ENVIRONMENTAL MANAGEMENT PLAN (EMP) REPORT

For

MYANMAR ASIA OPTICAL INTERNATIONAL COMPANY LIMITED

(FACTORY-1 & FACTORY-2)

Part-III

Plot No. (A2, A3, C1, C2), Mingaladon Industrial Park, Mingaladon Township, Yangon Region, Myanmar



PROPONENT



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PREPARED BY



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ENVIRONMENTAL MANAGEMENT PLAN (EMP) REPORT

For

MYANMAR ASIA OPTICAL INTERNATIONAL COMPANY LIMITED (FACTORY-1 and FACTORY-2) Part-III

Report Review Form

Report Title: Environmental Management	Plan (EMP) Report for Manufacturing of
all kinds of Lens, Lens U	Units, Optical Apparatuses, Electronic
Apparatuses, Self-focus Lens	Array (SLA), Plastic Parts for Electronic
Apparatuses and other Appa	aratuses on CMP Basis (Factory-1 and
Factory-2)	
Report Version: 00 Version	
Proponent:	Prepared by:
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Company Limited	Services Company Limited
Plot No. (A2, A3, C1, C2), Mingaladon	No. 115, Kanaung Min Thar Gyi Road,
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Prepared by: Daw Hnin Htet Htet Hlaing	Position: Environmental Specialist
Submitted Date: 21/03/2022	Signature:
Checked by: Daw Kyaw Kyaw Win	Position: Consultant
Checked Date: 29/04/2022	Signature:
Approved by: U Kyaw Soe Win	Position: Managing Director (ECD Registration No. 0019)
Date: 12/5/2022	Signature:

Summary: EMP Report

This document presents the environmental management plan (EMP) report as required for Manufacturing of all kinds of Lens, Lens Units, Optical Apparatuses, Electronic Apparatuses, Self-focus Lens Array (SLA), Plastic Parts for Electronic Apparatuses and other Apparatuses on CMP Basis (Factory-1 and Factory-2).

DOCUMENT CERTIFICATION AND DECLARATION

Green Myanmar Environmental Services Company Limited has prepared this Environmental Management Plan (EMP) report for Manufacturing of all kinds of Lens, Lens Units, Optical Apparatuses, Electronic Apparatuses, Self-focus Lens Array (SLA), Plastic Parts for Electronic Apparatuses and other Apparatuses on CMP Basis (Factory-1 and Factory-2) project.

I, the undersigned, (Director of Myanmar Asia Optical International Company Limited) as proponent of this project, certify that the particulars in this report are correct, true to the best of my knowledge and do hereby solemnly affirm to:

- Ensure the legal and other obligations are incorporated in designs, procedures and project controls,
- Communicate legal and other requirements to personnel and contractors accountable for compliance,
- Ensure all relevant legal and other requirements and associated documentation (e.g., licenses, permits, approval applications) are readily available on site to company personnel and consultants,
- Comply with all Myanmar laws, rules and regulations, including Clauses 14 and 15 of the Environmental Conservation Law (2012),
- Conduct a compliance audit at least annually and ensure there is a process in place to monitor on-going compliance with all legal and other requirements,
- Follow according to the Environmental Management Plan (EMP) and Environmental Monitoring Plan (EMoP),
- Submit the monitoring report prescribed in the schedule of the Environmental Management Plan to the Ministry every (6) month,
- Follow company's OHS policies,
- Implement CSR,
- Commit to minimize the impact of its activities on the environment during operation phase and decommissioning phase,
- Commit that the project will always comply fully with the commitments, mitigation measures, and plans in this EMP report.

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TWO IS NOT THE OWNER.					

Mr. Chen Han-Jung

Director

Signature

Name

Designation

Myanmar Asia Optical International Company Limited Plot No. (A2, A3, C1, C2), Mingaladon Industrial Park, Mingaladon Township, Yangon Region, Myanmar. Tel: +959-519 5601 Email: wolfgang_chen@asiaoptical.com.mm

Date: May 12-2022

COMMITMENT AND ACKNOWLEDGEMENT

An Environmental Management Plan (EMP) describes the environmental condition of a project, including potential impact, formulation of mitigation measures, and preparation of institutional requirements and environmental monitoring. This EMP report was prepared using information from the following sources:

- Review of selected literature, reports, and advisors,
- Meetings with several interested parties,
- The experience of the Environmental Team, and
- Other information solicited from baseline data and stakeholders.

We strongly commit

- ➤ the accuracy and completeness of the EMP; and
- that the EMP has been prepared in strict compliance with the applicable laws including this Procedure.

The EMP team is grateful to the project proponent – Myanmar Asia Optical International Company Limited - for commissioning us to conduct this Environmental Management Plan (EMP) Report in respect of the proposed project.

We further acknowledge the support, either direct or indirect, from the various parties who assisted the EMP team towards the successful completion of this report.

	ę	(Salitonmento)
Signature	:	ama
Name	: U Kyaw Soe Win	10 * CI-COD #1
Designation	: Managing Director	

Green Myanmar Environmental Services Co., Ltd.

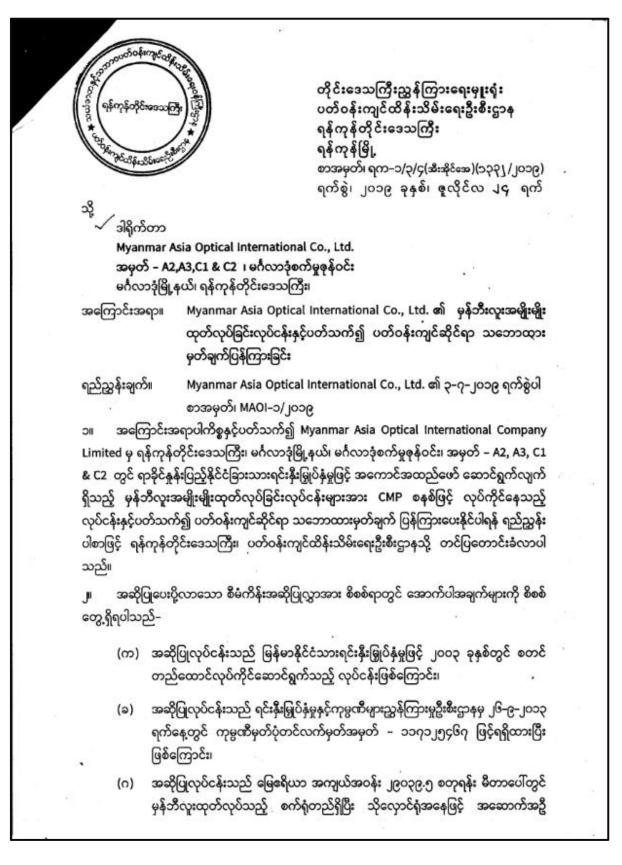
No. 115, Kanaung Min Thar Gyi Road, Hlaing Thar Yar Industrial City, Industrial Zone (1), Hlaing Thar Yar Township, Yangon Region, Myanmar. Tel: +959-897 978 296 Email: gmescompany@gmail.com, info@gmes-mm.com

Date: 12/5/2022

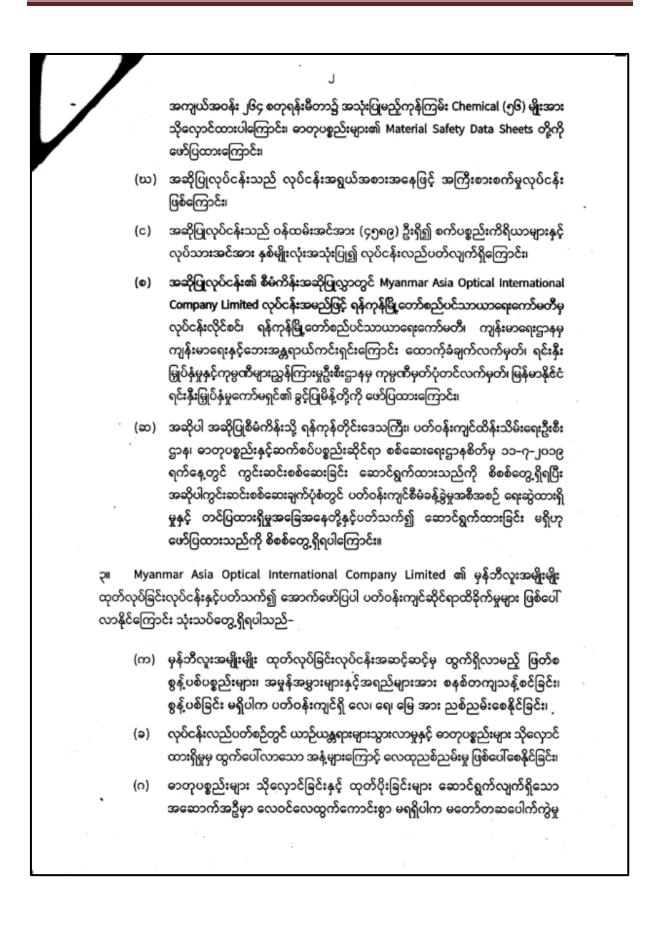
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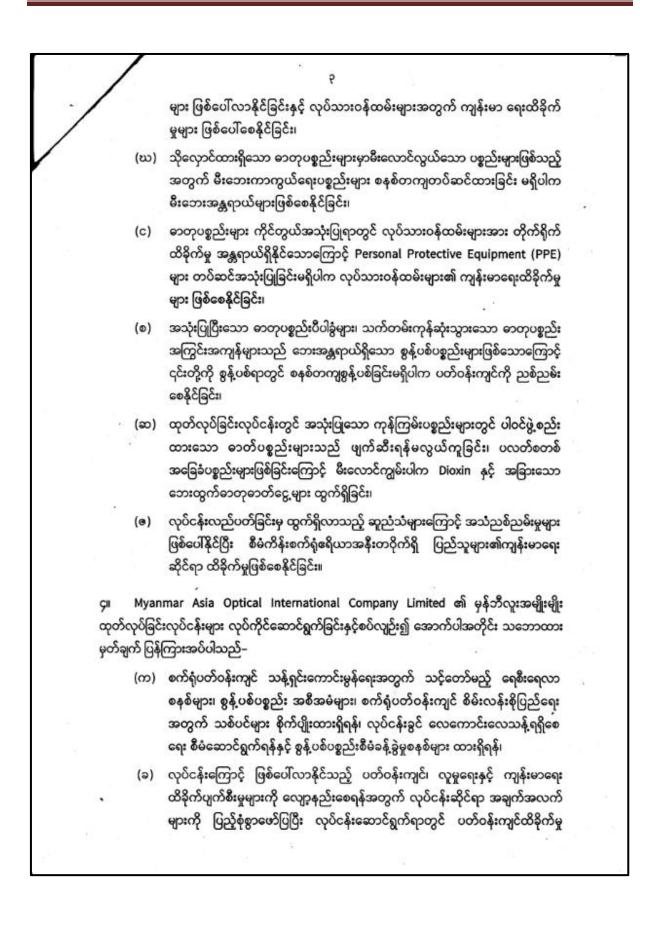
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Appendix 1 ECD's Instruction Letter to make EMP





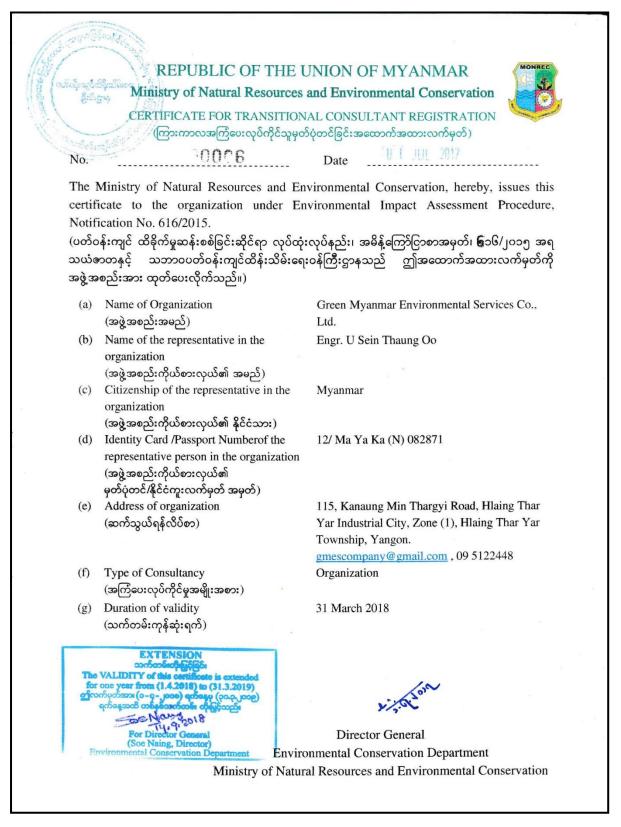
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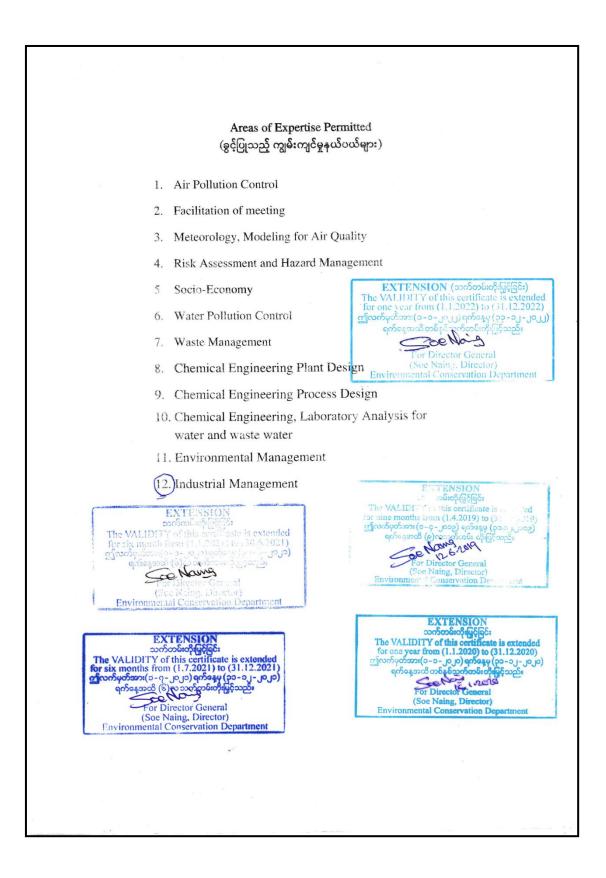
အနည်းဆုံးဖြစ်စေသည့် နည်းစနစ်များကို အသုံးပြုဆောင်ရွက်ရန်နှင့် အဆိုပြုလျှာ တွင် ဖော်ပြထားသည့် လူမှုရေးဆိုင်ရာ တာဝန်ခံ ဆောင်ရွက်မှု (Corporate Social Responsibility – CSR) အတွက် နှစ်စဉ် အသားတင်အမြတ်ငွေ၏ ၂ ရာခိုင်နှုန်းကို အသုံးပြုခြင်းအပါအဝင် ဆောင်ရွက်သွားမည့် ကတိကဝတ်များကို တိတိကျကျ လိုက်နာအကောင်အထည်ဖော်ဆောင်ရွက်ရန်၊ စီမံကိန်းဆောင်ရွက်မှုကြောင့် ပတ်ဝန်းကျင်၊ လူမှုရေးထိခိုက်မှု မဖြစ်ပေါ်စေရေး (0)(သို့မဟုတ်) ထိခိုက်မှု အနည်းဆုံးဖြစ်စေမည့် လုပ်ငန်းဆောင်ရွက်မည့် အစီအစဉ်၊ စွန့်ပစ်ပစ္စည်းစီမံခန့်ခွဲမှုအစီအစဉ်၊ စောင့်ကြည့်လေ့လာမည့်အစီအစဉ်၊ ပတ်ဝန်းကျင် ထိခိုက်မှုလျှော့ပါးရေး ဆောင်ရွက်မည့် လုပ်ငန်းများအတွက် သုံးစွဲမှုရန်ပုံငွေစသည် တို့ပါဝင်သည့် ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ် (Environmental Management Plan – EMP) ကို ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်းပါ အပိုဒ် ၆၃ (e) နှင့်အညီ ရေးဆွဲတင်ပြရန်နှင့် စိမံချက်ပါအတိုင်း အကောင်အထည်ဖော် ဆောင်ရွက်ရန်၊ (ဃ) စီမံကိန်းဆောင်ရွက်မည့် လုပ်ငန်းရှင်အနေဖြင့် ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ် (EMP) အစီရင်ခံစာ ရေးသားပြုစုရာတွင် ပြဋ္ဌာန်းထုတ်ပြန်ထားပြီးဖြစ်သော ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဥပဒေ၊ နည်းဥပဒေများ၊ ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ် ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်းနှင့် အမျိုးသားပတ်ဝန်းကျင်ဆိုင်ရာ အရည်အသွေး (ထုတ်လွှတ်မှု) လမ်းညွှန်ချက်များတွင် ဖော်ပြပါရှိသည့် လိုက်နာဆောင်ရွက်ရမည့် အချက်များ၊ လုပ်ထုံးလုပ်နည်းများ၊ လမ်းညွှန်ချက်များနှင့်အညီ လိုက်နာဆောင်ရွက် ရန်၊ (c) လုပ်ငန်းအဆင့်တိုင်းမှ ထွက်ရှိလာမည့် စွန့်ပစ်ရေဆိုးများကို စွန့်ပစ်ရေဆိုးသန့်စင် သည့် စနစ်တည်ထောင်၍ အမျိုးသားပတ်ဝန်းကျင်ဆိုင်ရာ အရည်အသွေး (ထုတ်လွှတ်မှု) လမ်းညွှန်ချက်များတွင် သတ်မှတ်ထားသည့် စံချိန်စံညွှန်းနှင့် အညီ စနစ်တကျ သန့်စင်စွန့်ပစ်သွားရန်၊ (စ) ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ် (EMP) တင်ပြရာတွင် တင်ပြရမည့် အစီအစဉ် အလိုက် လိုအပ်သည့်ပုံစံများ ဖြည့်စွက်၍ ပူးတွဲတင်ပြရန်၊ (ဆ) ရန်ကုန်တိုင်းဒေသကြီးအစိုးရအဖွဲ့၏ ကြီးကြပ်ကွပ်ကဲမှုဖြင့် လုပ်ငန်းဆောင်ရွက် မည့်နေရာဒေသတွင် နေထိုင်သော ဒေသခံပြည်သူများ၏ ဆန္ဒနှင့်သဘောထားများ ကို ရယူဆောင်ရွက်ရန်။ သို့ဖြစ်ပါ၍ စီမံကိန်းအဆိုပြုသူ Myanmar Asia Optical International Company **n**

Limited ၏ မှန်ဘီလူးအမျိုးမျိုး ထုတ်လုပ်ခြင်းလုပ်ငန်းများနှင့်ပတ်သက်၍ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှု

J အစီအစဉ် (Environmental Management Plan – EMP) အစီရင်ခံစာ ရေးဆွဲသွားရန်နှင့် အဆိုပါ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ် (Environmental Management Plan – EMP) အစီရင်ခံစာအား ရန်ကုန်တိုင်းဒေသကြီး၊ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာနသို့ အစိရင်ခံတင်ပြသွားရန် အကြောင်း ကြားပါသည်။ දේ මේ නොහැළි 19121Jose (ခင်သီတာတင်) ညွှန်ကြားရေးမျူး ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန ရန်ကုန်တိုင်းဒေသကြီး မိတ္တူကို တိုင်းဒေသကြီးဦးစီးဌာနမှူး၊ စက်မှုကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန၊ ရန်ကုန်တိုင်း ဒေသကြီး ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ရေးဌာနခွဲ၊ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန၊ ရန်ကုန်တိုင်း ဒေသကြီး ရုံးလက်ခံ၊ မျှောစာတွဲ

Appendix 2 Certificate for Transitional Consultant Registration of Organization

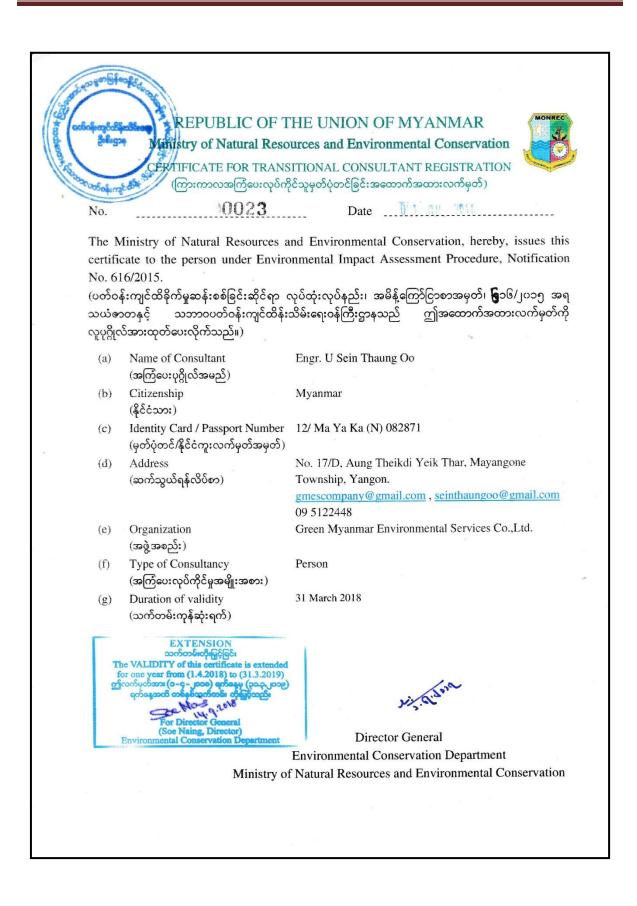




Appendix 3 Certificate for Transitional Consultant Registration of Personal



Areas of Expertise Permitted (ခွင့်ပြုသည့် ကျွမ်းကျင်မှုနယ်ပယ်များ) 1. Facilitation of meeting 2) Industrial Management EXTENSION EXTENSION သက်တမ်းတိုးမြှင့်ခြင်း The VALIDITY of this certification – extended for six month from (1.1.2021) ແ. 0.6 262.13 ຫຼາວຊາສາໝີ (ຣິ) လຸ သက်တမ်းတိုးမြှင့်သည်။ Tor Director General (Soe Naing, Director) Environmental Conservation Department သက်ထမ်းတိုးမြှင့်ခြင်း The VALIDITY of this certificate is extended For Director General (Soe Naing, Director) mental Conservation Department EXTENSION သက်တမ်းတိုးဖြှင့်ခြင်း The VALIDITY of this certificate is extended EXTENSION သက်တမ်းတိုးရှင်ခြင်း The VALIDITY of this certificate is extended for six months from (1.7.2021) to (31.12.2021) ຫຼາດກໍຍຸດອີສອາດອີ (ຣິເດ ຊຸລາດ້ອຍເດົາເອີຍີ່ເວັດ (20-0) - ເອດ ຊາດ້ອຊສອດອີ (ຣິເດ ຊຸລາດ້ອຍເດົາເອີຍີ່ເວັດ (20-0) ຊາດ້ອຊສອດອີ (ຣິເດ ຊຸລາດ້ອຍເດົາເອີຍີ່ເວັດ (20-0) Tor Director General (Soe Naing, Director) Environmental Conservation Department and VALDIA Y of this certificate is extended for one year from (1.1.2020) to (3.1.12,2020) ໂດບດິ່ນດໍອີສາ:(ລ-ວ-ມວ, 0) ຄາດີຣຣູຜ (ລ-ວ-ມ-ມວ, 0) ຄາດີຣຣູສາໝີ တစ်နှစ်အက်တမ်းတိုးမြှင့်သည်။ For Director General (Soc Naing, Director) Environmental Conservation Department EXTENSION (သက်ဘမ်းတိုးမြှင့်ခြင်း) The VALIDITY of this certificate is extended for one year from (1.1.2022) to (31.12.2022) ງໂດຍດ້ອງກໍສາກ:(ລ-ລ-ງວປປ) ရက်နေ့မှ (ຊວ-ວປ-ປປປ) ရက်နေ့အသိ ကစ်နှင့်သွက်တမ်းတိုးပြင့်သည်။ For Director General (See Nainy, Director) ဤလက်မှာ (See Naing, Director) Environmental Conservation Department



Areas of Expertise Permitted (ခွင့်ပြုသည့် ကျွမ်းကျင်မှုနယ်ပယ်များ) 1-18-12-1 1. Air Pollution Control B^{all} and a second second 2) Chemical Engineering Process Design, Industrial Management EXTENSION သက်တမ်းတိုးမြှင့်ရြ The VALIDITY of this certificate is extended ကြာ nine months from (1.4.2019) to (31.12.2019) ကျလက်မှတ်အား (၁-၄-၂၀၁၉) ရက်နေ့မှ (၃၀.၁၂.၂၀၁၉) ရက်နေ့အထိ (၉)လသက်ထမ်း တိုးရှိမှုသည်။ EXTENSION ωνήσοδιορήβεζεβό: The VALIDITY of this certificate is extended for six month from (1.1.2021) to 30.6.2021) σμονήφοβασί(2)-2-30.00 κήσε διοσί(2)-30.6.2021) σμονήφοβασί(2)-2-30.00 κήσε διοσί(2)-30.00 κη διοσί(2)-30.00 κήσε διοσί(2)-30.00 κήσε διοσί(2)-30. For Director General (Soe Naing, Director) mental Conservation Environm (Soe Naing, Director) Environmental Conservation Department EXTENSION သက်တစ်းတိုးမြှင့်ခြင်း The VALIDITY of this certificate is extended for one year from (1.1.2020) to (31.12.2020) ຼາງໂດກດິຍຸດາວາງ (20.20) ອຸດກິດຊຸສອເຜີ ແລ້ວ ເຊິ່ງ (20.20) ຈຸດກິດຊຸສອເຜີ ແລ້ວ ເຊິ່ງ (20.20) ຈຸດກິດຊຸລອເຊີ (20.20) EXTENSION သက်တမ်းတိုးမြှင့်ခြင်း The VALIDITY of this certificate is extended for six months from (1.7.2021) to (31.12.2021) ဤလက်မှတ်အား(၁- ໆ - ၂၁၂၁) ရက်နေ့အထိ (၆)ထူ သင်္ခာတမ်းတိုးမြှင့်သည်။ Tor Director General (Soe Naing, Director) Environmental Conservation Department (Soe Naing, Director) Environmental Conservation Department EXTENSION (သက်တမ်းတိုးဖြင့်ခြင်း) The VALIDITY of this certificate is extended for one year from (1.1.2022) to (31.12.2022) ဤလက်မှာဘိအား(၁-ວ-၂၀၂၂) ရက်နေ့မှ (ຄວ-ວງ-၂၀၂၂) ရက်နေ့အထိတစ်နှင့်သက်တမ်းတိုးဖြင့်သည်။ For Director General (Soe Naing, Director) Environmental Conservation Department

64 **REPUBLIC OF THE UNION OF MYANMAR** Ministry of Natural Resources and Environmental Conservation CERTIFICATE FOR TRANSITIONAL CONSULTANT REGISTRATION (ကြားကာလအကြံပေးလုပ်ကိုင်သူမှတ်ပုံတင်ခြင်းအထောက်အထားလက်မှတ်) Sofina 10021 Date 71 111 7117 No. The Ministry of Natural Resources and Environmental Conservation, hereby, issues this certificate to the person under Environmental Impact Assessment Procedure, Notification No. 616/2015. (ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း၊ အမိန့်ကြော်ငြာစာအမှတ်၊ ၆၀၂၀၁၅ အရ ဤအထောက်အထားလက်မှတ်ကို သယ်ဇာတနှင့် သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဝန်ကြီးဌာနသည် လူပုဂ္ဂိုလ်အားထုတ်ပေးလိုက်သည်။) Name of Consultant (a) Engr. Daw Khin Swe Aye (အကြံပေးပုဂ္ဂိုလ်အမည်) (b) Citizenship Myanmar (နိုင်ငံသား) Identity Card / Passport Number 12/Sa Kha Na (N) 017708 (c) (မှတ်ပုံတင်/နိုင်ငံကူးလက်မှတ် အမှတ်) Address 14 B, Wai Lu Wun Main Street, Sanchaung, (d) (ဆက်သွယ်ရန်လိပ်စာ) Yangon. khinsweaye.daw@gmail.com, 09 5015475 Organization Green Myanmar Environmental Services Co., Ltd. (e) (အဖွဲ့အစည်း) (f) Type of Consultancy Person (အကြံပေးလုပ်ကိုင်မှုအမျိုးအစား) Duration of validity 31 March 2018 (g) (သက်တမ်းကုန်ဆုံးရက်) EXTENSION VALIDITY of 4:5.9.102 **Director General** Environmental Conservation Department Ministry of Natural Resources and Environmental Conservation

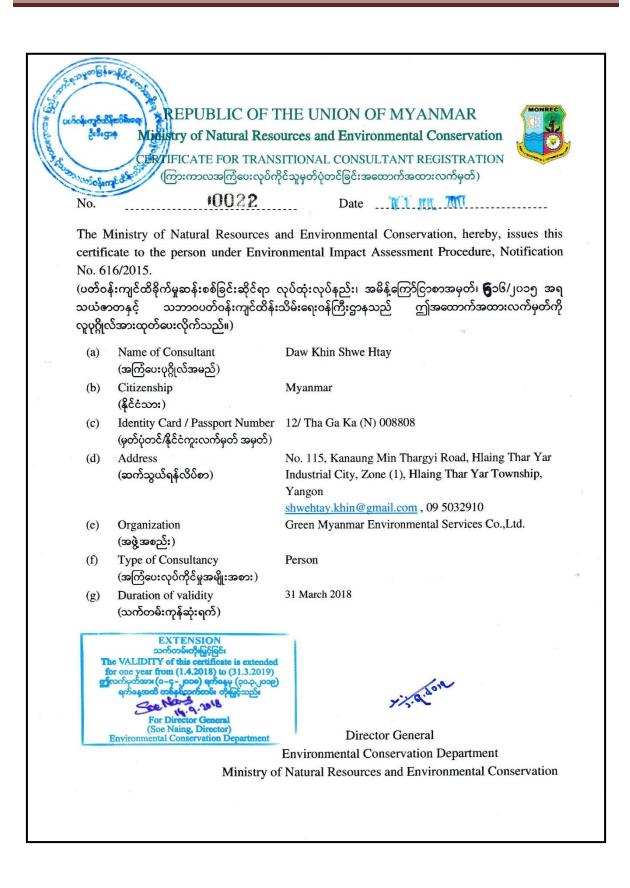
Areas of Expertise Permitted (ခွင့်ပြုသည့် ကျွမ်းကျင်မှုနယ်ပယ်များ) 1. Air Pollution Control 2. Waste Management EXTENSION మరోరార్: స్పోస్ట్రార్ల్ స్పోస్ట్రార్ల్ The VALIDITY of this certificate is extended The VALIDITY of this certificate is extended for nine months from (1.4.2019) to (31.12.2019) ຊາດາວົ້ອະດີສາສ (ລ- ၄- ງວດຍູ) ရက်ခန္နမှ (ວລວ ງ. ງວດຍູ) ရက်ခန္နအထိ (ອາດາລັດກິດທີ່ ດຳເຜີ ເຮັດ ດຳອີເຊັສາຜີ (ອາດາລັດກິດທີ່ ດຳເຜີ ເຮັດ For Director General EXTENSION သက်တမ်းတိုးမြှင့်ခြင်း The VALIDITY of this certificate is extended for six month from (1.1.2021) to (30.6.2021) ຫຼືໃນດັ່ງຜູ້ກໍ່ສາຍເວົ້າ- ງ0.30 ຄາດຂໍ້ລູຍ (20-5- ງ0.30) ອຸກາລະສາຊີ (6) ເນ ແຕ່ກ້ອງອີ້ນດ້າງຍິ່ງ ແມ່ນ - For Director General (Soe Naing, Director) Environmental Conservation Department EXTENSION ng. D **Environmental Conservation Department** EXTENSION သက်တမ်းတိုးမြှင့်ခြင်း The VALIDITY of this certificate is extended for one year from (1.1.2020) to (31.12.2020) ကိုလ်မှတ်အား(၁-၁-၂၀၂၀) ရက်နေနာ (၃၁-၁၂-၂၀၂၀) ရက်နေအထိတစ်နှစ်လက်တမ်းတိုးမြှင့်သည်။ For Director General (Soe Naing, Director) Environmental Concernation Deservation EXTENSION သက်တမ်းတိုးဖြင့်ခြင်း The VALIDITY of this certificate is extended for six months from (1.7.2021) to (31.12.2021) ຕົ້າດກັ່ນຈັດສາວເ(ວ-ດ-ເວ)-ເວເວ) ရက်နေအာင် (6) ດະ သင်တမ်းတိုးမြှင့်သည်။ For Director General (See Naing, Director) Environmental Conservation Department (Soe Naing, Director) Environmental Conservation Department (Soc Naing, Director) Environmental Conservation Department

maleal **REPUBLIC OF THE UNION OF MYANMAR** Ministry of Natural Resources and Environmental Conservation **FRATIFICATE FOR TRANSITIONAL CONSULTANT REGISTRATION** (ကြားကာလအကြံပေးလုပ်ကိုင်သူမှတ်ပုံတင်ခြင်းအထောက်အထားလက်မှတ်) Date 11 11 2017 10028 No. The Ministry of Natural Resources and Environmental Conservation, hereby, issues this certificate to the person under Environmental Impact Assessment Procedure, Notification No. 616/2015. (ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း၊ အမိန့်ကြော်ငြာစာအမှတ်၊ စြာ၁၆/၂၀၁၅ အရ ဤအထောက်အထားလက်မှတ်ကို သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဝန်ကြီးဌာနသည် သယံဓာတနှင့် လူပုဂ္ဂိုလ်အားထုတ်ပေးလိုက်သည်။) Name of Consultant Prof. Engr. Daw Tin May Soe (a) (အကြံပေးပုဂ္ဂိုလ်အမည်) Citizenship Myanmar (b) (နိုင်ငံသား) Identity Card / Passport Number 12/ Ka Ma Ya (N) 016072 (c) (မှတ်ပုံတင်/နိုင်ငံကူးလက်မှတ် အမှတ်) 115, Kanaung Min Thargyi Road, Hlaing Thar (d) Address Yar Industrial City, Zone (1), Hlaing Thar Yar (ဆက်သွယ်ရန်လိပ်စာ) Township, Yangon. tinmaysoe949@gmail.com, 09 5077081 (e) Organization Green Myanmar Environmental Services Co., (အဖွဲ့အစည်း) Ltd. Type of Consultancy Person (f) (အကြံပေးလုပ်ကိုင်မှုအမျိုးအစား) Duration of validity 31 March 2018 (g) (သက်တမ်းကုန်ဆုံးရက်) EXTENSIO **Director General** o D **Environmental Conservation Department** Ministry of Natural Resources and Environmental Conservation

th. Areas of Expertise Permitted (ခွင့်ပြုသည့် ကျွမ်းကျင်မှုနယ်ပယ်များ) 1. Water Pollution Control 2. Chemical Engineering Process Design EXTENSION သက်တင်းတိုးမြန်ခြင်း The VALIDITY of this certificate is extended for six month from (1.1.2021) to (30.6.2021) ຫຼາດກໍ່ຈຸກສາດ (6)ດາລາກິດຕໍ່ເຄິ່ງໃຫຼ່ຈິດມູໂ ຈາກຈາກ (6)ດາລາກິດຕໍ່ເຄິ່ງໃຫຼ່ຈິດມູໂ For Director General (Soe Naing, Director) Environmental Conservation Department EXTENSION ວວຈີວອລິເອຈິເຜີຍູໂອຣີຣ໌ເ The VALIDITY of this certificate is extended for nine months from (1.4.2019) to (31.12.2019) လက်မှတ်အား (၁–၄–၂၀၁၉) ရက်နေ့မှ (၃၀.၁၂.၂၀၁၉) ရက်နေ့ဘတိ (၉)လသက်ထွမ်း စဉ်သည်။ 2 FOND 9105.3 ector C Naing, Dire (Soe **Environmental** Cons EXTENSION သက်တစ်းတိုးမြှင့်ခြင်း The VALIDITY of this certificate is extended for one year from (1.1.2020) to (31.12.2020) ဤလက်မှတ်အား(၁-၁-၂၁၂၀) ရက်နေ့မှ (၃၁-၁၂-၂၀၂၀) ာစုနှစ်သက်တမ်းတိုး Director Gen Nain မြင်သည်။ (Soe Naing, Director) Environmental Conservation Department EXTENSION (ລດຽວຍິເວຊິເຊີຣິອີຣ໌ເ) The VALIDITY of this certificate is extended for one year from (1.1.2022) to (31.12.2022) ງຄິດຕໍ່ອຸລະສາລາວ ຕາຍເປັນ ອີກອີຣຣູຊ (ລວ - ວຸ - ປອມ) ດຸດທີ່ຣຣູລາວລີ ຕາຍເຮັດເຮັດເຮັດອີຣິເຊີຣ໌ເລີຣ໌ ອີກອີຣຣູລາວລີ ຕາຍເຮັດອີຣິອີຣ໌ເຊີຣ໌ເລີຣ໌ ဤလက်္ခ For Direc - 2022 ctor General (See Naing, Director) Environmental Conservation Department

REPUBLIC OF THE UNION OF MYANMAR Ministry of Natural Resources and Environmental Conservation CERTIFICATE FOR TRANSITIONAL CONSULTANT REGISTRATION (ကြားကာလအကြံပေးလုပ်ကိုင်သူမှတ်ပုံတင်ခြင်းအထောက်အထားလက်မှတ်) +0026 Date No. The Ministry of Natural Resources and Environmental Conservation, hereby, issues this certificate to the person under Environmental Impact Assessment Procedure, Notification No. 616/2015. (ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း၊ အမိန့်ကြော်ငြာစာအမှတ်၊ ရြာ၆/၂၀၁၅ အရ ဤအထောက်အထားလက်မှတ်ကို သယံဇာတနှင့် သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဝန်ကြီးဌာနသည် လူပုဂ္ဂိုလ်အားထုတ်ပေးလိုက်သည်။) Name of Consultant U Myo Myint (a) (အကြံပေးပုဂ္ဂိုလ်အမည်) Citizenship (b) Myanmar (နိုင်ငံသား) Identity Card / Passport Number 12/ Pa Ba Ta (N) 015315 (c) (မှတ်ပုံတင်/နိုင်ငံကူးလက်မှတ်အမှတ်) 115, Kanaung Min Thargyi Road, Hlaing Thar Yar Address (d) (ဆက်သွယ်ရန်လိပ်စာ) Industrial City, Zone (1), Hlaing Thar Yar Township, Yangon. gmescompany@gmail.com, 09 2012723 Green Myanmar Environmental Services Co., Ltd. Organization (e) (အဖွဲ့အစည်း) Type of Consultancy (f) Person (အကြံပေးလုပ်ကိုင်မှုအမျိုးအစား) Duration of validity 31 March 2018 (g) (သက်တမ်းကုန်ဆုံးရက်) EXTENSIO The VALIDI to (31.3.2019) **Director General Environmental Conservation Department** Ministry of Natural Resources and Environmental Conservation

Areas of Expertise Permitted (ခွင့်ပြုသည့် ကျွမ်းကျင်မှုနယ်ပယ်များ) 1) Chemical Engineering, Laboratory Analysis for Water and Wastewater 14.160 EXTENSION EXTENSION သက်တစ်းတိုးရှင်ခြင်း The VALIDITY of this certificate is extended EXTENSION သက်တမီးတိုးဖြင့်ခြင်း The VALIDITY of this certificate is extended for six month from (1.1.2020) ແ (30.6.2021) ຫຼາວຍຸລາດ (30.000) ເຊິ່ງ (2000) ແລະ (2000) ຫຼາວຍຸລາດ (3000) ແລະ (2000) ກັດ Di. netor General (Soc Naing, Director) Environmental Conservation Department The VALIDITY of this certificate is extended for nine months from (1.4.2019) to (31.12.2019) σ(ασδφόδαστ (α-9-μοσε) ασδαεφο (20.0 μ.μοσε) ασδαεφασδ (ε) αφασδοστέι αρτιβέρωσδι For Director General (Soe Naing, Director) Environmental Conservation Department Environmental Conservation Department EXTENSION သက်တမ်းတိုးဖြင့်ခြင်း The VALIDITY of this certificate is extended for one year from (1.1.2020) to (31.12.2020) ကိုလက်မှတ်အား(၁-၁-၂၀၂၀) ရက်နေ့မှ (၃၀-၁၂-၂၀၂၀) ရက်နေ့အထိ တစ်နှစ်သက်တမ်းတိုးဖြင့်သည်။ For Director General (Soe Naing, Director) Environmental Conservation Department EXTENSION သက်တမ်းတိုးမြှင့်ခြင်း The VALIDITY of this certificate is extended for six months from (1.7.2021) to (31.12.2021) ຫຼັດດກໍ່မຸတ်အား(ວ- - - ງ - ງ ວ) ວ) ရက်နေမှ (၃ວ - ວ ງ - ງ ວ) ວ) ရက်နေအထိ (၆) သူသက်တမ်းတိုးမြှင့်သည်။ For Director General (Sne Naing Director) (Soe Naing, Director) Environmental Conservation Department EXTENSION (သက်တမ်းတိုးမြှင့်ခြင်း) The VALIDITY of this certificate is extended for one year from (1.1.2022) to (31.12.2022) ອົງເວກັນຜົ້ອສາ:(ວ-ວ-ງ-ງປ) ປ) ທີ່ດ້ອຍ (20-ວ-ງ-ງປ) ປ) ທີ່ກໍດ້ອຍສາວພິກຍໍຍູ່ຄົວນກ່ອນເທີງເບີ່ຼ່ວມນີ້ ທີ່ກ່ອຍ ເພິ່ງ ທີ່ມີ For Director General (Soe Naine, Director) (Soe Naing, Director) Environmental Conservation Department



Areas of Expertise Permitted (ခွင့်ပြုသည့် ကျွမ်းကျင်မှုနယ်ပယ်များ) 1. Water Pollution Control 2. Waste Management **EXTENSION** EXTENSION သວກວວລິເອຈິເຜີດີເຮັດ The VALIDITY of this certificate is extended for nine months from (1.4.2019) to (31.12.2019) ຫຼົງແກ້ບຸດົວສາ: (ວ-၄- ງວວຍ) ရက်နေမှ (ວວລ ງ. ງວວຍ) ຈຸກົອຊສວຜີ (ຍູງແນວກັດວິເະ ດີ່າເຜີຍິ່ງແມ່ນ For Director General (Soe Naing, Director) Environmental Conservation Department EXTENSION သက်တမ်းတိုးဖြင့်ခြင်း The VALIDITY of this certificate is extended for six month from (1.1.2021) to (30.6.2021) ຫຼາດກ່ອງສອງສາດ (6)ດະ ນາກາງຮູ້ອາດາະຫຼີງໂດຍ ແລະ ຖ້າຍ ເປັນເຊັ້ນ ແລະ ເປັນເຊັ້ນ ແລະ ກາດ Director General (Soe Naing, Director) Environmental Conservation Department Environ ntal Conservation Department EXTENSION သက်တမ်းတိုးမြှင့်ခြင်း The VALIDITY of this certificate is extended for one year from (1.1.2020) to (31.12.2020) ဤလက်မှတ်အား(၁-၁-၂၁၂၀) ရက်နေမှ (၃၀-၁၂-၂၀၂၀) ရက်နေအထိ တစ်နှစ်တက်တမ်းတိုးမြှင့်သည်။ For Director General (See Naing, Director) Environmental Conservation Department EXTENSION သက်တမ်းတိုးမြှင့်ခြင်း The VALIDITY of this certificate is extended for six months from (1.7.2021) to (31.12.2021) ကိုလက်မှတ်အား(၁-၇-၂၀၂၀) ရက်နေမှ (၃၀-၁-၂၀၂၀) ရက်နေအထိ (၆)လ သက်တမ်းတိုးမြှင့်သည်။ For Director General (Soe Naine, Director) Environmental Conservation Department (Soe Naing, Director) Environmental Conservation Department EXTENSION (သက်တမ်းတိုးဖြင့်ခြင်း) The VALIDITY of this certificate is extended for one year from (1.1.2022) to (31.12.2022) ဤလက်မှတ်အား(၁-ວ- ၂၁၂၂) ရက်နေ့မှ (ວວ-ວ၂-၂၀၂၂) ရက်နေ့အထိ တစ်နစ်သက်တမ်းတိုးဖြင့်သည်။ For Director General (Soe Naing, Director) (Soe Naing, Director) Environmental Conservation Department



TSH12 Areas of Expertise Permitted (ခွင့်ပြုသည့် ကျွမ်းကျင်မှုနယ်ပယ်များ) Socio-Economy 1. EXTENSION LA I LIDIUMသက်တစ်းတိုးမြှင်ခြင်း The VALIDITY of this certificate is extended for nine months from (1.4.2019) to (31.12.2019) ຫຼົ່າလက်မှတ်အား (၁-၄-၂၀၁၉) ရက်နေ့မှ (၉.၁.၂၂၀၁၉) ရက်နေ့အထိ (၉)လာထိုတစ်း တိုးမြှင့်သည်။ EXTENSION သက်တမ်းတိုးဖြန်ခြင်း The VALIDITY of this certificate is extended For Director General General The VALIDITY of this certificate is extended for six month from (1.1.2021) to . 30.6.2021) ຫຼັດເວລິຍຸທີ່ເອັດເຊີ້ອງ ເປັນເຊື້ອງ ເປັນເຊື້ອງ ເປັນ ຄຸດໂລຊອດທີ່ (ອີໂດລ ແກ້ທີ່ຊາຍີ່ເອັດເຊັ້ອງ ອີໂດລຊອດທີ່ (ອີໂດລ ແກ້ທີ່ຊາຍີ່ເອັດເຊັ້ອງ For Director General (Soe Naing, Director) Environmental Conservation Department (Soe Naing, Director) Envir ental Conservation D tment EXTENSION သက်တစ်းတိုးရှိုင်ခြင်း The VALIDITY of this certificate is extended for one year from (1.1.2020) to (31.12.2020) ဤလက်မှတ်အား(၁-၁-၂၀၂၀) ရက်နေ့မှ (၃၀-၁၂-၂၀၂၀) ရက်နေ့အထိတစ်နှစ်သက်တစ်းတိုးရြှင့်သည်။ For Director General (See Naine, Director) EXTENSION သက်တမ်းတိုးမြှင့်ခြင်း The VALIDITY of this certificate is extended for six months from (1.7.2021) to (31.12.2021) ຫຼັດເກີຍອຸດອີສາ:(ວ-ດ-ງ-0_0) ອຸດອີສອຸ(ຄວ-ວ-0_0-0_0) ອຸດກົຍຮຸສອຜີ (၆) (၃ သက္ခံတမ်းတိုးမြှင့်သည်။ For Director General (Soe Naing, Director) (Soe Naing, Director) Environmental Conservation Department (Soe Naing, Director) Environmental Conservation Department EXTENSION (သက်တမ်းတိုးရှင့်ခြင်း) The VALIDITY of this certificate is extended for one year from (1.1.2022) to (31.12.2022) ဤလက်မှတ်အား(၁-၁-၂၀၂၂) ရက်နေ့မှ (၃၁-၁၂-၂၀၂၂) ရက်နေ့အထိ ကစ်နှစ်သက်တမ်းတိုးဖြင့်သည်။ For Director General (Soe Naing, Director) Environmental Conservation Department



Appendix 4 Certificate of Incorporation

Appendix 5 MIC Permit

	Form (2) 4735
	The Myanmar Investment Commission
	12.2.2003
	PERMIT
	I LININI I
	12 PERBUILARY 2007
Permit No.	377/2003 Date 12 FEBRUARY 2003
	Ayanmar Investment Commission issues this Permit under Section 10
of the Unio	on of Myanmar Foreign Investment Law -
(a)	Name of Promoter MR. WISEMAN HSU
(b)	Citizenship CHINESE
(c)	Address 605/99, CITY VILLAGE, BANGPOO INDUSTRY ZONE,
	SAMI/TPRAKARN. THAILAND
	Name and address of principal organization GREAT CHINA INVESTMENT
(d)	Name and address of principal organization
	BT CAR ON DA TAM HING STREET KOWLOON BAY. HONG KONG
(e)	Place of incorporation
	HONG KONG
(İ)	Type of business in which investment is to be made MANUFACTURING OF ALL KINDS
	OF LENS, LENS UNITS, OPTICAL APPARATUSES, ELLO TRONIC
(g)	APPARATUSES AND OTHER APPARATUSES ON C.M.P BASIS Place (s) at which investment is permitted
	PLOT NO. 4-2 & 4-3 MINGALADON INDUSTRIAL PARK, MINGALADON =
	TOWNSHIP YANGON US\$ 12.88 MILLION(EQUITY US\$12.88 MILLION) Amount of foreign capital
	Period for bringing in foreign capital
(i)	OF MYANMAR INVESTMENT COMMISSION
(j)	Total amount of capital (Kyat) .EQUIVALENT IN KYAT OF US \$
÷	(12.88) MILLION
(k)	Permitted duration of investment <u>45 YEARS</u>
(1)	Name of the economic organization to be formed in Myanmar
	MYANMAR ASIA OPTICAL INTERNATIONAL COMPANY LIMITED
8	
\mathbb{R}^{2}	1 hame
1	
<u>e</u>	Chairman
	The Myanmar Investment Commission

မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင် ခွင့် ပြ မိန့် ခွင့်ပြမိန့် အမှတ် ၃၅၅/၂၀၀၃ ရက်၊ ပြည်ထောင်စုမြန်မာနိုင်ငံတော် နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု ဥပဒေပုဒ်မ ၁၀ အရ ဤခွင့်ပြုမိန့်ကို မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမှု ကော်မရှင်က ထုတ်ပေးလိုက်သည် – (က) ကမကထပြုသူ၏အမည် .MR WISEMAN HSU (ခ) မည်သည့်နိုင်ငံသား _____CHINESE (n) as ηδαδο 605/99, CITY VILLAGE, BANGPOO INDUSTRY ZONE, SAMUTPRAKARN, THALLAND (ல) மச்சுகழ்கூலிக்கல் GREAT CHINA INVESTMENT ENTERPRISE HOLDINGS LIMITED, ROOM 1505, 15FLOOR, METRO CENTRE, BLOCK 2, NO. 2 LAM HING STREET, KOWLOON BAY, HONG KONG (c) ဖွဲ့စည်းရာအရပ် HONG KONG (စ) ရင်းနှီးမြှုပ်နှံမှုပြုလုပ်မည့်လုပ်ငန်းအမျိုးအစား CMP စ န စီဖြင့်မွ န်ဘီလူးအ မျိုး မျိုး ထုတ်လုပ်ခြင်း လုပ်ငန်း (ဆ) ရင်းနှီးမြှုပ်နှံမှုပြုလုပ်ခွင့်ပြုသည့်အရပ်ဒေသ(များ) မြောက္တက်ိအ မှတ် (အေ – ၂) နှင့် (အေ – ၃) မ ဂီလ်ဘင်္ခိုစက်မှုဇုံ၊ မီ ဂီလ်ဘင်္ခုမြို့နယ်၊ ဂုန်က္ န်တိုင်း (e) $\hat{\xi}$ \hat{c} \hat{c} \hat{g} \hat{c} \hat{g} \hat{c} \hat{a} \hat{c} \hat{c} \hat{d} \hat{m} \hat{s} \hat{c} \hat{c} \hat{n} \hat{a} \hat{c} \hat{c} \hat{d} \hat{m} \hat{c} $\hat{c$ ကော် ၁မ ၇ ငိမ္ခ်ခွင့်ပြုံမိန့် ရပြီး (၂၂) နှစ်အထွင်း (ည) စုစုပေါင်း မတည်ငွေရင်း ပမာဏ (ကျပ်) သာ နေ ရီက နီ ေဒါ်လ ၁ (၁၂ , ဂ ဂ) သန်းနှင့် ညီမျှ သောမြ နီ မဘ်ကျစ် ငွေ (ဋ) (ဌ) မြန်မာနိုင်ငံတွင် ဖွဲ့စည်းမည့် စီးပွားရေးအဖွဲ့ အစည်းအမည် MYANMAR ASIA OPTICAL INTERNATIONAL COMPANY LIMITED me and MIC Reim 585 မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံ မှုကော်မရင်

Τ, ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် မြန်မာနိုင်ငံရင်းနီးမြှုပ်နှံမှုကော်မရှင် ရုံးအမှတ်(၃၂)၊ နေပြည်တော် စာအမှတ်၊ ရက-၇(ခ)/န- ၃၂၄/၂၀၁၃(၂ (၅၅၄-^၃) ဖက်(စ်) ၉၅-၆၇-၄၀၆၂၀၈ ရက်စွဲ၊ ၂၀၁၃ ခုနှစ် အောက်တိုဘာလ ၂ ှရက် တယ်လီဖုန်း-၀၆၇-၄၀၆၁၇၄ Myanmar Asia Optical International Co., Ltd. မှ ထုတ်ကုန် ပစ္စည်း အကြောင်းအရာ။ အသစ်အား ထပ်မံထုတ်လုပ်ခွင့်ပြုရန်ကိစ္စ Myanmar Asia Optical International Co., Ltd. ຄົງ-၉-၂၀၁၃ ရည်ညွှန်းချက် ။ ရက်စွဲပါစာ Myanmar Asia Optical International Co., Ltd. မှ ထုတ်ကုန်ပစ္စည်းအသစ် ထပ်မံ ထုတ်လုပ်ခွင့်ပြုပါရန် ရည်ညွှန်းပါစာဖြင့် တင်ပြလာသည့်ကိစ္စ နှင့် စပ်လျဥ်း၍ Self-Foc Lens Array(SLA)(Glass Tube) အမည်ရှိသော ထုတ်ကုန်ပစ္စည်းအသစ်အား ထပ်မံထုတ်လုပ်ခွင့်ပြု ကြောင်း အကြောင်းကြားပါသည်။ ဥက္ကဌ(ကိုယ်စား) (အောင်နိုင်ဦး၊ ညွှန်ကြားရေးမှူးခု မန်နေဂျင်းဒါရိုက်တာ Myanmar Asia Optical International Co., Ltd. မိတ္တူကို ရုံးလက်ခံ/မျှောစာတွဲ။

Appendix 6 MIC Permit for SLA

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် မြန်မာနိုင်ငံရင်းနှီးမြှုပ်နှံမူကော်မရှင် အမှတ်(၁)၊သစ္စာလမ်း၊ ရန်ကင်းမြို့နယ်၊ ရန်ကုန်မြို့ စာအမှတ်၊ ရက-၉ / ၁ / ၂၀၁၅ (၀၀၂ ၎၆) ရက်စွဲ၊ ၂၀၁၅ ခုနှစ် ဖေဖော်ဝါရီလ ၉ ရက် အကြောင်းအရာ။ Myanmar Asia Optical International Company Limited 9 မူလတိုးမြှင့်ပြင်ဆင်ခွင့်ပြုထားသည့် ရင်းနှီးမြှုပ်နှံမှုပမာဏအား အမှန် တကယ်ထည့်ဝင်သည့် တန်ဖိုးသို့ လျှော့ချ၍ ထုတ်ကုန်အသစ်ထုတ်လုပ်ရန် ရင်းနှီးမြှုပ်နှံမှုပမာဏ တိုးမြှင့်ခွင့်တင်ပြလာခြင်းကိစ္စ ရည် ညွှန်း ချက် ။ Myanmar Asia Optical International Company Limited en ၂၀၁၄ ခုနှစ် ဒီဇင်ဘာလ ၃၁ ရက်စွဲပါစာ Myanmar Asia Optical International Company Limited မှ ရည်ညွှန်းပါစာဖြင့် တင်ပြလာသည့်ကိစ္စနှင့် စပ်လျဥ်း၍ ၂၀၁၅ ခုနှစ် ဇန်နဝါရီလ ၃၁ ရက်နေ့တွင်ကျင်းပသော မြန်မာ နိုင်ငံရင်းနှီးမြှုပ်နှံမှုကော်မရှင်၏ ၂ /၂၀၁၅ ကြိမ်မြောက်အစည်းအဝေးမှ အောက်ပါအတိုင်း ဆုံးဖြတ်ခဲ့ပါသည်-(က) ရင်းနှီးမြှုပ်နှံမှုနှစ်အလိုက်ပြင်ဆင်ချက် စုစုပေါင်းအမေရိကန်ဒေါ်လာ ၂၇.၈၁ သန်းအနက်မှ လက်ကျန်တန်ဖိုး အမေရိကန်ဒေါ်လာ ၁၆.၇၁ သန်းအား တင်သွင်းခြင်းမပြုတော့ဘဲ မတည်ငွေရင်းပမာဏအား အမေရိကန်ဒေါ်လာ ၁၁.၁၁ သန်းအဖြစ် လျှော့ချပြီး ထုတ်ကုန်ပစ္စည်းအသစ် Self-Foc Lens Array (SLA) (Glass Tube) ထုတ်လုပ်ရန်စက်ပစ္စည်းတန်ဖိုး အမေရိကန်ဒေါ်လာ ၁.၈၁ သန်း တိုးမြှင့်၍ စုစုပေါင်း အမေရိကန်ဒေါ်လာ ၁၂.၉၂ သန်းသို့ တိုးမြှင့်ခွင့်ပြုရန်။ (ခ) အဆိုပါတိုးမြှင့်ရင်းနှီးမြှုပ်နှံမှုမှ Air Duct with Accessories (Complete Set) အပါအဝင် စက်ပစ္စည်း ၄၃ မျိုး တန်ဖိုး အမေရိကန်ဒေါ် လာ ၁၈၁၇၃၃၀.၀၅ အား အခွန်အကောက်ကင်းလွတ်ခွင့်ဖြင့် တင်သွင်းခွင့်ပြုရန်။ အဆိုပါကိစ္စနှင့်စပ်လျဥ်း၍ ခွင့်ပြုမိန့် (Permit) မူရင်းတွင်ပြင်ဆင်ရန်အတွက် ဝန်ဆောင် Ju စရိတ်အဖြစ် ကျပ် ၂၅၀,၀၀၀ (ကျပ် နှစ်သိန်းငါးသောင်းတိတိ) အား ရင်းနှီးမြှုပ်နှံမှု နှင့် ကုမ္ပဏီများ

ညွှန်ကြားမှုဦးစီးဌာနသို့ ပေးသွင်းပြီးကြောင်း ချလံမူရင်း နှင့် ခွင့်ပြုမိန့် (Permit) မူရင်းကို ကော်မရှင်သို့ ပေးပို့ပါရန် အကြောင်းကြားပါသည်။ ည်စား) (ချိုချို**ငင်း**၊ ဒုတိယညွှန်ကြားရေးမှူးချုပ်) မန်နေဂျင်းဒါရှိက်တာ ş Myanmar Asia Optical International Company Limited မိတ္တူကို ညွှန်ကြားရေးမှုုးချုပ်၊ ကူးသန်းရောင်းဝယ်ရေးနှင့် စားသုံးသူရေးရာဦးစီးဌာန ညွှန်ကြားရေးမှူးချုပ်၊ အကောက်ခွန်ဦးစီးဌာန ညွှန်ကြားရေးမှူးချုပ်၊ ပြည်တွင်းအခွန်များဦးစီးဌာန ရုံးလက်ခံ၊ မျှောစာတွဲ

CO WIMERGE	The Governme	nt of The Republ Ministry of C Department	ommerce	of Myanmar
C	ERTIFICATE O	F EXPORTER/	IMPORTER RI	GISTRATION
1. Enterprise Name:	MYANMAR ASIA O INTERNATIONAL C	PTICAL COMPANY LIMITED.	2. Registration N	o: <u>147842228(01/04/2003)</u>
			3. Registration T	erm: Five Year
			4 Start Date:	21/03/2021
			5 End Date:	20/03/2026
6. Address:				ial Park, Mingaladon
	Yangon Region, MYA	NMAR 11021		
			•	
7. Business Registrat	tion No : <u>147842228(</u> 2	26/03/2003)		
8. Type of Business :	Industry/Production/	Manufacturing (Foreign Co	ompany)	
9. Type of Service :	Extension			
10. Contact No :				
,+95-1-639072 ,+9	95-1-706972	+95-1-639034		@asiaoptical.com.mm
				E-mail
- Telephone	e No.	Fax No.		E-man
11. Remarks :	MIC PERMIT No., 337/			E-man
 Remarks : Terms and Condi I hereby register terms and condit (a) Line of good (b) The enterpris 	MIC PERMIT No., 337/ tions : the above mentioned tions: s permitted - all items		d restricted items.	the following
 Remarks : Terms and Condi I hereby register terms and condit (a) Line of good (b) The enterpris 	MIC PERMIT No., 337/ tions : the above mentioned tions: s permitted - all items the must abide by the I	2003 (12-2-2003) l enterprise as Exporte s except prohibited and	d restricted items.	the following
 Remarks : Terms and Condi I hereby register terms and condit (a) Line of good (b) The enterpris 	MIC PERMIT No., 337/ tions : the above mentioned tions: s permitted - all items the must abide by the I	2003 (12-2-2003) l enterprise as Exporte s except prohibited and	d restricted items. d Regulations prescr Thaung Naing	the following
 Remarks : Terms and Condi I hereby register terms and condit (a) Line of good (b) The enterpris 	MIC PERMIT No., 337/ tions : the above mentioned tions: s permitted - all items the must abide by the I	2003 (12-2-2003) l enterprise as Exporte s except prohibited and Export/Import rules an	d restricted items. d Regulations prescr Thaung Naing	the following
 Remarks : Terms and Condi I hereby register terms and condit (a) Line of good (b) The enterpris 	MIC PERMIT No., 337/ tions : the above mentioned tions: s permitted - all items the must abide by the I	2003 (12-2-2003) l enterprise as Exporte s except prohibited and Export/Import rules an	d restricted items. d Regulations prescr Thaung Naing	the following
 11. Remarks : 12. Terms and Condi I hereby register terms and condii (a) Line of good (b) The enterpris the registered Ex 	MIC PERMIT No., 337/ tions : the above mentioned tions: s permitted - all items the must abide by the I	2003 (12-2-2003) l enterprise as Exporte s except prohibited and Export/Import rules an	d restricted items. d Regulations prescr Thaung Naing	the following
 Remarks : Terms and Condi I hereby register terms and condit (a) Line of good (b) The enterpris 	MIC PERMIT No., 337/ tions : the above mentioned ions: s permitted - all items ee must abide by the I sporters/Importers.	2003 (12-2-2003) l enterprise as Exporte s except prohibited and Export/Import rules an	d restricted items. d Regulations prescr Thaung Naing	the following

Appendix 7 Certificate of Exporter/Importer Registration

ဓာတ္ပပစ္စည်းနှင့်ဆက်စပ်ပစ္စည်းမျှားအန္တရာယ်မှ ပုံစံ 0 Ge ဓာတုပစ္စည်း တားဆီးကာကွယ်ရေး အရေအတွက် (မျိုး) ဗဟိုကြီးကြပ်ရေးအဖွဲ သက်တမ်း ၂ နှစ် ဓာတ္ဝပစ္စည်းနှင့်ဆက်စပ်ပစ္စည်းများ မှတ်ပုံတင်လက်မှတ် မှတ်ပုံတင်လက်မှတ်အမှတ်စဉ် _ _ _____ (နည်းဥပဒေ ၂၇) ်ရက်စွဲ၊ ၂၀၁၉ ခုနှစ်၊ အောက်တိုဘာလ ၂၂ ရက် ____ှ<u>२</u> – ၈ – ၂၀၁၉ ____ရက်စွဲပါ လျှောက်လွှာအမှတ် _____၀၀၂၀၆ _____ဖြင့် မှတ်ပုံတင်ခွင့်ပြုရန် လျှောက်ထားသော ဓာတုပစ္စည်းနှင့် ဆက်စပ်ပစ္စည်းများအား မြန်မာနိုင်ငံ အတွင်း SIL အသုံးပြုရန် မုတ်ပုံတင်ပြီးဖြစ်သည်။ Mr.Yuzo Asano ၂။ တာဝန်ခံလျှောက်ထားသူ၏အမည် ၃။ နိုင်ငံသားစိစစ်ရေးကတ်ပြားအမှတ် TZ 1187753 သို့မဟုတ် နိုင်ငံခြားသားမှတ်ပုံတင်အမှတ် Plot No.(A-2,3), Mingaladon Industrial Park, ၄။ အမြဲတမ်းနေရပ်လိပ်စာ Mingaladon T/S, Yangon Region. ၀၉-၄၂၀၀၉၂၂၈၁, ၀၉-၉၇၄၄၅၃၈၃၇ ၅။ ဆက်သွယ်ရန်ဖုန်းနံပါတ် သို့မဟုတ် ဖက်စ်(Fax)နံပါတ် သို့မဟုတ် e-mail လိပ်စာ mao80@asiaoptical.com.mm Plot No.(A-2,3), Mingaladon Industrial Park, ၆။ လုပ်ငန်းလိပ်စာ Mingaladon T/S, Yangon Region. ၀၉-၄၂၀၀၉၂၂၈၁, ၀၉-၉၇၄၄၅၃၈၃၇ ၇။ ဆက်သွယ်ရန်လုပ်ငန်းဖုန်းနံပါတ် သို့မဟုတ် mao80@asiaoptical.com.mm ဖက်စ်(Fax)နံပါတ် သို့မဟုတ် e-mail လိပ်စာ နောက်ဆက်တွဲပါအတိုင်းဖြစ်ပါသည်။ ၈။ မှတ်ပုံတင်ခွင့်ပြုသောဓာတုပစ္စည်းနှင့် ဆက်စပ်ပစ္စည်းများ (နောက်ဆွက်ခွဲစာရင်းအရ) မက်တစ်းကုန်ဘိုးမည် နေ့ရက် 11 - 20 - Job 61 000 P- 100 W89-1-1-2010 Con To Seque ဗဟိုကြီးကြပ်ရေးအဖွဲ့

Appendix 8 Industrial Chemical License (Form 7)

A STATE OF STATE OF STATE	တားဆီးကာကွယ်ရေး ဗဟို့ကြီးကြပ်ရေးအဖွဲ့		
ကုမ္ပရ	ဂီ/လုပ်ငန်းအမည် Myanmar Asia Optical International မှတ်ပုံတင်ခွင့်ပြုသည့် ဓာတုပစ္စည်းနှင့် ဆက်စပ်ပစ္စည်းမ		
စဉ်	ဓာတုပစ္စည်းနှင့်ဆက်စပ်ပစ္စည်းအမျိုးအမည်	တစ်နှစ်အသုံ ခန့်မှန်းပမ (ကီလိုဂရမ် သို့မဟ	an
1.	Adhesive Hardloc OP- 1030 Z	10,000 Kg	
2.	Adhesive Hardloc OP- 1903 R	500 Kg	s 、
3.	Adhesive World Rock No. 5515	2,000 Kg	5
4.	Adhesive World Rock No. 5518	2,000 Kg	5
5.	Norland Optical Adhesive 61	50 Kg	5
6.	Adhesive Hardloc OP- 1030 K	50 Kg	5
7.	Adhesive Hardloc OP- 1030 M	50 Kg	Ş
8.	Adhesive Hardloc OP- 1055 H	50 Kg	5
9.	Aluminium Oxide AL 203	1,500 Kg	5
10.	Anti- Corrosion and Scaling Agents (HC- 200)	500 Kg	5
11.	Cleaning Agent(FQG- 118)	15,000 Kg	5
12.	Cleaning Agent(QCJG- 105)	120,000 Kg	5
13.	Cleanser FX- 315 (Methylene Chloride)	160,000 Kg	5
14.	Cutting Fluid (CK- 01)	100,000 Kg	
15.	Cutting Liquid (Green Cut)	4,000 Kg	5
16.	Cutting Oil SL- 508	70,000 Kg	;
17.	Detergent (SAT- 680)	500 Kg	5

စဉ်	ဓာတုပစ္စည်းနှင့်ဆက်စပ်ပစ္စည်းအမျိုးအမည်	ခန့်မှန်	ခသုံးပြုရန် းပမာဏ
		(ကီလိုဂရမ် သို့	မဟုတ် လီတာ)
18.	EPOLLA #2000, Black A Liquid	1,000	Kg
19.	EPOLLA #2000, SM B Liquid	500	Kg .
20.	Ethanol (Denatured Ethanol)	150,000	Kg
21.	Film- Stripping Agent (FC- 71)	100,000	Kg
22.	Glue Removing Agent (TG- 05)	100,000	Kg
23.	GT-7(II) B (Hardener)	1,000	Kg
24.	Isopropyl Alcohol (IPA)	300,000	Kg
25.	Magnesium Fluoride	3,000	Kg `
26.	GT- 7(II) A (Paint)	1,500	Kg
27.	Fastite- No140 (N)TL 1 Black (Paint)	500	Kg
28.	Photo Bond # 150	500	Kg
29.	Photo Bond # 300/ 300 K	500	Kg
30.	Polishing Liquid ZOX- N	4,000	Kg
31.	RP 133 Rare Earth Polishing Powder (Red)	10,000	Kg
32.	S-204 Rare Earth Polishing Powder	20,000	Kg
33.	Polyacrylamide (PAM)	6,000	Kg
34.	Polyaluminium Chloride (PAC)	12,000	Kg
35.	Amberjet 1000 NA Resin	1,000	Kg
36.	Amberjet 4200 CI Resin	1,000	Kg
37.	Serutex S- 11	1,000	Kg '
38.	Shin- Etsu Silicone- X- 31- 1598- 2	500 500 500	Kg
39.	NT Silane Coupling Agent KBM– 403 (3– Glycidoxyprogy Trimethoxysilane)	500 000 000 000 000 000 000 000 000 000	Kg
		the second second	

စဉ်	ဓာတုပစ္စည်းနှင့်ဆက်စပ်ပစ္စည်းအမျိုးအမည်	ခန့်မှန်	ခသုံးပြုရန် းပမာဏ
			မဟုတ် လီတာ)
40.	Silica Scale Cleaning Agent (HC- 300 C)	500	Kg
41.	Cenoflex 2621	500	Kg .
42.	TCIC (HS- 070) (Trichloroisocyanuric Acid)	500	Kg
43.	Thinner No. 2350	500	Kg
44.	Zirconium Dioxide	20,000	Kg
45.	Zirconium Titanium Oxide	20,000	Kg
46.	Cleanser RSB -716 (Deinking Agent)	10,000	Kg
47.	Cleaner P 3	10,000	Kg 🕚
48.	Lotion LCS 855	5,000	Kg
49.	Thinner GT- II	5,000	Kg
50.	Bromochloro-5,5-Dimethylimidazolidine2,4dione (BCDMH)	5,000	Kg
51.	Cutting Liquid / Oil SS- 612	5,000	Kg
52.	Cleanser TP- 2 (Cleaning Agent)	6,000	Kg
53.	Clear Agent KYQ 1106	4,000	Kg
54.	Calcium Carbonate	2,000	Kg
55.	Potassium Hydroxide	4,000	Kg
56.	Silicone Fluid (HIVAC- G)	5,000	Kg
57.	Cutting Oil S- 100	5,000	Kg
58.	Adhesive / UV Curable Acrylic Resin 8807 L (World Rock	1,250	Kg
59.	RP-121 Rare Earth Polishing Powder (White)	200,000	Kg
60.	Epolla # 2000 Thinner	5,000	Kg
61.	Adhesive OP- 1080 L	3 100	Kg
i.	to the second state	e	

စဉ်	ဓာတုပစ္စည်းနှင့်ဆက်စပ်ပစ္စည်းအမျိုးအမည်	တစ်နှစ်အသုံးပြုရန် ခန့်မှန်းပမာဏ (ကီလိုဂရမ် သို့မဟုတ် လီတ	ဘာ)
62.	Grease FS2 (Green)	3,500 Kg	
63.	Grease MY 2 (Yellow)	3,500 Kg	
64.	Lubricating Grease	5,000 Kg	
65.	SX- Lubricant For Glass Glazing (HY071)	5,000 Kg	<u></u>
66.	Lotion WS- 355	56,000 Kg	
67.	Cleaner WS- 755	56,000 Kg	
68.	Tomocool # 530	10,000 Kg	
69.	G 17 Glue	850 kg	

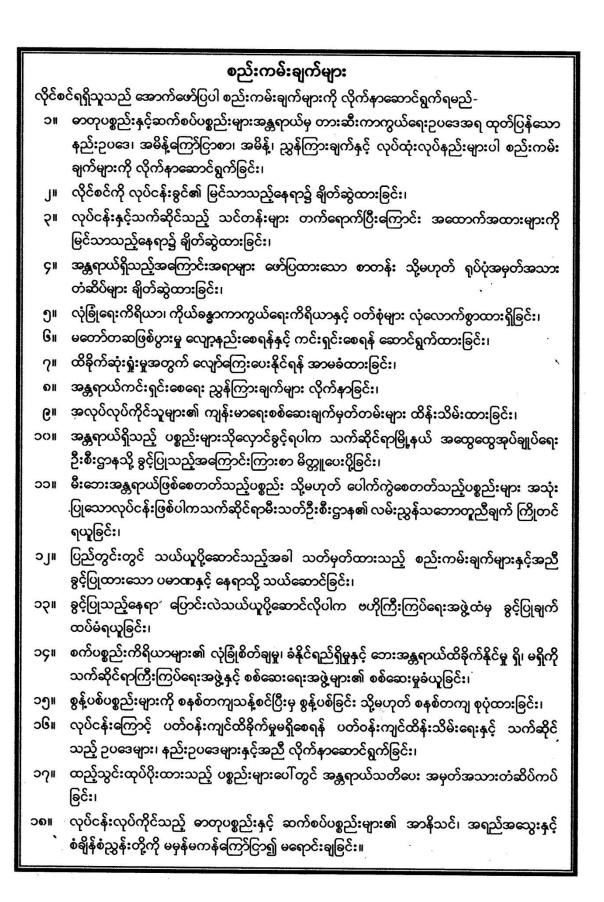
မှတ်ချက်။ လုပ်ငန်းလိုအပ်ချက်အရ တစ်နှစ်အသုံးပြုရန် ခန့်မှန်းပမာဏမှာပြောင်းလဲမှုရှိနိုင်ပါသည်။



စည်းကမ်းချက်များ မှတ်ပုံတင်လက်မှတ်ရရှိသူသည် အောက်ဖော်ပြပါ စည်းကမ်းချက်များကို လိုက်နာဆောင်ရွက် ရမည်– ၁။ ဓာတုပစ္စည်းနှင့်ဆက်စပ်ပစ္စည်းများအန္တရာယ်မှ တားဆီးကာကွယ်ရေးဥပဒေအရ ထုတ်ပြန် သော နည်းဥပဒေ၊ အမိန့်ကြော်ငြာစာ၊ အမိန့်၊ ညွှန်ကြားချက်နှင့် လုပ်ထုံးလုပ်နည်းများပါ စည်းကမ်းချက်များကို လိုက်နာခြင်း၊ ၂။ မှတ်ပုံတင်ထားသည့်စာရင်းတွင် ပါရှိသော်လည်း အသုံးမပြုလိုသော ပစ္စည်းများရှိပါက ဗဟို ကြီးကြပ်ရေးအဖွဲ့သို့ အသိပေးတင်ပြခြင်း၊ ၃။ မှတ်ပုံတင်ထားသည့်စာရင်းတွင် မပါရှိသည့်ပစ္စည်းများ အသုံးပြုခြင်း၊ မှတ်ပုံတင်ထားသည့် ပစ္စည်းများ၏ ကုန်အမှတ်တံဆိပ် သို့မဟုတ် အမျိုးအမည် ပြောင်းလဲခြင်း၊ ပါဝင်မှုပမာဏ ပြောင်းလဲခြင်း၊ အရည်အသွေးအာမခံချက်နှင့် စံချိန်စံညွှန်းပြောင်းလဲခြင်းနှင့် အမျိုးသား အဆင့် ဓာတုပစ္စည်းနှင့် ဆက်စပ်ပစ္စည်းများစာရင်းတွင် မပါရှိသည့်ပစ္စည်းသစ်များ အသုံး ပြုရန်ရှိပါက မှတ်ပုံတင်လက်မှတ် ထပ်မံလျှောက်ထားခြင်း၊ ၄။ လုပ်ငန်းနှင့်စပ်လျဉ်းသည့် အန္တရာယ်များကို တင်ပြခြင်း၊ ၅။ လုပ်ငန်းလုပ်ကိုင်ရာတွင် အန္တရာယ်ကင်းရှင်းစေရန် ဆောင်ရွက်ထားရှိခြင်း၊ ၆။ ပတ်ဝန်းကျင်ထိခိုက်မှုမရှိစေရန် စွန့်ပစ်ပစ္စည်းများကို စနစ်တကျသန့်စင်ပြီးမှ စွန့်ပစ်ခြင်း သို့မဟုတ် စနစ်တကျ စုပုံထားခြင်း။

Appendix 9 Chemical License

ဓာတုပစ္စည်းနှင့်ဆက်စပ်ပစ္စည်းများအန္တရာယ်မှ ڼô လုပ်ငန်း တားဆီးကာကွယ်ရေး အရေအတွက် (မိုး ဗဟိုကြီးကြပ်ရေးအဖွဲ့ သက်တမ်း JÃÕ ဓာတ္မပစ္စည်းနှင့်ဆက်စပ်ပစ္စည်းမျှားဆိုင်ရာ လုပ်ငန်းလိုင်စင် လိုင်စင်အမှတ် ______ (နည်းဥပဒေ ၁၈) ရက်စွဲ၊ ၂၀၁၉ ခုနှစ်၊ ဩဂုတ် လ ₍ ရက် _**_၁၈-၁၀-၂၀၁၈** _ _ ရက်စွဲပါ လျှောက်လွှာအမှတ် _ _ _**၂၄၁** _ _ _ ဖြင့် လုပ်ငန်းလိုင်စင် JIIC လျှောက်ထားသော ___ Myanmar Asia Optical International Co.,Ltd ____ကုမ္ပဏီ/ လုပ်ငန်းမှ ဦး/ဆော် _ Mr.Yuzo Asano _ (ဘ) _Mr. Asano Takeo နိုင်ငံသားစိစစ်ရေး ကတ်မြားအမှတ်/ နိုင်ငံခြားသားမှတ်ပုံတင်အမှတ် _ _ _ _ TZ 1187753 _ _ _ _ အား ဤ လုပ်ငန်းလိုင်စင်ကို ထုတ်ပေးလိုက်သည်။ ၂။ ခွင့်ပြုသည့်လုပ်ငန်းအမျိုးအစား သိုလှောင်ခြင်း၊ သုံးစွဲခြင်း၊ တင်သွင်းခြင်း၊ သယ်ယူပို့ဆောင်ခြင်း၊ လက်ဝယ်ထားရှိခြင်း၊ ဝယ်ယူခြင်း။ ၃။ လုပ်ငန်းလုပ်ကိုင်ခွင့်ပြုသည့် ဓာတုပစ္စည်းနှင့် Plot No.(A -2, 3) Mingaladon Indsustrial Park, Mingaladon Tsp, ဆက်စပ်ပစ္စည်းများ၏ အမျိုးအမည်များ ထားရှိမည့်နေရာ Yangon Region. (ပြည့်စုံစွာဖော်ပြရန်) ၄။ လုပ်ငန်းလို့ခ်စ္စန္တိသူကိုပ္စာ့မ်းကုန်ဆုံးမည့်နေ့ရက် <u>၅. ၅. ၂၀၂၂</u>___ ဗဟိုကြီးကြပ်ရေးအဖွဲ



	သူက မိတ္တုနှစ်စောင်ရေးသွင်းရမည်။	
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chu la	Dated,20 Signatures of the payer.	
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K (in figures) on the above acc STATION : Dated, : Cashier.	က်မ်းရှိနှင့်ကျက်ခု ၁၅ ကျက်ညက်ည်ဦး	
* Full details should be given. If on account of previous should also be stated.	paymen က်မား ကိုလ်မှုမှ date of payment, numba ကြားမှုများမှုး ပေးထားသည့်ရည်အထိမ်ဖြစ်လျှင်၊ ထိုသို့ ထုတ်ပေးသည့် ဘောက်ရာနပါတ်၊	· 33
လနှင့် နေရက် စသည်တို့ကို ရေးထည့်ရမည်။ အလျင်က ထုတ	ေးထားသည္မရင္အအဆိုင္အျဖစ္မလူေထုသ္ ထုတပေးသည္ ဘောကရာန္ ပါတဲ့၊	

Appendix 10 Safety Data Sheets

Material S	afety Data	Sheet for	Acetone
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Date Material Safety Data Sheet for Acetone

I. Identific		Page 2 of IV. First Aid Measures:
	me: ACETONE	
Other Information	ation: -	Emergency and First Aid Procedures:
televant iden	tified uses of the substance or mixture and uses advised against :Specification tests for Chemical products	Inhalstion:
such as Met	hyl isobutyl ketone, Methyl isobutyl carbinol (MIBC); Methylmethacrylate); solvents such as paint,	1. Remove the pollution source or the patient to a place with fresh air.
acquer, enan	nels, cellulose acetate textile solvent; cleaning and sterilizing of precision equipment; Potassium lodide and	2. If discomfort persists, seek medical care immediately.
Potassium Pe	manganate solvents; Methylmethacrylate fiber deglazer, sulfurized rubber products.	Skin Contact: -
nformation o	on Producer/Supplier Name, Addresses, Phone: Shih Sheng Industry Co.,Ltd. /	1. Use warm water to alleviate and wash the contaminated areas for 5 minutes or until the contaminants are remove
#F 22 Lane 42	23, Yuan Shan RD., Zhonghe Dist., New Taipei City, Taiwan	Eye Contact:
	hone / Fax: +886-2- 29570002 /+886-2- 29570117	1. Immediately Ill eyelids, use running warm water to wash contaminated eye(s) for 20 minutes or until the
and genery 11	1000 - 1 86 - 100 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	contaminants are removed.
I. Hazard	Identification:	2. Prevent clean water from contacting the unaffected eye. 3. Get medical attention immediately.
	ory: Class 2 flammable liquids, Class 3 skin corrosion/irritation substance, Class 2 severe injury/eye	Ingestion:
	irritation materials, Class 2 hazardous inhalation substance.	1. If the patient is losing consciousness, unconscious or in spasm, do not feed anything orally.
abeled Cont	tents:	2. If the patient is conscious, let the patient rinse his/her mouth completely with water,
\wedge	$\land \land$	3. Do not induce vomiting, 4. Let the patient drink 240-300ml of water. 5. Seek medical care immediately.
(1)		Major Disease and Harm Effect: Concentration higher than 2000 ppm may induce sleepiness, nausea, vomit,
Y		intoxication and dizziness.
vmbols:	Flame, Exclamation Point, Health hazard	First-Aid Personal Protection: Must wear Class C protective gear and perform emergency rescue in safe area.
Warning:	Dunger	Prompt to Doctor: If ingested accidentally, gastric lavage and active carbon should be administered.
	ing Information:	
	Highly flammable liquid and vapor	V. Fire Fighting Measure:
	Produces light skin irritation	Suitable Estinguishing Media: chemical powder, alcoholic foam and carbon dioxide
	Produces eve irritation	Special Exposure Hazards:
	May cause injuries if ingested and entered into the respiratory tract.	1. Liquid is extremely flammable and may be ignited at room temperature.
Jacard Presse	ntion Measures:	 Vapor is heavier than air and may travel to far places and flashback from ignition sources. Will accumulate in closed areas.
Autor Preve	Place container in a well-ventilated area.	 Containers in burning areas may rupture and explode.
	Keep away from inflammables Smoking prohibited.	S. Even diluted solution may ignite.
	For contact with eyes, wash with large amount of water and then seek medical help.	Special lótinguishing Procedure:
Other Hazard		1. Retreat and extinguish the fire from a safe distance or a protected area. 2. Stay upwind to keep away from
Other Hazard	ds:-	hazardous vapor and toxic decomposition. 3. Any leakage should be stopped before extinguishing the fire. If the
u com	DOCITION OF MUTURE	lealage cannot be stopped and there is no inuncdiate danger in the surrounding area, allow it to burn away. If the lealage is not stooped before estimatishing the fire, the vapor and the air will form an explosive meture and ignite
	POSITION OF MIXTURE	afterwards, 4. Separate materials that are not on line and protect the personnel. 5. Move the container away from
Single		the fire field under safe conditions. 6. Use water mist to cool the tanks or containers in exposed the fire field. 7.
inglish Name	e: ACETONE	The use of water mist to exinguish fire may be ineffective unless executed by fire lighters trained for exinguishing
	Dimethyl Formaldehyde, Dimethylketal, Dimethyl Ketone, Ketone Propane, Beta-Ketopropane, Methyl	flammable liquids. 8. If the leakage is not ignited, spray water mist to disperse vapor and protect the personnel
Synonyms: D	opanone, Pyroacrtic Acid, Pyroacetic Ether	who try to stop the leakage. 9. A water spout is ineffective for extinguishing the fire. 10. For a big fire in a large
		area, use the unmanned water mist stand or the automatic water fire monitor. 11, Retrest from the fire field and
Ketone, 2-Pro	stracts Number (CAS No.): 00067-64-1	allow the fire to burn out. 12. Stay away from the tanks. 13. When the safety valve alarm of the tank sounds or

Material Safety Data Sheet for Acetone

Page 3 of 7
 the color changes due to fire, retreat immediately, 14 Personnel without special protective equipment should not enter the fee feel

enter the fire field. xeeial Protection Equipment: Fire fighters must wear air respirators, fire fighting coats, and protective gloves.

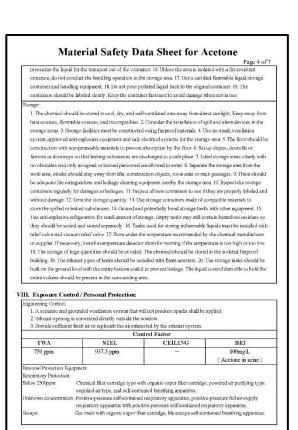
VI. Accidental Release Measures:

Restrict the access to the area till the polluted area is cleaned up completed. 2 Make sure the cleaning work is
 performed by trained personnel. 3 The personnel should wear appropriate personal protective equipment.
 invionmental Protection.

- The air in the area should be ventilated and exchanged. 2: All flammable sources should be eliminated. 3. Report the accident to the safety, health, and environmental protection authorities of the government. Methods for Cleaning Up:
- L Do not come in contact with the released elemical, 2. Avoid the released chemical from entering the severs, dmins, or reached spaces, 3. Stop or reduce the leakage under safe conditions if possible. 4 Use sund, earth, or other absorbent that do not reast with the released chemical to absorb. The polluted absorbent theses as handly and the released chemical to absorb. The polluted absorbent there are absorbent that do not reast with the released chemical to absorb. The polluted absorbent tensors as harmful as the released chemical to absorb. The polluted absorbent tensors are harmful as the released chemical and absorbent tensors are harmful as the released chemical and absorbent tensors are attractive to a severe to clean up the leakage area. The small release may be disted with a large quantity of water. 6 Lange Quantity: Context the fire fighting department, emergency response department, and the supplier for assistance.

VII. Handling and Storage:

1. This substance is a highly flummable and toxic liquid. Therefore, personal procettive equipment should be utriked during disposal while the engineer control is operational. The staffshould receive relevant training on the risk and safe handing of this substance. 2. All flammable sources should be removed and kept sawy from heat and incompatible multistances. 3. The "Stocking Prohibited" sign should be pressent in the work area. 4 All tanks, transfer containers and press must be grounded and in contact with how meal. 5. When the operation container and the result start and experiment contactions the second start and pressent in the work area. 4 All tanks, transfer containers and press must be grounded and in contact with how meal. 5. When the operation is not conducted in the sealed system, the connections between the operation container and the reside transmission of the analyst links, containers, mult links intra gas to reduce the risk of the and explosion. 7. The tanks or containers may be filled with inter gas to reduce the risk of the and explosion. The ventilation system or equipment that does not produce spaties used in the work area should be explosion-proced.9. The axies and easis should be taken the consideration. 10. The installation of the system for detecting before they are cleaned. The empty observations should be considerations. In Figure 9. Determiners operation and presentible experiment hard does when the operation of mixer any setter for detecting before they are observed. The pressing volume is a new should be taken into considerations. In Figure 9. Determiners operation explorement is not solved. The operation abould be the separated from the stonge area. 12. Weat approprint personal protective explorement, when necessary to avoid contact with this chemical solutions or the produce optiment. If J Do not use with incompatible chemical forum her resultations and the protein of fram and equiptions. If C Do not use with incompatible chemical forus the strenge solved. The compatible chemic



Material Safety Data Sheet for Acetone

Page 5 of 7 es made from butyl rubber, Teflon, 411, Barricade, Che Impermeable gloves made from butyl ru Trellchem and Tychem 10000 preferred. Trelichem and 19 cmm 1000 preserve. Eye Protection: Anti-chemical splashing subty goggles and mask (lowest limit is 8 inches) Skin & Body Protection: The above-mentioned one-piece protective nubber clothing, work boots, eye wash and quick shower facilities. To plated clother should be removed as soon as the work is completed. The clothes should be worn or discarded only after heing washed. The washing staff should be informed of the hannful effects of the pollution. 2. Fairing, drinking, and smoking are strictly prohibited in the work area. 3. Wash hands thoroughly after handling the substance. 4. eep the work area clean.

IX. Physical and Chemical Properties / Characteristics:

Appearance: Colorless and transparent liquid	Odor: Special sweet flavor, mint flavor	
Odor threshold: 3.6-653ppm (detected), 33-699ppm (sensed)	Melting point: -94.6°C	
pH value:	Boiling Point / Boiling Range: 56.2°C	
Flammability (solid, gas): -	Flash Point: -18°C	-
Decomposition Temperature: -	Test Method: Close Cup	-
Spontaneous Temperature: 465 °C	Exposure Limits: 2.5-12.8%	
Vapor Pressure: 180 mml lg	Vapor Density: 2	
Specific Gravity: 0.791	Solubility in Water. Completely soluble	
Log Kow: -0.24	Percent volatile: 5.6 (n-Butyl Acetate = 1)	

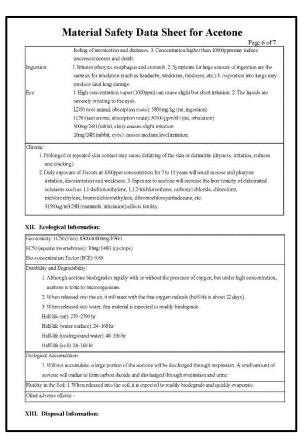
X. Stability and Reactivity:

Special Conditions of I	lazardous Reaction:
alkaline mixture (su	coldizer (such as oxide, nitrate, perchlorate), strong reducing agent, chlorinated solution and th as chloroform and sodium hydroxide), increases the risk of fire and explosion. 2 Strong mtl-butoxide, hessehloromelamine, sulfur dichloride.
Conditions to Avoid: S	parks, fire, heat, ignition sources, long exposure to heat.
Incompatibility: 1. Oxid sulfur dichloride and st	zer, chlorinated solution and alkaline mixture, potassium t-butoxide, hexachloromelamine, rong reducing agent.
Hazardous Decomposit	ion Products: Heat decomposition produces carbon monoxide and carbon dioxide.

ure route: inhalation, skin contact, eye contact, ingesti

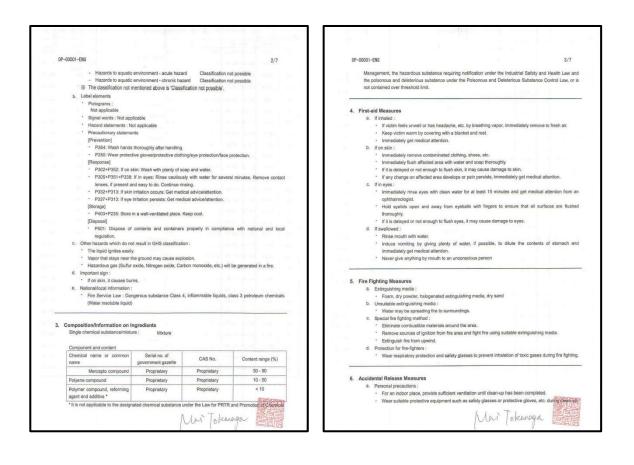
Symptoms: Headache, weakness, tiredness, nausea, feelings of intoxication, vomiting, atrophy, unconsciousness, defatting of the skin, dermatitis, disorientation

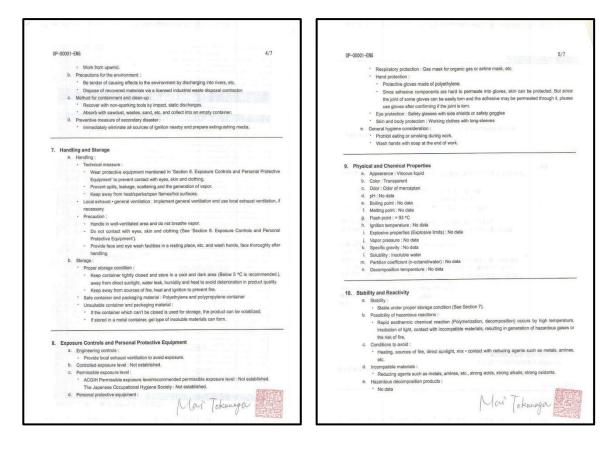
9 1. Direct contact may cause mild initiation. 1. No acute effect at low concentration. Slight initiation to nose and pharynxat high concentration (about 1000ppm). 2. Concentration higher than 2000ppm may induce skep, nausea, vomiling. ikin: Inhalation:

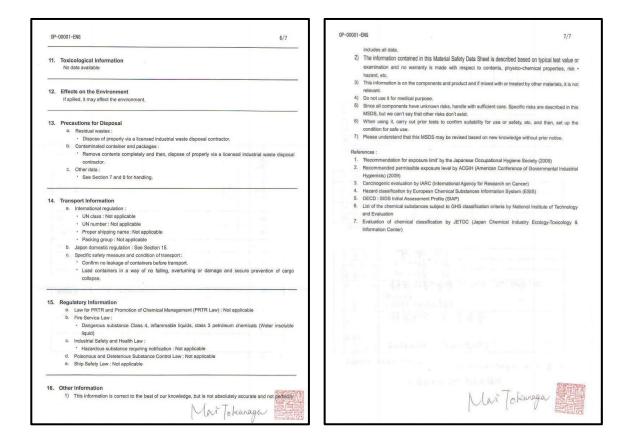


	Page 7 of 7
Disposal Infon	
	se according to related regulations.
	amounts can be burned in an approved incinerator while large amounts can be sent to an approved
	facility for disposal.
	substances must be kept in a safe container before they are disposed. ances with absorbed acetone can be buried in approved landfills.
	port Information: tions Number (Un-No): 1090
	Name: Acetone
	and Classification: Class 3 Flammable Liquids
	·
Packaging Cat	egory II nt (Yes/No): No
special Transp	ort Way and Note: -
2. Regulation of	r Rules of the Occupational Safety and Health Act f Labelling and Hazard Communication of Dangerous and Harmful Materials n Prevention of Organic Solvent Poisoning
 Regulation of 3. Ordinance of 4. Standards of 5. Traffic Safet 6. Standards for 	of Labelling and Hazard Communication of Dangerous and Hamful Materials n Prevention of Organic Solvent Poisoning (Permissible Exposure Limits of Airborne Hazardous Substances in Workplace
 Regulation of 3. Ordinance of 4. Standards of 5. Traffic Safet 6. Standards fo 7. Public Hazar Regulations 	of Labelling and Hazard Communication of Dangerous and Harmful Materials a Prevention of Organic Solvent Poisoning. (Permissible Exposure Lutrits of Airborne Hazardous Substances in Workplace PRegulations or the Storage, Clearance, and Disposal of Industrial Waste
 Regulation of 3. Ordinance of 4. Standards of 5. Traffic Safet 6. Standards fo 7. Public Hazar Regulations 	of Labelling and Hazard Communication of Dangerous and Harmfal Materials n Prevention of Organic Solvent Poisoning. (Premissible Exposure Limits of Airborne Hazardous Substances in Workplace y Regulations or the Stonge, Clearance, and Disposal of Industrial Waste clous Materials and Flammable Pressurized Gases Establishment Standards and Safety Control
2. Regulation of 3. Ordinance of 4. Standards of 5. Traffic Safet 6. Standards fo 7. Public Hazar Regulations	of Labelling and Hazard Communication of Dangerous and Harmful Materials In Prevention of Organic Solvent Poisoning. Premissible Exposure Limits of Airborne Hazardous Substances in Workplace By Regulations or the Stonge, Cleanance, and Dieposal of Industrial Waste rilous Materials and Flammable Pressurized Gases Establishment Standards and Safety Control Information:
2. Regulation e 3. Ordinance o 4. Standards o 5. Traffic Safet 6. Standards fe 7. Public Hazar Regulations XVI. Other	of Labelling and Hazard Communication of Dangerous and Hamfiel Materials In Prevention of Organic Solvent Poisoning. (Premissible Exposure Limits of Airborne Hazardous Substances in Workplace (Regulations) or the Stonge, Cleanance, and Diaposal of Industrial Waste elsous Materials and Flammable Pressurized Gases Establishment Standards and Safety Control Information: I. CHEMINFO Database, CONFO CD, 2005-2 2. RTECS Database, TOMES PLUS CD, Vol.63 - 2005 3. HSDB Database, TOMES PLUS CD, Vol.63 - 2005
2. Regulation of 3. Ordinance of 4. Standards of 5. Traffic Safet 6. Standards fo 7. Public Hazar Regulations	of Labelling and Hazard Communication of Dangerous and Hamful Materials n Prevention of Organic Solvent Poisoning (Permissible Equosure Limits of Airborne Hazardous Substances in Workplace y Regulations or the Storage, Charance, and Disposal of Industrial Waste dous Materials and Flammable Pressurated Gases Establishment Standards and Safety Control Information: C. CHEMINFO Database, CCDNFO CD, 2005-2 2. RTECS Database, TOMES PLUS CD, Vol.63 - 2005
 Regulation c Ordinance o Standards o Traffic Safet Standards f6 Standards f6 Standards f7 Public Hazar Regulations XVI. Other Reference Responsible	of Labelling and Hazard Communication of Dangerous and Hamfiel Materials In Prevention of Organic Solvent Poisoning. (Premissible Exposure Limits of Airborne Hazardous Substances in Workplace (Regulations) or the Stonge, Cleanance, and Diaposal of Industrial Waste elsous Materials and Flammable Pressurized Gases Establishment Standards and Safety Control Information: I. CHEMINFO Database, CONFO CD, 2005-2 2. RTECS Database, TOMES PLUS CD, Vol.63 - 2005 3. HSDB Database, TOMES PLUS CD, Vol.63 - 2005
2. Regulation of 3. Ordinance of 4. Standards of 5. Traffic Safet 6. Standards fo 7. Public Hazar Regulations	of Labelling and Hazard Communication of Dangerous and Hamful Materials a Prevention of Organic Solvent Poinoning (Permissible Epocyne Linits of Ariborne Hazardous Substances in Workplace y Regulations ref be Storage, Clearance, and Die posal of Industrial Waste ulous Materials and Planmuble Pressurized Gases Establishment Standards and Safety Control Information: I. CHEMINFO Database, CONFO CD, 2005-2 2. RTECS Database, TOMES PLUS CD, Vol63 · 2005 4. ChemWatch Database, 2004-4
 Regulation c Ordinance o Standards o Traffic Safet Standards f6 Standards f6 Standards f7 Public Hazar Regulations XVI. Other Reference Responsible	of Labelling and Hazard Communication of Dangerous and Hamfiel Materials n Prevention of Organic Solvent Poisoning (Premissible Exposure Limits of Airborne Hazardous Substances in Workplace y Regulations or the Stonge, Cheannce, and Disposal of Industrial Waste close Materials and Planmable Pressurated Gases Establishment Standards and Safety Control Information: I. CHEMINFO Database, CONFO CD, 2005-2 2. RTECS Database, TOMES PLUS CD, Vol63 · 2005 3. HSDB Database, TOMES PLUS CD, Vol63 · 2005 4. ChemWatch Database, 20044 Name: Shin Sheng Industry Co. J.dd. Address /Tel: 4F,22Lane 423,Yuan Shan RD,Zhonghe Dist.,New Taipei City, Taiwan

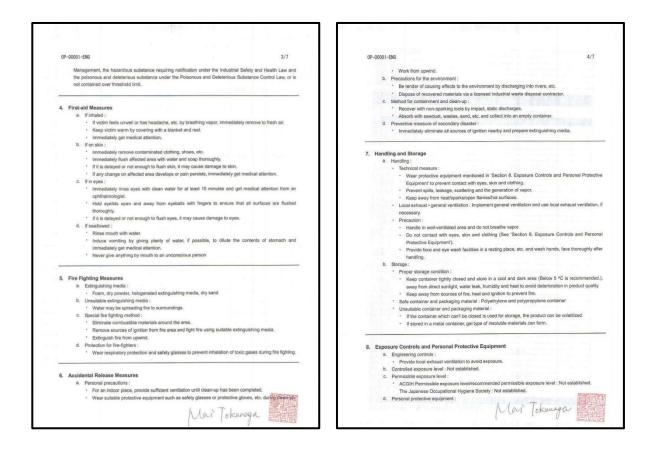


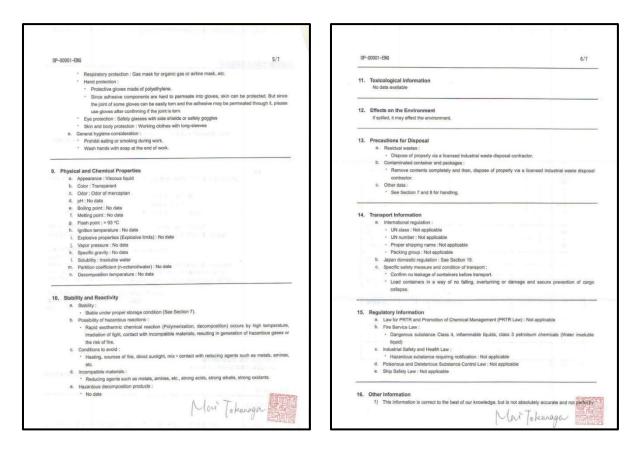


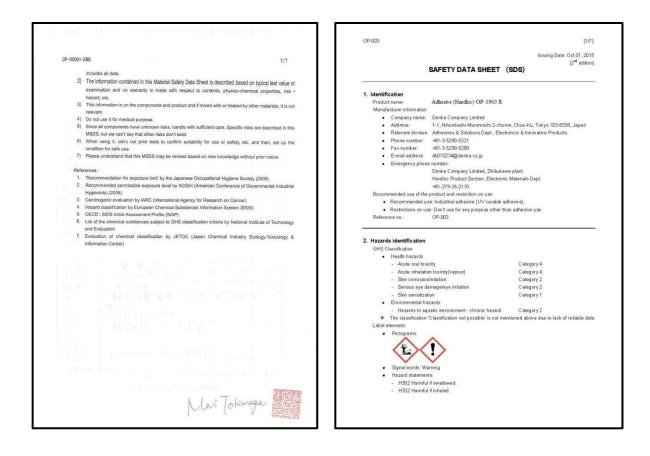


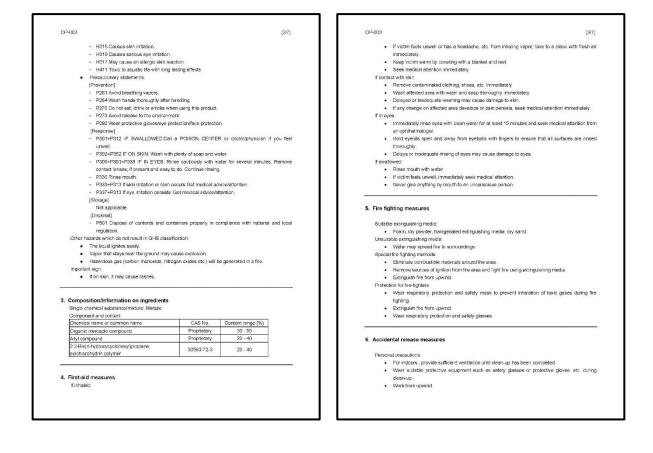


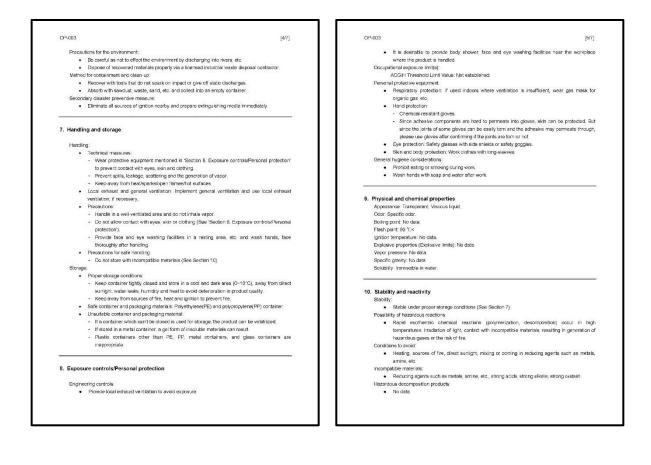
0P-00001-ENG			1/7	01	2-00001-ENG			2/7
		Issuing Da	te Jan. 01, 2013 (1st edition)	times.		environment - acute haza environment - chronic ha	tard Classification n	
	SAFETY DATA SHE	ET	THE PARTY		b. Label elements	richboried above is Glass	incation not possible .	
	ora Err brantoni	and the second second	A. Dr		Pictograms :			
					Not applicable			
1. Chemical Product and Compa	ny Identification			1.00	 Signal words : Not app 			
a. Product name : ADHESIVE	(HARDLOC) OP-1005, OP-102				 Hazard statements : N Precautionary stateme 			
		30Z, OP-1050Z, OP-1020M, 0			[Prevention]	nts		
		020MS, OP-1030MS, OP-105				thoroughly after handling		
b Information on mrs. factors	OP-1060MT, OP-1060LS, OP-1080L, OP-1120LN b. Information on manufacturer - Company name : Denki Kagaku Kogyo Kabushiki Kalsha					tive gloves/protective cloth		protection.
					[Response]	NAME OF A DESCRIPTION OF A		
	-1, Nihonbashi-Muromachi 2-ch		38, Japan			kin: Wash with plenty of s		
	apes & Adhesives Dept., Electro					If in eyes: Rinse cautiou		al minutes. Remove cont
Phone number :	81-3-5290-5290					nd easy to do. Continue ri		
Fax number :	81-3-5290-5289					irritation occurs: Get med		
 Emergency phone numb 				10.00	 P337+P313: If eye [Storage] 	irritation persists: Get met	fical advice/attention.	
	Denki Kagaku Kogyo Kabushiki I Hardloc Product Section, Electro			1.1		in a well-ventilated place.	Keen cool	
	Hardloc Product Section, Electro +81-279-25-2110	nic Materials Dept.		10.00	[Disposal]	in a front formation proper		
	ndustrial adhesives (UV curing a	adhesive)			 P501: Dispose of contents and containers properly in compliance with national and 			
	Please don't use for anything but			1.11	regulation.			
	OP-00001-ENG			1.1.1	c. Other hazards which do no	t result in GHS classificat	on :	
					 The liquid ignites easily 			
					 Vapor that stays near the 			
2. Hazards Identification				10.00	 Hazardous gas (Sulfur d. Important sign ; 	oxide, Nitrogen oxide, Ca	roon monoxide, etc.) will	be generated in a fire.
a. GHS Classification				12.12	 If on skin, it causes bur 	me -		
 Physical and chemical Flammable liquids 	hazaros	Not classified		term for	e. National/local information :			
- Health hazards		Not Glassingu			* Fire Service Law : Dar	gerous substance Class	4, inflammable liquids, o	class 3 petroleum chemica
- Acute toxicity (oral)		Classification not possible		- HT 94	(Water insoluble liquid)			
- Acute toxicity (dem	al)	Classification not possible		10 m				
 Acute toxicity (inhal 		Classification not possible		1000				
 Acute toxicity (inhal Acute toxicity (inhal 		Classification not possible Classification not possible		3.	Composition/Information on In			
 Acute toxicity (inhal Skin corrosion/irrita 		Classification not possible		TADK4	Single chemical substance/mixtu	re : Mixture		
 Serious eye damag 		Classification not possible		2010	Component and content			
 Respiratory sensitiz 		Classification not possible			Chemical name or common	Serial no. of		1
- Skin sensitization		Classification not possible			name	government gazette	CAS No.	Content range (%)
- Carcinogenicity		Classification not possible		10.004	Mercapto compound	Proprietary	Proprietary	50 - 90
- Reproductive toxici	y n toxicity (single exposure)	Classification not possible Classification not possible			Polvene compound	Proprietary	Proprietary	10 - 50
	n toxicity (single exposure) n toxicity (repeated exposure)	Classification not possible	医与而而未					< 10
 Aspiration toxicity 	A fightered and particular	Classification not possible	E E	1	Polymer compound, reforming agent and additive *	Proprietary	Proprietary	< 10



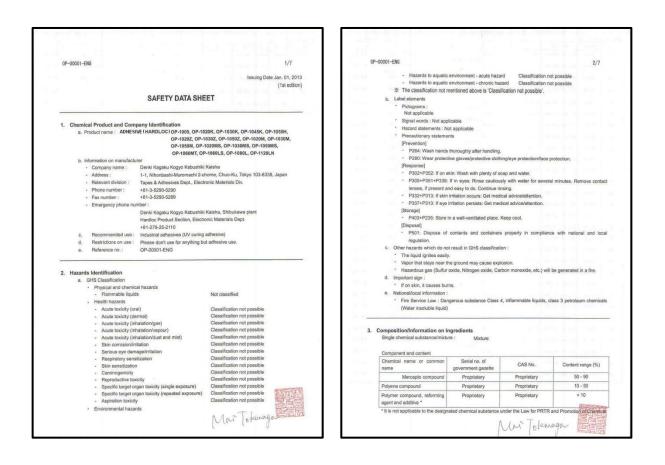


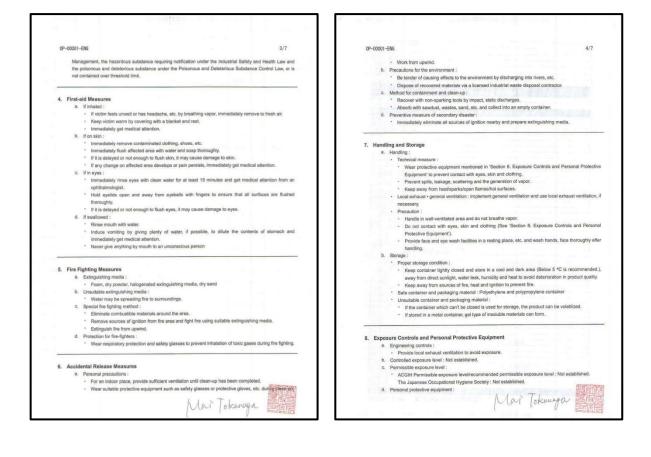






CP-003	02003
11. Toxicological information The following toxological information for components is available. Based on the content component OH5 datasefoldants determined as that in Section 2. Acute oral toxicity: Organic mercapic compound and a part of allyl compound are acute inflation toxicity. Sein consistentifytic provide the determined as that in Section 2. Acute inflation involving the determined as that in Section 2. Acute oral toxicity: Organic mercapic compound and a part of allyl compound are acute inflation toxicity. Sein consistentifytics: 2,3-8(4-4)vioxycyclohexyl(propane, epichtorshyl) in polymer and allyl compound are skin inflati. Serious eye damagedree inflation: 2,3-8(4-4)vioxycyclohexyl(propane, epichtorshyldin polymer is sensitiv contact with skin. NITP (Netional Toxicology Program). Not applicable. If applied, it may negatively affect the environment. Acute relase inflation is classified as toxic to the aquatic environment. Part Via applicable. If Disposal considerations Residual wates	 15. Regulatory information REACH SVH-C(Candidate List of substances of very high concern for Authorization) . Not applicable. SVRF Rv to tapplicable. Cationia Proposition85 Chemicals Known to the State to Gause Cancer or Reproductive Toxicity . Not applicable. 16. Other information This information is correct to the best of our knowledge, but is not absolutely accurate and dose periodity induce all data The information is correct to the best of our knowledge, but is not absolutely accurate and dose periodity induce all data The information is correct to the best of our knowledge, but is not absolutely accurate and dose periodity induce all data The information is correct to the best of our knowledge, but is not absolutely accurate and dose periodity induce all data The information is correct to the best of our knowledge, but is not absolutely accurate and dose periodity induce all data The information is not the components and product and if mixed with or treated by other mater become relevant Do not use for madical purpose. Since all components have unknown files, handle with extreme care. Specific fiels are describe the SDS but we can not say that other mise do not exist. When using, carry out prior tasks to confirm subability for use or safety, etc. and then, set conditions for safe use. Please understand that this SDS may be revised based on new knowledge without prior notice.
Dispose of property via a licensed industrial waste disposal contractor. Contaminated container and packages. Renove contents complexity and then, dispose of property via a licensed indust disposal contractor. Other cata.	
See Sections 7 and 8 for handling	
14. Transport information International regulation: International regulation: IN Notes: Class 9 (Miscellaneous dangerous substances and articles IN number: 3092 Proper shipping name: Environmentally hazardous substance, liquid N.G.S. Packing group III Reacher genetic settery measure and condition of transport: Contrimo inelatege of containers before transport. Load containers in a way as not fail, overtum or be damages and secure prevention cargo. Contributers in a way as not fail, overtum or be damages and secure prevention cargo.	





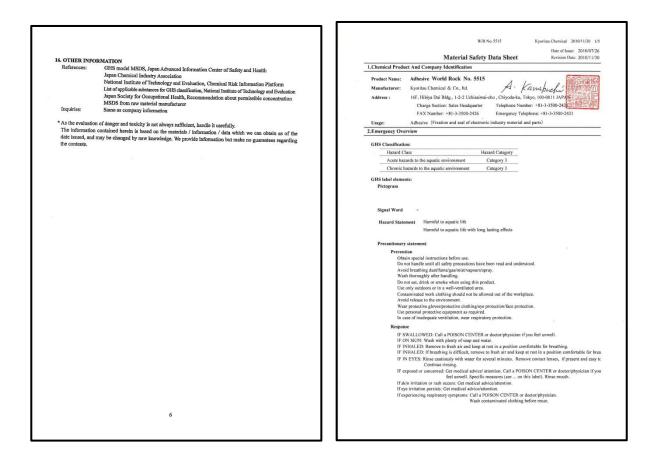
0P-00001-ENG	5/7	OP	-00001-ENG	6/7
* Respiratory protection : Gas mask for organic gas or airline mask, etc.				
 Hand protection : 		11.	Toxicological Information	
 Protective gloves made of polyethylene. 			NO Gata avaitable	
 Since adhesive components are hard to permeate into gloves, skin the joint of some gloves can be easily torn and the adhesive may be joint 				
the joint of some gloves can be easily form and the adhesive may be juse gloves after confirming if the joint is form.	permeated through it, please	12	Effects on the Environment	
 Eye protection : Safety glasses with side shields or safety goggles 		12.	If spilled, it may affect the environment.	
 Skin and body protection : Working clothes with long-sleeves 				
e. General hygiene consideration :				
Prohibit eating or smoking during work.		13.	Precautions for Disposal	
 Wash hands with soap at the end of work. 			a. Residual wastes :	
			Dispose of properly via a licensed industrial waste disposal contractor.	
			b. Contaminated container and packages :	
9. Physical and Chemical Properties			* Remove contents completely and then, dispose of properly via a license	ad industrial waste dispos
a. Appearance : Viscous liquid	201		contractor.	
b. Color : Transparent			 Other data : See Section 7 and 8 for handling. 	
c. Odor ; Odor of mercaptan d. pH : No data			See Section 7 and 6 for nandling.	
e. Boiling point : No data			8	
f. Metting point : No data		14.	Transport Information	
g. Flash point : > 93 °C			 International regulation : 	
h. Ignition temperature : No data			UN class : Not applicable	
i. Explosive properties (Explosive limits) : No data			UN number : Not applicable	
j. Vapor pressure : No data			 Proper shipping name : Not applicable 	
k. Specific gravity : No data			 Packing group : Not applicable 	
I. Solubility : Insoluble water			b. Japan domestic regulation : See Section 15.	
 Partition coefficient (n-octanol/water) : No data Decomposition temperature : No data 			 Specific safety measure and condition of transport : Confirm no leakage of containers before transport. 	
n. Decomposition temperature , no outur			 Load containers in a way of no falling, overturning or damage and s 	acture prevention of com
		10	collapse.	acore prevenuori or car
10. Stability and Reactivity				
a. Stability :		1	Mark A 1 A Device Leaves	
 Stable under proper storage condition (See Section 7). 		15.	Regulatory Information	
b. Possibility of hazardous reactions :			a. Law for PRTR and Promotion of Chemical Management (PRTR Law) : Not ap	plicable
Rapid exothermic chemical reaction (Polymerization, decomposition)	occurs by high temperature,		b. Fire Service Law :	
irradiation of light, contact with incompatible materials, resulting in gene	ration of nazaroous gases of		Dangerous substance Class 4, inflammable liquids, class 3 petroleum	chemicals (Water insolub
the risk of fire. c. Conditions to avoid :			liquid) c. Industrial Safety and Health Law :	
 Conditions to avoid : Heating, sources of fire, direct sunlight, mix + contact with reducing age 	ents such as metals, amines,		 Industrial Safety and Health Law : Hazardous substance requiring notification : Not applicable 	
alc.	and the second		d. Poisonous and Deleterious Substance Control Law : Not applicable	
d. Incompatible materials :	·····································		e. Ship Safety Law : Not applicable	
 Reducing agents such as metals, amines, etc., strong acids, strong alka 	alis, strong oxidants.		The second se	
e. Hazardous decomposition products :	THE TANK AND AND A			
* No data	REARD	16.	Other Information	
0 1 2 7	ekanaga		1) This information is correct to the best of our knowledge, but is not absolutely	accurate and not markit

 and Evaluation Evaluation Evaluation of chemical classification by JETOC (Japan Chemical Industry Ecology-Toxicology & Information Center) Pictograma / Symbols Signal word: Historical and toxicity inform 	MATERIAL SAFETY DATA SHEET	
 Pre-information contained in this Material Safety Data Sheet is described based on hytical test value or survey into a warranty is made with respect to contents, physico-chemical properties, risk - hazard, etc. This information contents and product and if mixed with or treated by other materials, its not relevant. Do not use it for magnetic product and if mixed with or treated by other materials, its not relevant. Do not use it for monoments and product and if mixed with or treated by other materials, its not relevant. Do not use it for monoments and product and if mixed with or treated by other materials, its not relevant. Do not use it for monoments and product and if mixed with or treated by other materials, its not relevant. When using it, carry out prior tests to continue sublishy for use or safety, etc. and then, set up the condition for any surve limit by the Japanese Occupational Hygiene Society (2009). Recommendation privately continue subletive for tests to continue abusinese information Conterne of Governmental Industrial Hygienes Society (2009). Carcinopane evaluation by IARC (International Agenery for Research on Cancer) Hazard dasafication by European Chemical Sublationes Information System (2515). Cocco: SIDS Initial Assessment Profile (SIAP) List of the international abusines subject to OEG dasafication or chemical Industry Ecology-Toxicology & Information Centery. Registration of chemical classification by JETOC (Japan Chemical Industry Ecology-Toxicology & Island and isocity information and post ty information Centery). 		
 In the information of program is during the specific contents, physics-chemical properties, risk - hazard, etc. The information is on the components and product and if mixed with or treated by other materials, it is not relevant. Bince all components have unknown risks, handle with aufficient care. Specific risks are described in this MSDS in their risks on the confirm subability for use or safety, etc. and then, set up the confirm the MSDS in their risks on the confirm subability for use or safety, etc. and then, set up the confirm the MSDS in their risks on the confirm subability for use or safety, etc. and then, set up the confirm the MSDS may be revised based on new knowledge without prior notice. References References confirm subability for use or safety, etc. and then, set up the confirm constraind that this MSDS may be revised based on new knowledge without prior notice. Reference exclusion for exposure limit by the Japanese Occupational Hygiene Society (2009) Reference exclusion by UACCI (International Agency for Research on Cancer) Hazard classification by UACC (International Agency for Research on Cancer) List of the chemical subdamese subject to OHS classification criteria by National institute of Technology and Sevaluation Evaluation G chemical classification by JETOC (Japan Chemical Industry Ecology-Toxicology & Information Spring (Simola) Information Center) 	RW-99 No.2	
 hazard, etc. The information is on the components and product and if mixed with or treated by other materials, it is not relevant. On on tubes if for medical purpose. Since all components have unknown fisks, handle with sufficient care. Specific risks are described in this MSDS, but we can't say that other risks don't exist. When using 1, carry out prior treats to comfirm autuality for use or safety, etc. and then, set up the condition for advance. Reference 1 Preservation for exposure inm? by the Japanese Occupational Hygiene Society (2009) Recommendation for exposure inm? by the Japanese Occupational Hygiene Society (2009) Carcinopone evaluation by URCP (International Appropriate Conference on Cancer) List of the chemical substances subject to GHS classification onteria by National Institute of Technology and Evaluation Evaluation of chenical duastification by JETOC (Japan Chemical Industry Ecology-Toxicology & Information Center) Signal voort: Hazard classification by JETOC (Japan Chemical Industry Ecology-Toxicology & Information Center) 	KOKONOE ELECTRIC CO., LTD. Isehara Branch	
 a) This information is on the components and product and if mixed with or treated by other materials, it is not network. b) Do not use it for medical purpose. b) Since all components have unknown risks, handle with sufficient care. Specific risks are described in this MMSDE, but we can't sign that other mixes don't exist. c) When using it, carry out prior tests to confirm suitability for use or safety, etc. and then, set up the condition for safe use. c) Rease understand that this MSDS may be revised based on new knowledge without prior notice. Reference 1 a. Recommendation for exposure limit by the Japanese Occupational Hygiene Boclety (2009) c) Recommendation for exposure limit by the Japanese Occupational Hygiene Boclety (2009) c) Carcinopic evaluation by LARC (International Agency for Research on Cancer) A hazard classification by European Chemical Subtances Information System (ESIS) c) Cortico 1205 Initial Assessment Profile (SUP) c) Latt of the chemical substances subject to CHS classification orderia by National Institute of Technology and Forbulation Profile (SUP) c) Ervitoannent Profile (SUP) c) Ervitoannent Profile (SUP) c) Ervitability of the safe safe substances and profile and the substance subject to CHS classification related by National Institute of Technology and forbulation thermation Center) Signal word: Hazard and molicity inform 	Address 16 Suzukawa Isehara-shi Kanagawa 259	-1146 JAPAN
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 4) Do not use if for medical purpose. 5) Since all components have unknown fikks, handle with sufficient care. Specific risks are described in this MSDS, but we cart is by in tool make don't exist. 6) When using it, carry out prior tests to confirm suitability for use or safety, etc. and then, set up the condition for safe use. 7) Please understand that this MSDS may be revised based on new knowledge without prior notice. 7) Reservementation for exposure limit by the Japanese Occupational Hygiene Society (2009) 6. Recommendation for exposure limit by the Japanese Occupational Hygiene Society (2009) 6. Carchognei evaluation by LARC (International Agency for Research on Cancer) 1. Hazard dassification by Laropean Chemical Societions Information System (ESIS) 0. Ecologiane evaluation 7. Evaluation 7. Evaluation 7. Evaluation 9. Evaluation 9. Ecologiane Profile (Safe) 1. State Chemical classification by JETOC (Japan Chemical Industry Ecology-Toxicology & Information Center) 9. State chemical classification by JETOC (Japan Chemical Industry Ecology-Toxicology & Information Center) 9. State chemical classification by JETOC (Japan Chemical Industry Ecology-Toxicology & Information Center) 9. State chemical classification by JETOC (Japan Chemical Industry Ecology-Toxicology & Information Center) 9. Instructione: 	Telephone No. +81-463-94-5231 Fax No. +81-4	61.06.5772
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OECD : SIDS Initial Assessment Profile (SIAP) Lat of the chemical substances subject to GHS classification orteria by National Institute of Technology and Feutuation Evaluation of chemical classification by JETOC (Japan Chemical Industry Ecology-Toxicology & Information Center) Signal wond: Hazed and toxicity inform Instructions:		as 1
E. List of the chemical substances subject to GHS classification criteria by National Institute of Technology and Evaluation Center Pictograms / Symbols Pictograms / Symbols Signal word: Hazed and toxicity inform Instructions:	Skin sensitization Clas	ss 1
 and Evaluation Evaluation Evaluation of chemical classification by JETOC (Japan Chemical Industry Ecology-Toxicology & Information Center) Pictograms / Symbols Signal word: Hiszard and toxicity inform 	Specific target organs / systemic toxicity (repeated exposure) Clas Hazardous to the aquatic environment (acute) Clas	
and Evaluation 7. Evaluation of chemical classification by JETOC (Japan Chemical Industry Ecology-Toxicology & Information Center) Signal word: Hazard and ioxidity inform		ss 2 ss 2
Information Center) Signal word: Heard and toxicity inform	$\wedge \wedge \wedge$	
Signal word: Hoord and tookity inform		
Instructiona:	Danger	
Instructions:	rmation: Risk of hazards when in contact with skin	
Instructions:	Harmful if inhaled (dust) Light skin irritation	
Instructions:	Eye irritation	
Instructions:	Risk of causing allergy, asthma or breathing difficulty	
Instructions:	May cause allergic skin reaction	102000 C
Instructions:	May cause damage to respiratory organ through prolonged or repeat Harmful to aquatic organism	ed exposure
and which a second and the second an	Harmful to aquatic organism due to long-term effect	
· · · · · · · · · · · · · · · · · · ·	Before handling, read and understand all safety precautions.	
	Do not eat, drink and smoke when using this product.	
1.10	Keep it from ignition source as it is a combustible solid. Prevent ignition with electrostatic discharge or sparks.	
	Wear protective glasses, protective gloves and protective clothing.	
1 (10.13) (10.10) (10.10) (10.10)	Use personal protection equipment or ventilation systems to avoid en	xposure.
	Do not inhale mist, steam or spray.	
A DECEMBER OF A		
10 10 - 0 H + CAUC AL 11 2 H		
1 3 a 1 5 7 8 10 4 10 4 10 5 10 5 10 5 10 5 10 5		
ESTATE		
Mai Tokwaga	1	

	Wa	sh hand sufficiently after	handling.	
		id the release into the er		
3. COM	POSITION / INFORM		IENTS	
Suit	gle substance or Compou	nd: Compound		
Г	Composition	Content (W%)	CSCL	CAS No.
	Rosin	80	Not applicable	8050-09-7
1	Beeswax	10	Not applicable	8012-89-3
E	Petroleum asphalt	10	9-1719	64742-93-4
		24 - 14 - 06 - 18 ⁻ 19 -		
	ST-AID MEASURES		en a la la como en la c	
nma		ove the exposed person	immediately to fresh air. In	f breathing is stopped or weak,
	ho	dy with a blanket and	alrway is clear and perform	artificial respiration. Cover the id keep the victim at rest. Get
	im	modiate medical attentic	others to keep it warm an	d keep the victim at rest. Get
Skin				ut contacted part with water or
	wa	ter of appropriate temp	erature and then wash with	soap. Get medical attention if
	in	itation develops.		
	contact: Pro	omptly wash eyes with p	lenty of water, and get medi	ical attention.
inge	stion: Im	mediately seek medical	attention. It is acceptable to	o let the person rinse the mouth
	we	il with water. Do not giv inconscious.	e anything to the exposed p	person from the mouth if he/she
		alconscious.		
5. FIRE	-FIGHTING MEASUR	ES		
Prop	er extinguishing media:	Carbon dioxide, Dry	chemicals. Fire-extinguist	ting foam, sprinkled or spayed
		water		mig tourid oprimition or spector
	ibited media:	Straight stream		
	ific hazards	It may generate irrita	ting or toxic gas depending	on the type of fire.
speci	ific methods of fire fightin		f combustion for the fire an gents. Spray water and coo	d distinguish the wire by using l facilities in proximity and so
Prote	ction for firefighters:		ar protective equipment for	or respiration, work from the
		windward side as	much as possible, and	avoid inhalation of vapor /
		combustion gas. Prol	hibit persons other than those	se concerned from entering the
		area by stretching a r	ope.	
ACCI	DENTAL RELEASE M	FASURES		
	nal precautions			
		to wear protective equir	ment to prevent sprav from	n coming into contact with the
	skin or in	halation of steam when	working.	
Envir	onmental precautions			
Pacos	Prevent (very / Purification metho	the leakage from flowing	g into drains / ditches / river	8.
Recon			with a mathed that much	I not scatter the dust, such as
	gathering	the powder or solidifyi	ng the dust and gathering.	a not souther the dust, such as
	ntion of secondary hazar	ds		
Preve	Evacuate	people from downwin	d, immediately remove any	sources of ignition from the
Preve	proximit	y and prevent entry of a	ny unrelated parties by surr	ounding the place of leak with
Preve	a rope an	d so forth.		

HANDLING AND S	FORAGE		
Exposure controls:	Refer to "8. EXPOSURE CONTROLS /	PERSONAL PROT	POTION "
Technical measures:	Prevent liquid leak or steam emission as if there is fear of skin contact or inhalation	much as possible a	nd wear protective equipment
	Do not use tools that may generate fire	, sparks or arc. or a	my high-temperature ignition
	sources in the area.		ally ingli temperatore ignition
	Wear conductive work clothes and work	shoes.	
	Use outdoors or in the area with good very	ntilation.	
101	Try to keep the working environment bel	ow the acceptable co	oncentration.
[Storage] Hazardous reaction:	D-6		
	Refer to "10. STABILITY AND REACT! Fires are strictly prohibited in the storage	IVITY."	
ownage continuous.	Close containers tightly and store away	area.	
	direct sunlight and in a cool dark place wi	ith good ventilation.	ature / moisture / water and
		in good renamed.	
EXPOSURE CONTR	OLS / PERSONAL PROTECTION		
Administrative levels		[Rosin]	[Petroleum asphalt]
	n: Japan Society for Occupational Health	Not specified	Not specified
r cranssione concentratio	ACGIH TLV/TWA	Not specified	Not specified
Facilities:	If dust, fume or mist is generated, insta		0.5mg/m ³
	Establish an emergency eye-washing location of handling.	g facility and bod	y-washing shower near the
[Protective equipment	1		
Respiratory protection:	Use respiratory protective equipment a	nd others depending	on the cituation
Eye protection:	Use protective glasses (googles) denen	ding on the situation	
Skin and body protection	: Use protective clothing and so forth de	pending on the situa	tion.
PHYSICAL AND CH	EMICAL PROPERTIES		
Appearance:	Combustible blackish brown solid		
Odor:	No odor		
Specific gravity:	1.01 (25 degrees)		
Solubility:	Insoluble in water. Soluble in hydrocar	bons solvents	
Melting point:	55 degrees Celsius at softening point		
Boiling point:	No data		
Vapor pressure:	No data		
Vapor density (Air=1)			
Flash point:	200 degrees Celsius or higher		
Autoignition point: Explosibility range:	No data No data		
and a second sec	ino udia		
STABILITY AND RI	ACTIVITY		
Stability:	Stable at normal handling c	ondition	
Conditions to be avoid			such as high temperatures,
	flames or sparks.		a nga maparaturos,
Substances with dange			
Possibility of hazards:	No data		
Hazardous decomposit	ion products: It may form irritating or tox	ic gas when burnt.	
	· 3		
	3		

1. TOXICOLOGICAL IN	FORMATION	Repeated exposure: Ba	and on the develop of the state
[Rosin]			sed on the description of irritation in the respiratory tract due to fume, Clas- ritation in the respiratory tract)
Acute toxicity:	Percutaneous: Based on LD50 value for rabbits approximately 2500mg/Kg, and >2500mg/Kg, approximately 2500mg/Kg was adopted and Class 5 was set.	Respiratory hazards by inhalation	 Not Classified as the coefficient of viscosity is 8000mm² and over.
	Risk of hazards when in contact with skin (percutaneous)	12. ECOLOGICAL INFORMAT	
	Inhalation (dust): Based on LD50 (6 hours) for rats approximately 1.5mg/L (value	[Rosin]	ION
	converted to 4 hours approximately 2.3mg/L), Class 4 was set.	Reproductive toxicity:	
	Hazardous when inhaled (dust)		Daphnia magna EC10 48 hours 4.5mg
Skin corrosivity / irritation	a: Based on the description that there was light irritation in a skin irritation test using	Persistence / degradability;	Daphnia magna EC ₅₀ 48 hours 4.5mg Low in degradability
	rats, Class 3 was set.	Bioaccumulation:	No data
Carloss and American 11	Light skin irritation	Mobility in soil:	No data
Serious eye damage and is			
	Based on the description that there was light irritation in an eye irritation test using	[Petroleum asphalt]	
	rats, Class 2B was set. Eye irritation	Reproductive toxicity:	No data
Respirator sensitization:		Persistence / degradability:	Low in degradability
recapitator scustuzation:	Since it is listed as a sensitizing chemical by Japanese Society of Occupational and	Bioaccumulation:	No data
	Environmental Allergy, Class 1 was set. Japan Society for Occupational Health	Mobility in soil:	No mobility in soil
	classifies this product as Group 1 respiratory tract sensitization substance. Inhalation may cause allergy, asthma or breathing difficulty.		
Skin sensitization:	The Japanese Society for Dermatoallergology and Contact Dermatitis classifies	13. DISPOSAL CONSIDERATIO	
	rosin as a skin sensitization substance, ACGIH as SEN, Japan Society for	Disposal method:	Dispose in accordance with related regulations and local government standard.
	Occupational Health as Group 1 skin sensitization substance, and DFG as Sh. Since		Consign a qualified industrial waste treatment firm or a local government
	there are also reports on cases of allergic contact dermatitis, Class 1 was set.	Disposal of container / packing:	a local government conducts the disposal).
	Risk of causing allergic skin reactions	osposa of container / packing;	Recycle the container after cleaning, or appropriately dispose of it accordance with related regulations and local government standard.
Germ-cell mutagenicity:	No data		accordance with related regulations and total government standard.
Carcinogenicity:	No data	14. TRANSPORT INFORMATIC	N
Reproductive toxicity:	No data	International restriction:	No data
Specific target organ / syst	emic toxicity	Domestic restriction	
Single exposure:	No data	Land transportation information	n: If The Fire Service Act, Industrial Safety and Health Law and others a
Repeated exposure:	No data	1000 M	applied, comply with them.
Respiratory hazards by inh	alation: No data	Marine transportation informatio	a: Comply with Ship Safety Law. Non-hazardous material.
		Aviation transportation informati	on: Comply with Civil Aeronautics Act, Non-hazardous material.
[Petroleum asphalt]	Service to solar (Streeps Calmate Service) - Service (Streeps)	Other precautionary measures:	Check that there is no container damage, leak and so forth and load t
Acute toxicity:	It is estimated that the acute toxicity is low.		product with measures to prevent impact, collapsing, falling or direction
	Oral Rat LD ₅₀ > 5000mg/kg		sunlight as well as measures to prevent load collapsing when transporting, vehicle and so forth.
	Dermal Rabbit LD ₅₀ > 2000mg/kg		Prevent it from leaking into water such as rainwater.
	The results of Draize Tost suggest no irritation.	15. REGULATORY INFORMATI	ON
Serious eye damage and in		Fire Service Act:	Annexed Table No.4 "Designated Combustibles and Combustible Solid
	The results of Draize Test suggest mild irritation.		(for amounts 3000kg and larger), Government Ordinance on regulation
	The gas which is generated form molten asphalt irritates respiratory organs and		hazardous substances, 4 of Article 9 of the Act
Description of the state	mucous membrane of the eye.	Industrial Safety and Health Law	: Annexed Table No. 9 "Hazardous materials and deleterious materials to I
Respirator sensitization: Skin sensitization:	No data		notified of names and so forth," 2 of Article 18 of Enforcement Order, 2
Germ-cell mutagenicity:	No data		Article 57 of the Act
Carcinogenicity:	No data	Act for the Prevention of Marine	Pollution and Maritime Disaster: Oil emission control
Reproductive toxicity:	IARC Group 3 (Substance where the carcinogenicity for humans cannot be classified.)	Sewerage Service Act:	Oil emission control Mineral oils emission control
Specific target organ / syste	No data	Water Quality Pollution Control Ac	Pulieral ous emission control
Single exposure:	mue toxicity There is information that black rat had no skin tumors in the dissection view.	Law related to disposal of waste	ind cleaning:
suffic exposite:	more is information that black rat had no skin tumors in the dissection view.		Industrial waste regulation
			5



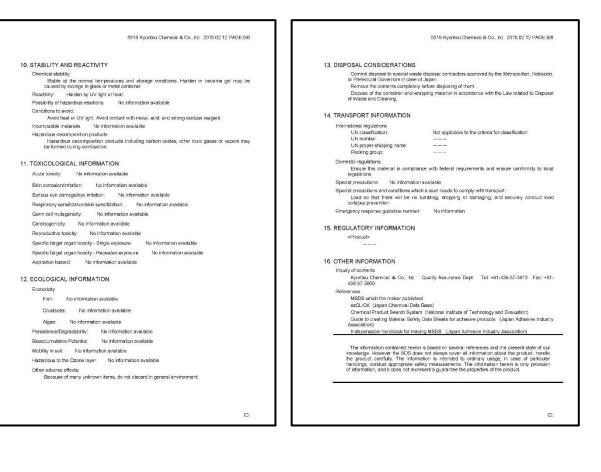
Sturage		7.Handling And Storage	
Keep container tightly closed. Store in a dark place.		Handling	
		Technical Measures: Use adequate ventilatie	i0.
Dispose		Precautions: Take care not to leak and / or a	
Consider disposal via licensed waste disposal company, Serap condition. Follow all regulations in your country.	may be incinerated under properly controlled	Procautions For Safety Handling:	
sacardon, randow an regulations in your country.		Avoid inhalation, or contact w	ith eye, skin, and clothing, use appropriate PERSONAL
Composition / Information on Ingredients		PROTECTIVE EQIOPMENT (Storage	mask, jacket, gloves, boots, etc.).
		Storage Condition: Keep container tightly d	iosod. Store in a dark place.
Distinction Between Single Product And Compound: Compound		Prohibited Waterials: None	0
Chemical Name: Acrylic resin		Container Materials For Safety Storage:	
Synonyms: UV curable acrytic resin			tainer. When it is impossible, use tightly sealed and light shielded
Ingredients And Content;			f polyethylene er pelypropylene.
Ingredients	Content (%)	8.Exposure Controls / Personal Protection	
Modified acrylate oligomers	20-30	Engineering Controls: To avoid from bad small	I, local exhaust system ought to install. When UV irradiation
UV curable monomers	50-60	equipment exist, it is no	
Plasticizer	10-20	* Exposure Limits: Not Established	
Other additive agents	~5	Personal Protective Equipment:	
Total	100	Respiratory Protection: Use gas mask for or	ganic solvent, if necessary.
First Aid Measures		Hand Protection: Use protection glaves, if no	contary.
Inhalation: Remove to fresh air and keep at rest in a position comfortab	to be bearbing. Call a DOMACN	Eye Protection: Use protection goggles, if no	and a first state and
CENTER or doctor/physician if feel unwell.	a in meaning. Call a PUISON		
Skin Contact: Remove contaminated clothing. Finsh skin immediately w attention. Wash clothing before reuse.	th plenty of soap and water. Get medical	Skin and Body Protection: Usc appropriate p	rrotection jacket, if necessary.
Eye Contact: Immediately flush eyes with plenty of water for at least 15		9. Physical And Chemical Properties	
lenses, if present and easy to do. Then, continue rinsing, If		Appearance: CLEAR LIQUID	Bad Smell: Slightly
Ingestion: Wash mouth with water, Call a POISON CENTER or doctor unless directed to do to by medical person,	physician. Do not induce vomiting	pH : -	Melting Point: No data
	and the second se	Boiling Point: No data	Flash Point: 105-150°C
		Autoignition Temperature: No dala	Explosion Limit: No data
Fire Fighting Measures			
	commended media.	Vapor Pressure: No data	Vapor Density: -
Fire Fighting Measures Exclogateling Media: Water, Dry chemical, or Protein type air foams are r Prohibited Extinguishing Media's one	commended media.	Vapor Pressure: No data Specific Gravity: 0.9740.10	Vapor Density: - Solubility: Soluble in organic solvents
Excloguishing Media: Water, Dry chemical, or Protein type air foams are r Prohibited Extinguishing MediaNone		Specific Gravity: 0.97±0.10 Distribution Coefficient: No data	
Excloguishing Media: Water, Dry chemical, or Protein type alt founs are r Prohthited Extinguishing Media/sone Special Fire Vighting Procedures: Extinction work shall be done from u		Specific Gravity: 0.9740.10	Solubility: Soluble in organic solvents
Extinguishing Mediu: Water, Dry chemical, or Protein type air foams are e Prohibited Extinguishing, MediaA one Special Fire Fighting Procedures — Extinction work shall be done from u Protection Of Fire Fighting Member:	wind of fire.	Specific Gravity: 0.97±0.10 Distribution Coefficient: No data	Solubility: Soluble in organic solvents
Exclopation Models: Water, Dry chemical, or Protein type air foams are r Prohtfirthe Exclinguishing Media's one Special First Nighting Procedures: Extinction work shall be done from u Protection OF First Englishing Analysis and Contraction Proteining Apparation (SCID) protection out Have the area to prevent similation economic of the	twind of fire. (). Personnel tot having soliable requiratory axic combustion gauge from any source.	Specific Gravity: 0.9740.10 Distribution Coefficient: No data (Octanol / Watar) 10.Stability And Reactivity	Soluhility: Soluhic in organic sufvents Decomposition Temperature:
Extinguishing Media: Water, Dry chemical, or Protein type air fourns are re Produlter 1. Extinguishing. Media: wore Special for its highing Procedures: Extinction work shall be done from up Protection OF Fire Tighting Remarker: Were positive pressure call constanted heathing supporting (SCID protection word have the area to prevent significant econome to 1 for endosed or poorly wordlind area, wave GTM wing, cleaning	twind of fire. (). Personnel tot having soliable requiratory axic combustion gauge from any source.	Specific Gravity: 0.9740,10 Distribution Coefficient: No data (Octanol / Watar) 10.5tubility And Reactivity Chemical Stability: Stable at the normal tempe	Solubility: Solubic in organic solvents Decomposition Temperature: -
Extinguishing Media: Water, Dry chemical, or Protein type air foams are r Prohibited Exclugationing Media's none Special Fire Flighting Procedures: Extinctions work shall be done from u Protection OF Fire Engine In Manheer Protection Optime Engine In Manheer Contained Intrachting apparation (SCED) protection out flavor the area to present similation exosure to it	twind of fire. (). Personnel tot having soliable requiratory axic combustion gauge from any source.	Specific Gravity: U3720.10 Distribution Coefficient: No data (Octame)/Watary 10.Stability And Reactivity Chemical Stability: Suble at the normal tange may be caused by atonge 1	Solubility: Solubic in organic subrenss Decomposition Temperature: -
Extinguishing Media: Water, Dry chemical, or Protein type air foams are re Prohibited Extinguishing Mediata wine: Special first righting Procedures: Extinction work shall be done from up Protection OF Fire Tighting Remarker: When protein generative deformation for multiling appending (SCD) protections wind have be aren'to prevent significant accounty of the endosed or poorly vortilized areas, ware STRA during cleanag the attack place of fire tighting operations.	twind of fire. (). Personnel tot having soliable requiratory axic combustion gauge from any source.	Specific Gravity: 0.9740.10 Distribution Coefficient: No data (Octamal / Watar) 10.Stability: And Reactivity Chemical Stability: Stable the normal tomper may be to avoid by a storage Reactivity: In Hardwin UV light or base.	Solubility: Soluble in organic solvents Decomposition Temperature: -
Extinguishing Media: Water, Dry chemical, or Protein type air foams are re Produkted Extinguishing. Mediation one: Special first wighting Procedures: Extinction work shall be done from u Protection Of Fire Flighting Member: Were positive pressure acid-contained treathing suparatus (SCID) protection would have the area to provent significant econour on to international acid and an area and several significant econour on to the attack plane of fire lighting operations. Accidental Release Measures	wind of fire. A. Personnel na having soliable respiratory into conhustion giose, from any source, immediately inter a fire as well as during	Specific Gravity: 0.9740.10 Distribution Coefficient: No data (Octamal / Watar) 10.Stability: And Reactivity Chemical Stability: Stable the normal tomper may be to avoid by a storage Reactivity: In Hardwin UV light or base.	Solubility: Solubic in organic subrenss Decomposition Temperature: -
Extinguishing Media: Water, Dry chemical, or Protein type air foams are r Prohibite Extinguishing Media/sone Special for twighting Procedures: Extinsions work shall be done from u Protection Of Fire Tighting Member: Were public the pressure self-contained heathing apparating (SCID) protection must have the area to prevent significant econour to 1 fs. and/self or poorly world area, work STA during cleanu the attack place of the righting operations. Accidental Release Measures Steffunded (Evennet). Keep uncecessary scople away; isolate the numer.	wind of fire. A. Personnel na having soliable respiratory into conhustion giose, from any source, immediately inter a fire as well as during	Specific Gravity: 0.9740.10 Distribution Coefficient: No data (Octamal / Watar) 10.Stability: And Reactivity Chemical Stability: Stable the normal tomper may be to avoid by a storage Reactivity: In Hardwin UV light or base.	Solubility: Soluble in organic solvents Decomposition Temperature: -
Extinguishing Media: Water, Dry chemical, or Protein type air foams are re Produkted Extinguishing. Mediation one: Special first highling Procedures: Extinction work shall be done from u Protection Of Fire Fighting Member: Were positive pressure add-contained irrathing imparation (SCD) for enclosed or poorly worthing or posterior of the first or poorly the attack place of fire lighting operations. Accidental Release Measures Softguered (Personnel): Keep uncerstary couple wory; isolate the no.zer.	wind of fire. A. Personnel na having soliable respiratory instruction gases from any source. instructional solution of the set well as during area and deny entry.	Specific Gravity: 10/20010 Disprictediates (certificate): No data (Octanol / Watar) 10.Stinhility: And Resettivity Chemical Stability: Stable tick a normal tampe may be caused by a tampe Resettivity: Handen by UV light artistat. Canditions To De Avoid : Avoid I and or UV lig Prohibited Vaterials: None Hazardons Decomposition Protates: Foranious	Subability: Solubic in organic solvens Decomposition Temperature: -
Extinguishing Media: Water, Dry chemical, or Protein type air foams are re Prohibited Favinguishing Media/area Special for to highing Procedures E. Extinction work shall be done from u Protection OF Fire Tighting Member: Were positive pressure settle-toratined treathing supporting (SCID) protection must lawar the area to prevent significant economic to 1: n. endosed or porty venitative area, ware SCIA during cleaning the attack phase of fire tighting operations. Acceleration Release Measures Singurario (Reromanci): Keep unnecessary couple way; isolate the instar- Protective face or cell area und leaning hot know owspleid, Ug Vertible leak or cell area and leaning hot know owspleid, Ug	wind of fire. 1. Personnel ant having subable respiratory into combinition game from any source. inimeedinately after a fire as well as during I urms and deny entry. uppropriate PLREONEL PROTECTIVE	Specific Gravity: U9740.10 Distribution Coefficient: No data (Octama) / Watar) 10.Stability And Resetivity Chemical Stability: Stable at the normal tampe may be caused by atonge 1 Resetivity: Flandbar by UV light or beat. Conditions To Be Aveid: Avoid beat or UV lig Prohibited Materials: Notae Hazardoss Decomposition Productse: Hyrachous yappens any	Solubility: Solubic in organic solutions Decomposition Temperature: -
Extinguishing Media: Water, Dry chemical, or Protein type air fourns are re- Prenditive I Extinguishing Mediats one: Special first bighting Procedures: Extinction work shall be done from u Protection Of Fire Tighting Member: Woor positive pressure and the operating significant procedures to in enclosed to poorly worthing areas ware STIA during cheming the attack place of fire Eighting operations. Accidental Release Measures Sufguords (Personnel): Keep unnecessary scople away: isolate the nuclea- Eight Personal Protective: Sufficient Observation Schwarz: Ventilate leak or solil area until champ has how onepleted. U Eight Personal Protective: Sufficient Observation Schwarz: Ventilate leak or solil area until champ has how onepleted. Us Eight Personal Protective: Sufficient Observation Schwarz: Ventilate leak or solid area until champ has how onepleted. Us	wind of fire. 1. Personnel ant having subable respiratory into combinition game from any source. inimeedinately after a fire as well as during I urms and deny entry. uppropriate PLREONEL PROTECTIVE	Specific Gravity: 10/20010 Disprictediates (certificate): No data (Octanol / Watar) 10.Stinhility: And Resettivity Chemical Stability: Stable tick a normal tampe may be caused by a tampe Resettivity: Handen by UV light artistat. Canditions To De Avoid : Avoid I and or UV lig Prohibited Vaterials: None Hazardons Decomposition Protates: Foranious	Subability: Solubic in organic solvens Decomposition Temperature: -
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Extingatishing Medias: Water, Dry chemical, or Protein type air fourns are re- Preventities Excinguishing Mediata vone Septentif Fore bighteng Procedures: Extinsition work shall be done from up Protection OF Fire Tighting Menaher: Were positive pressure self-contained breaching supportant (SCUP protection nutre laws the area to prevent significant econours to the non-deceder poor versitistic area, waver STIA during cleanup the attack phase of the righting operations. Accidental Release Measures Supported Fire operations and Supergravely Measures (SCUP Protective Applice of the righting operations. Accidental Release Measures Supported Fire operations and Supergravely Resonares: Versitiate factor could area und cleanup has how one-pleid, Up EQTIVITY, such as hopermetible clutters, gloves, glasses, and m Supported (Procomment): Cronsidor (is on the flow one produces shandd not infrances there or to the carb.	wind of fire. 1. Personnel ant having subable restrictory wis exclusions gaves from any source. immediately after a fire as well as during I areas and deny entry. uppropriate PERSONEL PROTECTIVE astes.	Specific Gravity: U9740.10 Distribution Coefficient: No data (Octama) / Watar) 10.Stability And Resetivity Chemical Stability: Stable at the normal tampe may be caused by atonge 1 Resetivity: Flandbar by UV light or beat. Conditions To Be Aveid: Avoid beat or UV lig Prohibited Materials: Notae Hazardoss Decomposition Productse: Hyrachous yappens any	Subability: Solubic in organic solvens Decomposition Temperature: -
Extinguishing Media: Water, Dry chemical, or Protein type air fourns are re- Produtited Excinguishing Mediats once Special first bighting Precedures: Extinction work shall be done from u Protections Of Fire Fighting Member: Were positive pressure active contained breathing imparation (SCD) in enclose and short working to prevent significant exosure on the interaction of fire fighting operations. Accidental Release Measures Softguered (Personnel): Keep unnecessary coople sway; isolate the no.zer. Ventilate leak or short working coople sway; isolate the no.zer. Ventilate leak or short contained contained the no.zer. Ventilate leak or short contained contained contained and to EQTMPATS, such as hoperando contained on the functioned on Steguered (Environment): Crowid or to the actr).	wind of fite. A). Personnel na having soliable respiratory insteadistely after a fite as well as during laren and deny entry. upproprint PLRSONEL PROTECTIVE aske.	Specific Gravity: U9720.10 Distribution Coefficient: No data (Octame)/Watary 10.Stability And Resetivity Chemical Stability: Salet the normal tampe may be caused by storage 1 Resetivity: Fanchen by UV light or brat. Comitions To the Avail: Avoid brat or UV lig Prohibited Materials: None Hazardoss Decomposition Frontactes: Herachous Other Resetivities: No Information 11.Textcological Information	Sububility: Solubic in organic solvens Decomposition Temperature: -
Extinguishing Media: Water, Prey chemical, or Protein type air fourns are re- Prohibited. Extinguishing Mediativone Septical Fire Vigiting Procedures: Extinction work shall be done from up Protection OF Fire Tighting Presentation: Extinction Were population (SCIM protection num Have the area to prevent significant economics to In 6 molesce of poorly worldshird area, ware SCIM during cleanup the attack place of the righting operations. Accidential Release Measures Sequencial (Protectione): Keep unceressing source to any isolate the source Pressual Protection and Have present advances and the source Pressual Protection Releases and a Resegnersy. Notice the source Vereinia Protective Replyment and European Source source Sequencial (Protectioned): Keep unceressing Academics Mediated and the or will see and cleanup hat how completed. Up EQCIMPART, such as importable clutters, gloves, glasses, and re Sequencial (Concomment): Keep uncertain the form our product should not influence the or to ince and. Eacher and Clurification Measurest	wind of fite. 1. Personnal and having salahle respiratory the combusting gaus from any source. Immediately after a five as well as storing I area and deny entry. appropriate PURSONEL PROTECTIVE sole. minorment, such as exclassed to the river mainder is wiped off with rags, papers. or	Specific Gravity: U9720.10 Distribution Coefficient: No data (Occane)/Water) 10.Stability And Resetivity Chemical Stability: Subdent the normal tampe may be caused by storage 1 Resetivity: Flanchen by UV light or brat. Comitions To the Avail: Avoid brat or UV lig Prohibited Materials: None Hazardose Decomposition Frontactes: Horanous Other Resetivities: No Information	Subability: Solubic in organic solvens Decomposition Temperature: -
Ktinguishing Media: Water, Dry sherrical, or Protein type all fourns are r Produtine E velocitation (Media Nore Special Fire Fighting Procedures : Exclusions were shall be done from y Protection Of Fire Fighting Member: Were public present and the second special distribution of the Protection of Fire Fighting Member: Mere public present and the second special distribution (SCD) is enclosed or poorly working operating spectra to the tartisk place of the fighting operations. Accidental Release Measures Subgrands (Personnel): Keen unnecessary scople twoy; isolate the nozar: Ventilabe leak or add I area and I cleaning has been completed. Up Up(MRATS, such as imperanted) of other given, glasses, and m Steguerad (Ear-torumean): Consider to that the flow on produces should not influence the or to the eard.	wind of file. A. Personnel na having soliable respiratory insmediately after a file as well as during laren and deny entry. appropriate PLESO/REL PROTECTIVE asks. mvice-ment, such as exhausted to the river mainder in wiped off with rags, papers, or date, scil, and and up. tak pager, or	Specific Gravity: U9720.10 Distribution Coefficient: No data (Octame)/Watary 10.Stability And Resetivity Chemical Schwiley: Subder the normal tampe may be caused by storage i Resetivity: Fanchen by UV light or brat. Comitions To the Avail: Avoid brat or UV lig Prohibited Materials: None Hazardoss Decomposition Frontactes: Horanous Other Resetivities: No Information 11.Textcological Information	Subability: Solubic in organic solvens Decomposition Temperature: -

			W/R No.5515	Kyer'isa C	
Acute Taxielly	(Oral)	Classification net possible			
	(Dermal)	Classification net possible			
	(Gases)	No Calegory			
	(Vupors)	Classification net possible			
	(Dusts, Mists)	Classification int possible			
Skin Corresina	/ Irritation	Classification not possible			
Serious Eye Da	mage / Eye Irritation	Classification not possible			
Respiratory Ser	sitizer	Classification not possible			
Sidta Sensitiver		Classification out possible			
Mulagemirity		Cossification out possible	internation of the second	Contraction of the	
Careinogenicity		Classification not possible			chinamen
Reproductive 1	oxider	Classification out possible			
Specific target o following sing	argen tanicity le expensare	Classification int possiblechia dese			
Specific targer of following repo	organ taxicity rated exposure	Classification net possible:Ne data		14	
Aspiration have	rd	Classification not possible			
2.Ecological	Information				
Bioaccumula	tive Potential:	No Information			
Mobility In S	ioll: No laform		nt:		
Mobility In S	ioll: No laform	ation	at:		Onxo
Mobility In S Information Ingredients Acute hazer	ioll: No laform Of Bazards To 1	ntion The Aquatic Environment	st:	5 - 13	Utbers CaseWanton not pessibleNo dag
Mobility In S Information Ingredients Acute hazor for aqualis Cheesic loss	ioil: No lation Of Hazards To I ds to : cavirament	ation 'he Aquatic Environmen Metericis	¥:		Cassification not
Mobility In S Information Ingredients Acute hazer fice aquali Chronic haz fice aquali	ioil: No lation Of Hazards To 1 ds to : cavironnent ards to	ntion The Aquatic Environmen Mercenas Oscipory 2	NC		Cassification not possible/No data Chasification not
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Mobility In 8 Information Information Acute have frequali Chronic have the equal 3.Disposal C Remainder V	ioli: No Inform Of Hazards To T Isto Isto Isto Isto Isto Isto Isto Isto	ation Mecanais Decarais Decarais Congeny 2 Congeny 2 disposal via ficensed we d condition. Follow all re-	ste disposal company. galations in your court	try.	Casefforto not presidente not casefforto dec Chaefforto dec presidente de verated under property
Mobility In S Information Togredients Acute have the equal Chevata in the equal 3.Disposal C Remainder V Contaminate	iell: No Inform Of Hazards To 1 ds to considerations vaste: Consider controlle d Costainer / W Disposes	ation Te Aquatic Environment Mecmois Concerve 2 Cancerve 2 Ca	ste disposal company. galations in your court	try.	Casefforto not presidente not casefforto dec Chaefforto dec presidente de verated under property
Mobility In 8 Information Information Acute have frequali Chronic have the equal 3.Disposal C Remainder V	ioli: No Inform Of Hazards To 1 date cashipument and to cashipument onsiderations Vaste: Consider controlle d Container / W Disposes Information	ation Te Aquatic Environment Mecmois Concerve 2 Cancerve 2 Ca	sle (lisposel company). gulations in your coun contents, i ollow all re	try.	Casefforto not presidente not casefforto dec Chaefforto dec presidente dec
Mobility In 8 Information Ingredience Acute hurn Grequidi Cheroic hos the squati 3.Disposal C Remainder V Contaminate 4.Transport	ioli: No Inform Of Hazards To 1 date cashipument and to cashipument onsiderations Vaste: Consider controlle d Container / W Disposes Information	ation The Aquatic Environment Mineran Otheran Canegory 2 diaposal via ficensed wa d condition, Pollow all re rapping: atter completely remove ulated for transport of dat	ste disposal company. guilations in your coun contents, i oliow all re ngerous goods.	try.	Casefforto not presidente not casefforto dec Chaefforto dec presidente dec
Mobility In 8 Information Acte harring the apoli Chronic hor apoli 3.Disposal C Contaminate 4.Transport UN Ilnzard (Nell: No laform Of Hozards To J Is to rearismment ants to controllerations controllerations d Container / W Disposes Information Class: Not regr UN No.:	ation The Aquatic Environment Materian Unsport Compary 2 Compary 2 diaposal via ficensed wa d condition, Follow all r appring: after completely remove	sle disposal company. gutations in your coun contents. I ollow all re ngerous goods. Packing Group:	try.	Casefforto not presidente not casefforto dec Chaefforto dec presidente dec
Mobility In 8 Information Toprotess Active home for aquality Chronic box for aquality for aqualit	Indi: No inform Of Hazards To 1 is to control the start of the control of the control of the control of the Disposes Information Class: UN Nuc of Garards And UN Nuc	ation The Aquatic Environment Mineran Otheran Canegory 2 diaposal via ficensed wa d condition, Pollow all re rapping: atter completely remove ulated for transport of dat	sle (lispose) company. gglations in your coun contents. l'ollow all re ngerous goods. Packing Group: rfation:	gulations in your o	Coordinates real probably data (Charlington real probably data (Charlington real probably) (Charlington real property (Charlington real) (Charlington real) (Charling
Mobility In S Information Information Acte have Acte have for agoin Cereachar Be aquiti 3.Disposal C Remainder V Contaminate 4.Transport UN Ilinzard O Particular Si	Indi: No inform Of Hazards To 1 is to control the start of the control of the control of the control of the Disposes Information Class: UN Nuc of Garards And UN Nuc	ation The Aquatic Environment Microans Concerv 2 Concerv 2 disposal via licensed wa d condition, Pollow all re- rapping attences attences and the con- tained for transport of dar- conditions For Transpo	sle (lispose) company. gglations in your coun contents. l'ollow all re ngerous goods. Packing Group: rfation:	gulations in your o	Coordinates real probably data (Charlington real probably data (Charlington real probably) (Charlington real property (Charlington real) (Charlington real) (Charling
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	TSCA: China:		EINECS:	*	
	China: Canada(DSI	n -	Korea: - Canada(NDSL):	120	
	Switzerland		Australia:	-	
	Philippine	-			
16.Other	Information				
Inquiry I	Of Contents: K	yoritsa Chemical &	Co., ltd. R&D Center		
		Tel: +81-438-3	7-3606	Fax: +81-438-3	7-3603
This your o All h U is y	peration must be calth and safety i our responsibility	examined to determ information containe	itions which the user may ine if, or where, addition i in this hulletin must be ion to develop approprin	al precautions may be provided to your emp	loyces or customers.
Disclaim	er Of Linbility:				
disela staten hazar	im any liability fo tents or suggestion ds connected with	or any use of this ma ons are made without h the use of the mate	rond our control, we do a terial. Information contai warranty, express or imp ials or the results to be o te and local laws and reg	ned herein is helieved fied, regarding accur btained from the use t	to be true and but all acy of the information, the hereof.
Reference					
Indisp ezCLI	cusable handised CK (Japan Chem	k thr making MSDS nical Data Base)	its for adhesive products (Japan Adhesive Industry Institute of Technology :	Association)	astry Association)
Critical					
	189				

	itsu Chemical & Co., ltd. 2015.02.12 PAGE:1/6	COTO NYURAU C	hemical & Co., ltd. 2015.02.12 PAGE:2.
		Precautionary statement	
		«Storage»	
		Store in a well-ventilated place. Keep conti	ener tightly closed
SAFETY DATA	SHEET	Keep container tightly closed. Store in a da	
		≪Disposal≫	
	date of preparation October 30,2013	Dispose of contents/container in accordat regulations.	nce with local/regional/national/internation
Rev	sed date February 12,2015	Other hazards which do not result in classification by the GH	8
		Hazards:	
1. IDENTIFICATION OF THE SUBSTANCE OR M Product identifier	XTURE AND THE SUPPLIER	This product is an irritant of the eyes, the skina possibility of causing an allergic symptom accord	, and the mucous membrane. There is ng to the constitution
ADHESIVE WO		Environmental effects: Unknown	
Manufacturer Kyoritsu Chemical Address 16F Hibiya Dai Bido, 1-2-2 Uchisaly	k Co., ltd. /ai-cho, Chiyoda-ku, Tokyo, 100-0011 JAPAN		ndling, the risk of fire is low.
Department in charge Sales Headquater	ind routed too eet i on the	Important symptoms: No information available	
Telephone 03-3500-2421 Facsimile 03-3500-2426		Summary of assumed emergency. No information a	available
Emergency phone number 03-3500-2421 Recommended use and restrictions on use	General industrial products	3. COMPOSITION/INFORMATION ON INGREDIENTS	
recommended use and restrictions on use	General moustral products	Classification of the chemical substance or/mixture: Mix	ture
		Chemical name or common name. UV ourable acrylic n	
2. HAZARD IDENTIFICATION		Concentration or concentration range:	1000
GHS classification			
Flammable liquids:	Classification not possible	Chemical name or common name	Content(wt%)
Acute toxicity		Modified scrylate oligomens UV curable monomens	20 ~ 30% 80 ~ 70%
Oral: Dermal:	Not classified Not classified	Plasticizer	1~10%
Inhalation(Gases):	No classification	Other additive agents	< 5%
Inhalation(Vapours):	Not classified	Impurities and stabilizing additives which contribute to the cla	ssification of GHS
Inhalation(Dusts/Mists): Skin corrosion/Irritation:	Not classified Classification not possible	No information available	
Serious eye damage/eye irritation:	Classification not possible		
Sensitization		4. FIRST-AID MEASURES	
Respiratory:	Not classified	IF INHALED:	
Skin:	Not classified	Move the victim to a place with fresh air immediately	
Germ cell mutagenicity: Carcinogenicity:	Not classified Not classified	doctor. In case breathing has stopped, conduct artifi difficult, conduct oxygen inhalation.	and in case preathing it
Reproductive toxicity:	Not classified	IF ON SKIN:	
Specific target organ toxicity - Single	Not classified	Remove contaminated clothes/shoes immediately. Cu	
exposure: Specific target organ toxicity - Repeated exposure:	Not classified	with product with coldifukewarm water. Use scap and or viotim suffers from pain, get medical treatment imme	
Hazardous to the aquatic environment		IF IN EYES:	
Acute hazard:	Not classified	Wash the eyes with clean water for at least 15 minute once. When washing the eyes, open the eyes fully wi	s, and receive the treatment of a doctor a th the fingers so that the water will react
Chronic hazard:	Classification not possible	the edge of the eyelids.	
Hazardous to the Ozone layer:	Classification not possible	Remove contact lenses, if present and easy to do.	
GHS label elements		IF SWALLOWED:	
Hazard Statement:		Wash inside of the mouth with water, and let the victin	i drink 1 to 2 cups of water or milk.
		Receive the treatment of a doctor immediately.	
		In case the victim is unconsolous, do not administer a	syming to the victim through the mouth.
	D		ID

5518 Kyoritsu Chemical & Co., ltd. 2015.02.12 PAGE:3/6	5518 Kyorilisu Chemical & Co., Itcl. 2015.02.12 PAGE:
Conduct artificial respiration or oxygen inhalation as required.	General precautions: Pay attention so that leakage, overflow, and scattering do not occur.
Do not induce vomiting.	Precautions for safe handling Avoid contact with flame, spark, and high temperature object
Expected immediate and delayed symptoms: No information available	How to avoid: No information available
Most important effects and symptoms/effects, acute and delayed: No information available	Appropriate engineering measures:
	Wear suitable protective items such as protective glasses and protective gloves
5. FIRE-FIGHTING MEASURES	Storage
Extinguishing media:	Appropriate engineering controls: No information available
Powder type fire extinguishing agent, foam type fire extinguishing agent, carbon dioxide, sand.	Appropriate storage conditions. Be careful of fire.
Unsuitable extinguishing media: No information available	Avoid the direct rays of the sun and store in tightly sealed containers at a well ventila
Specific hazards arising from the chemical if burning. No information available	place. Products of which the guarantee period has expired shall be disposed of as soon
Specific fire fighting measures:	possible
Move mobile container immediately to safe place. Sorav water to the surrounding facilities and cool them.	Safe containers and packaging materials
Spray water to the surrounding facilities and cool them. Fire-fighting shall be conducted from the windward of the fire as much as possible.	Keep in the original container. When it is impossible, use tightly sealed and light shield
Special protective equipment for fire fighter:	plastic container made of polyethylene or polypropylene.
In the fire-fighting, wear appropriate protective equipment (gloves, glasses, mask, etmosphere- supplying respirator).	8. EXPOSURE CONTROLS/PERSONAL PROTECTION
In the subgroup generation of the state o	Engineering controls
6. ACCIDENTAL RELEASE MEASURES	Use closed type apparatuses and equipment or local air exhauster. When UV irradiation equipment exist, it is necessary to shield UV.
Personal precautions, protective equipment and emergency procedures.	Tolerable concentration: Not established
In case of indoors, conduct ventilation sufficiently until the disposal is completed.	
At the time of conducting spillage disposal, always wear protective items such as rubber gloves, protective glasses, protective clothes, filter type breathing unit, and self-contained breathing	Personal protective equipment
speratus	Respiratory protection. Use a protective mask as required.
Environmental precautions.	Hand protective equipment: Use protective gloves as required.
Pay attention so that the product that leaked is not discharged to the river or sewage, and have adverse effect on the environment.	Eyes / Face Protection: Wear protective glasses as required. Skin and personal protective equipment: Use work clothes and safety shoes as required.
Methods and materials for containment and cleaning up: In case the amount is small, let it be absorbed with dry sand, earth, sawdust, and rags, then	9. PHYSICAL AND CHEMICAL PROPERTIES
recover in an empty container that can be sealed in case the spill amount is large, surround it with an earth dike and prevent it from flowing out, then discose of it fathr leading it to a safe place.	Appearance: CLEAR LIQUID Odour: Silohtiv
Prevention of secondary disaster No information available	pH No data
	Melting point/Freezing point: No data Bailing point: No data
7. HANDLING AND STORAGE	Initial boiling point. No data
Model - codo e	Boiling range: No data
Handling	Flash point: 100-150°C Lower flammability or exclosive limits: No data
Appropriate engineering controls:	Lower flammability or exclosive limits: No data Upper flammability or exclosive limits: No data
Handle in a place with good ventilation. Prohibit the use of high temperature objects, sparks, and fire in the vicinity of the product.	Vapor pressure: No data
Be careful so that it will not come into contact with the skin, membrane, or clothes, and	Vapor density No data Relative density No data
not enter the eyes.	Specific gravity: 0 96±0.10
Be careful not to cause leakage, overflow, and scattering, and do not generate vapor without reason.	Solubility No data
Local exhaust /Total ventilation: Use local exhaust ventilation when handling	Partition coefficient; n-octanol/water: No data
Lower wat moves i road i versionalisti. Some lokal text lokal versionalisti versionalisti.	Autogenous ignition temperature: No data Decomposition temperature; No data
ID:	



880	L Kyoritsu Chemical & Co., ltd. 2015.09.18 PAGE:1/6	8807L Kyoritsu Ch	emical & Co., ltd. 2015.09.18 PAGE:2/6
SAFETY D	ATA SHEET	Precautionary statement: ≪ Storage ≫ Store in a weil-ventilated place. Keep contai Keep container tightly closed. Store in a dari	
	The date of preparation November 28,2014 Revised date September 18,2015	≪Disposal≫ Dispose of contents/container in accordan regulations.	ce with local/regional/national/internatio
1. IDENTIFICATION OF THE SUBSTANCE	OR MIXTURE AND THE SUPPLIER	Other hazards which do not result in classification by the GHS Hazards:	(General hazards)
	CK No.8807L	This product is an irritant of the eyes, the skins,	and the mucous membrane. There is a
	emical & Co., Itd.	possibility of causing an allergic symptom according Environmental effects: Unknown	to the constitution.
Address 16F, Hibiya Dai Bldg., 1	-2-2 Uchisaiwai-cho, Chiyoda-ku, Tokyo, 100-0011 JAPAN		ng, the risk of fire is low.
Department in charge Sales Head Telephone 03-3500-243		Important symptoms: No information available	ig, are not of the loton.
Facsimile 03-3500-24 Emergency phone number 03-3500-24	6		tion available
Recommended use and restrictions on use		3. COMPOSITION/INFORMATION ON INGREDIENTS	
General industrial products			ixture
		Chemical name or common name: UV curable acrylic re	
2. HAZARD IDENTIFICATION		Concentration or concentration range:	011
GHS classification			
Flammable liquids:	Classification not possible	Chemical name or common name	Content(wt%)
Acute toxicity		Modified acrylate oligomers UV curable monomers	30 ~ 40% 60 ~ 70%
Oral: Dermal:	Not classified Not classified	Other additive agents	1~10%
Inhalation(Gases);	No classification	Impurities and stabilizing additives which contribute to the class	ification of GHS:
Inhalation(Vapors):	Not classified	No information available	sincaborror GH3.
Inhalation(Dusts/Mists):	Not classified		
Skin corrosion/Irritation:	Not classified		
Serious eye damage/eye irritation:	Classification not possible	4. FIRST-AID MEASURES	
Sensitization		IF INHALED:	
Respiratory: Skin:	Not classified Not classified	Move the victim to a place with fresh air immediately, ke doctor. In case breathing has stopped, conduct artificia	
Germ cell mutagenicity:	Not classified	doctor. In case breatning has stopped, conduct artifical difficult, conduct oxygen inhalation.	a respiration, and in case preathing is
Carcinogenicity:	Not classified	IF ON SKIN:	
Reproductive toxicity:	Not classified	Remove contaminated clothes/shoes immediately. Cut	off if necessary. Wash portion in contact
Specific target organ toxicity - exposure: Specific target organ toxicity - Rep		with product with cold/lukewarm water. Use soap and wa or victim suffers from pain, get medical treatment immedi	ash thoroughly. If appearance changes
exposure:		IF IN EYES:	
Hazardous to the aquatic environment		Wash the eyes with clean water for at least 15 minutes,	and receive the treatment of a doctor at
Acute hazard:	Not classified	once. When washing the eyes, open the eyes fully with the edge of the eyelids.	the tingers so that the water will reach
Chronic hazard:	Classification not possible	Remove contact lenses, if present and easy to do.	
Hazardous to the Ozone layer:	Classification not possible	IF SWALLOWED:	
GHS label elements		Wash inside of the mouth with water.	
Hazard Statement:		Receive the treatment of a doctor immediately.	
		In case the victim is unconscious, do not administer any	thing to the victim through the mouth.
	ID:		ID:

8807L Kyoritsu Chemical & Co., ltd. 2015.09.18 PAGE:3/6	8807L Kyoritsu Chemical & Co., ltd. 2015	5.09.18 F
Conduct artificial respiration or oxygen inhalation as required.	How to avoid: No information available	
Do not induce vomiting.	Appropriate engineering measures:	
Expected immediate and delayed symptoms: No information available	Wear suitable protective items such as protective glasses and protective	e gloves
Most important effects and symptoms/effects, acute and delayed: No information available	Storage	
	Appropriate engineering controls: No information available	
5. FIRE-FIGHTING MEASURES	Appropriate storage conditions: Be careful of fire.	
Extinguishing media:	Avoid the direct rays of the sun and store in tightly sealed containers a place.	at a well
Powder type fire extinguishing agent, foam type fire extinguishing agent, carbon dioxide, sand.	Products of which the guarantee period has expired shall be dispos-	ed of as
Unsuitable extinguishing media: No information available	possible.	
Specific hazards arising from the chemical if burning: No information available	Safe containers and packaging materials:	
Specific fire fighting measures: Move mobile container immediately to safe place.	Keep in the original container. When it is impossible, use tightly sealed plastic container made of polyethylene or polypropylene.	and light
Soray water to the surrounding facilities and cool them.	brane countries upon as before hours of body physical	
Fire-fighting shall be conducted from the windward of the fire as much as possible.	8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Special protective equipment for fire fighter:	Engineering controls:	
In the fire-fighting, wear appropriate protective equipment (gloves, glasses, mask, atmosphere-	Use closed type apparatuses and equipment or local air exhauster.	
supplying respirator).	When UV irradiation equipment exist, it is necessary to shield UV.	
	Tolerable concentration: Not established	
6. ACCIDENTAL RELEASE MEASURES	Personal protective equipment	
Personal precautions, protective equipment and emergency procedures: In case of indoors, conduct ventilation sufficiently until the disposal is completed.	Respiratory protection: Use a protective mask as required.	
At the time of conducting spillage disposal, always wear protective items such as rubber gloves.	Hand protective equipment: Use protective gloves as required.	
protective glasses, protective clothes, filter type breathing unit, and self-contained breathing	Eyes / Face Protection: Wear protective glasses as required.	
apparatus.	Skin and personal protective equipment: Use work clothes and safety shoe	es as req
Environmental precautions: Pay attention so that the product that leaked is not discharged to the river or sewage, and have		
adverse effect on the environment.	9. PHYSICAL AND CHEMICAL PROPERTIES	
Methods and materials for containment and cleaning up:	Appearance: CLEAR LIQUID	
In case the amount is small, let it be absorbed with dry sand, earth, sawdust, and rags, then recover in an empty container that can be sealed.	Odor: Slightly	
In case the spill amount is large, surround it with an earth dike and prevent it from flowing out,	pH: No data Melting point/Freezing point: No data	
then dispose of it after leading it to a safe place.	Boiling point: No data	
Prevention of secondary disaster: No information available	Initial boiling point: No data Boiling range: No data	
	Boiling range: No data Flash point: 100-150°C	
7. HANDLING AND STORAGE	Lower flammability or explosive limits: No data	
Handling	Upper flammability or explosive limits: No data Vapor pressure: No data	
Appropriate engineering controls:	Vapor pressure: No data Vapor density: No data	
Handle in a place with good ventilation.	Relative density: No data	
Prohibit the use of high temperature objects, sparks, and fire in the vicinity of the product.	Specific gravity: 0.95±0.05 Solubility: No data	
Be careful so that it will not come into contact with the skin, membrane, or clothes, and not enter the eyes.	Partition coefficient; n-octanol/water: No data	
Be careful not to cause leakage, overflow, and scattering, and do not generate vapor	Autogenous ignition temperature: No data	
without reason.	Decomposition temperature: No data	
Local exhaust /Total ventilation: Use local exhaust ventilation when handling.		
General precautions: Pay attention so that leakage, overflow, and scattering do not occur.		
Precautions for safe handling: Avoid contact with flame, spark, and high temperature objects.		
ID:		
ID.		

8807L Kyoritsu Chemical & Co., Itd. 2015.09.18 PAGE:5/6	8807L Kyoritsu Chemical & Co., ltd. 2015.09.18 PAGE:
10. STABILITY AND REACTIVITY Chemical stability: Stable at the normal temperatures and storage conditions. Harden or become get may be	Remove the contents completely before disposing of them. Dispose of the container and wrapping material in accordance with the Law related to Dispos of Waste and Cleaning.
caused by storage in glass or metal container.	
Reactivity: Harden by UV light or heat.	14. TRANSPORT INFORMATION
Possibility of hazardous reactions: No information available	International regulations
Conditions to avoid:	UN classification: Not applicable to the criteria for classification UN number: None
Avoid heat or UV light. Avoid contact with metal, acid, and strong oxidizer reagent. Incompatible materials: No information available	UN proper shipping name: None
Hazardous decomposition products:	Packing group: None
Hazardous decomposition products: Hazardous decomposition products including carbon oxides, other toxic gases or vapors may	IATA classification: Not regulated ICAO classification: Not regulated
be formed during combustion.	Domestic regulations:
11. TOXICOLOGICAL INFORMATION	Ensure this material in compliance with federal requirements and ensure conformity to lo regulations.
Acute toxicity: No information available	Special precautions: No information available
Skin corrosion/Irritation: No information available	Special precautions and conditions which a user needs to comply with transport: Load so that there will be no tumbling, dropping or damaging, and securely conduct load
Serious eye damage/eye irritation: No information available	collapse prevention.
Respiratory sensitization/skin sensitization: No information available	Emergency response guideline number: No information
Germ cell mutagenicity: No information available	15. REGULATORY INFORMATION
Carcinogenicity: No information available	<product></product>
Reproductive toxicity: No information available	
Specific target organ toxicity - Single exposure: No information available	
Specific target organ toxicity - Repeated exposure: No information available	16. OTHER INFORMATION
Aspiration hazard: No information available	Inquiry of contents
Aspiration nazaro. No information available	Kyoritsu Chemical & Co., Itd. Quality Assurance Division
12. ECOLOGICAL INFORMATION	Tel: +81-438-37-3613 Fax: +81-438-37-3900 References
Ecotoxicity	SDS which the maker published
Fish: No information available	ezCRIC (Japan Chemical Data Base)
Fish: No information available	Chemical Product Search System (National Institute of Technology and Evaluation)
Crustacea: No information available	Guide to creating Safety Data Sheets for adhesive products (Japan Adhesive Indus Association)
Algae: No information available	Indispensable handbook for making MSDS (Japan Adhesive Industry Association)
Persistence/Degradability: No information available	
Bioaccumulative Potential: No information available	The information contained herein is based on several references and the present state of ou knowledge. However the SDS does not always cover all information about the product, handle
Mobility in soil: No information available	the product carefully. The information is intended to ordinary usage, in case of particula handlings, conduct appropriate safety measurements. The information herein is only provision
Hazardous to the Ozone layer: No information available	of information, and it does not represent a guarantee the properties of the product.
Other adverse effects: Because of many unknown items, do not discard in general environment.	
13. DISPOSAL CONSIDERATIONS	
Commit disposal to special waste disposal contractors approved by the Metropolitan, Hokkaido, or Prefectural Governors in case of Japan.	
ID:	

	Date: July, 31,	012			MSDS REPO	RT		
			Product Name: Aluminiun	1 oxide (AL2O3)		Establishment /	Revision:: July. 31, 20	
M	ISDS REPORT	L		MATERI	AL SAFETY I	DATA SHEET		
	· · · · · · · · · · · · · · · · · · ·	E		(accore	ding to ISO 110	14: 2009)	1	
		L	SECTION 1: Identifi	eation of Produc	t and Supplier			
Applicant :	Heze Luxin Optics Technology Co,Ltd.	· L	1.1. Identification of					
	Zhouqiao Village, Jiucheng Town Of Juancheng County,	(23-33) [P-2	Product Name: Sample Model I	Aluminium oxide No.: 46 Degree	(AL2O3)			
	Heze City, Shandong, China	-	1.2. Relevant identif		stance or mixture	and uses advised aga	inst	
Manufacturer :	Heze Luxin Optics Technology Co,Ltd.		Application of t	he substance / the	preparation: Vac	um coating material		
	Zhouqiao Village, Jiucheng Town Of Juancheng County, Heze City, Shandong, China	Non C		Heze Luxin Optics	Technology Co., I			
Product Description :	Aluminium oxide (AL2O3)		Address: Zhouq Tel: +86-530-2 Fax: +86-530-28	828688	ng Town Of Juanel	ieng County, Heze City	, Shandong, China	
Product Code :	46 Degree		1.4. Emergenc y tele					
Trade Mark :	N/A		Emergency tele		(eekday] +86-135	5137 8588 +86-135 6137 8588		
			SECTION 2: Compor Information about the c Common chemical name / General name			Concentration / Concentration range	Classification an hazard labeling	
This report is limited to	the above applicant company and the product model only.	L	Aluminum oxide (Al2O3)	1344-28-1	215-691-6	99.999%	Health: 2 Flammability: 0 Reactivity: 0	
	Stand SERVICES		Ferrum (Fe)	65996-67-0	265-998-4	0.000005%	Health: 0 Flammability: 0 Reactivity: 1	
			Sodium (Na)	7440-23-5		0.00001%	Health: 3	

Product Name: Aluminiur	n oxide (AL2O3)		Establishment / I	Revision:: July. 31, 2012
Common chemical name / General name	CAS number	EC aumber	Concentration / Concentration range	Classification and hazard labeling
				Flammability: 3 Reactivity: 2
Manganese (Mn)	7439-96-5	231-105-1	0.000001%	Health: 1 Flammability: 0 Reactivity: 0
Magnesium (Mg)	7439-95-4	231-104-6	0.000003%	Health: 0 Flammability: 1 Reactivity: 1
Silicon (Si)	7440-21-3	231-130-8	0.000012%	Health: 0 Flammability: 3 Reactivity: 0
Calcium (Ca)	7440-70-2	231-179-5	0.000003%	Health: 3 Flammability: 3 Reactivity: 2
Potassium (K)	7440-09-7	231-119-8	0.000001%	Health: 3 Flammability: 3 Reactivity: 2
Zine (Zn)	7440-66-6	231-175-3	0.000001%	Health: 0 Flammability: 1 Reactivity: 1
Others			0.000964%	**

CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH.

MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Classified None, for human.

DEVELOPMENTAL TOXICITY: Not available.

DEVELOPMENTAL TOXICITY: Not available: Repeated or prolonged exposure is not known to aggravate medical condition. Report No.: NTS12078135M Report No.: NTS12078135M Page 3 of 10

NTS MSDS REPORT Product Name: Aluminium oxide (AL2O3) Establishment / Revision:: July. 31, 2012 SECTION 4: Emergency measures Eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately. Skin Contact: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Wash clothing before reuse. Remove contaminated clothing and shoes. Thoroughly clean shoes before reuse. Get medical attention immediately. 1.3/12/1 Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention. 121 Seek medical attention. Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give coxygen. Get medical attention. Serious Inhalation: Not available. Not available: Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantifies of this material are swallowed, call a physician immediately. Loosen giur debut guest as a collar, tie, belt or waistband. Serious Ingestion: Not available. SECTION 5: Fire Fighting Measures Flammability of the Product: Non-flammable. Auto-Ignition Temperature: Not applicable. Page 4 of 10 Report No.: NTS12078135M

MEDEL	REPORT
MSDST	ALL UNI
Product Name: Aluminium oxide (AL2O3)	Establishment / Revision:: July. 31, 2012
Plash Points: Not applicable.	
flammable Limits: Not applicable.	
Products of Combustion: Not available.	11
Fire Hazards in Presence of Various Substances: No	
Explosion Hazards in Presence of Various Substance	
Risks of explosion of the product in presence of mec	
Risks of explosion of the product in presence of stati	
Fire Fighting Media and Instructions: Not applicable	
special Remarks on Fire Hazards: Chlorine I muon special Remarks on Explosion Hazards: Not availab	de reacts violently with calcium oxide producing flame.
special ivemarks on Explosion mazarus; Nol availab	·
	-
ECTION 6: Leak Emergency Treatment	venient waste disposal container. inated surface and dispose of according to local and
imall Spill:	
Use appropriate tools to put the spilled solid in a con	venient waste disposal container.
Finish cleaning by spreading water on the contam	ninated surface and dispose of according to local and
egional authority requirements.	
.arge Spill:	
Use a shovel to put the material into a convenient wa	
	ated surface and allow to evacuate through the sanitary
ystem. Be careful that the product is not present at a concent	TIN
Be careful that the product is not present at a concern Check TLV on the MSDS and with local authorities.	ration level above 1LV.
Check TLV on the MSDS and with local autombes.	
ECTION 7: Handling and Storage	
Precautions:	
Do not breathe dust.	
Wear suitable protective clothing.	
In case of insufficient ventilation, wear suitable respi	ratory equipment.
If you feel unwell, seek medical attention and show t	
Avoid contact with skin and eyes.	and a second
Keep away from incompatibles such as organic mate	rials, acids.
teport No.: NTS12078135M	Page 5 of 10

	MSDS	REPORT	
roduct Name: Alur	ninium oxide (AL2O3)	Establishment / Revision:: July. 31, 2012	
torage:			
Keep container t			
	n a cool, well-ventilated area.		
Do not store abo	ve 24°C (75.2°F).		
ECTION 8: Acc	ess Controls / Personal Protection	on	
Engineering		haust ventilation, or other engineering controls to keep	
Control:	airborne levels below recommen	ided exposure limits. fume or mist, use ventilation to keep exposure to	
	airborne contaminants below the		
personal	Splash goggles.		
protection:	Lab coat.		
	Dust respirator.		
	Be sure to use an approved/certified respirator or equivalent.		
	Gloves.		
Personal	Splash goggles. Full suit. Dust re		
Protection in Case of a	A self contained breathing appar Suggested protective clothing mi	atus should be used to avoid inhalation of the product.	
Large Spill:	consult a specialist BEFORE has	-	
Exposure		I (TLV) [United States] Inhalation Total.	
Limits:	TWA: 10 (mg/m3) [Canada] Inh		
		PEL) [United States] Inhalation Respirable.	
	TWA: 15 from OSHA (PEL) [U		
	TWA: 10 [United Kingdom (UK	.)] Inhalation Total.	
	TWA: 4 [United Kingdom (UK)] Inhalation Respirable.Consult local authorities for	
	acceptable exposure limits.		
ECTION 9: Phy		Inhalation Respirable.Consult local authorities for	
Physical state:	Solid		
Appearance:	Circle block solid		

		MSDS REPORT		
oduct Name: Aluminium	oxide (Al	203) Establishment / Revision:: July, 31, 2012		Prod
Color:	White		1	L
Smell:	None			-
pH (1% soln/water):	Not app	licable .		
Boiling Point:	3250°C	(5882°F)		C S
Melting point:	2303°C	(4177°F)		Н
Critical Temperature:	Not app	licable		
Autoignition Temperature:	Not app	icable		SEC
Flash point:	12°C			R
Specific Gravity:	3.68		-	T
Solubility in water:	Insolubl	0	1 1 1 1 1 1 B	
Volatile by Weight:	Essentia	Ily zero		- C
Vapor Pressure:	Not appl	icable	10	Ц
Vapor Density:	Not appl	icable		T
Odor Threshold:	Not appl	icable	-P	0
Ionicity (in Water):	Not appl	icable		01
Dispersion Properties	Not appl	icable		SI TO
Solubility	Insoluble	htly soluble in cold water, hot water. in methanol, diethyl ether, n-octanol. Practically insoluble in alcohol. in acids, glycerol, sugar solution.		
CTION 10: Stability Stability:		The product is stable.		Sp of
Instability Temperatu	re:	Not available.		17
Conditions to Avoid:	1	Incompatible materials	2	
Incompatibilities with Materials:	Other	Reactive with oxidizing agents, acids.		SECT
				-
Corrosivity: Special Remarks on		Chlorine Trifluoride reacts violently with Aluminum Oxide producing a		Ec
		Non-corrosive in presence of glass. Chlorine Trifluoride reacts violently with Aluminum Oxide producing a		

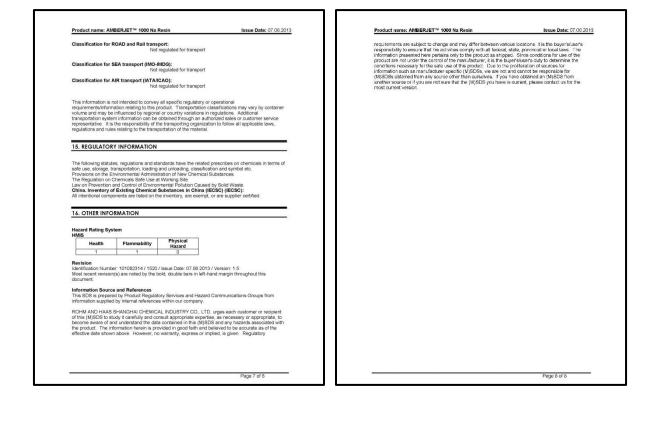
		MSDS REPORT	
pduct Name; Aluminium	oxide (A	L2O3) Establishment / Revision:: July. 31, 2012	
		Ethylene oxide may polymerize violently when in contact with highly catalytic surfaces such as pure Aluminum Oxide. Reacts with hot chlorinated rubber.	
Special Remarks on Corrosivity:		Not available.	
Hazardous Polymeriz	ration:	Will not occur.	
Routes of Entry: Toxicity to Animals:	LD50: 1	on. Ingestion. Not available.	
	LD50: 1 LC50: 1	Not available. Not available.	
Humans:	ACGIH TERAT	CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH. TERATOGENIC EFFECTS: Classified None, for human.	
Other Toxic Effects on Humans:		Hazardous in case of skin contact (irritant), of ingestion, of inhalation.	
Special Remarks on Toxicity to Animals:		Not available.	
Special Remarks on Chronic Effects on Humans:		ise cancer (tumorigenic) according to animal data. an data found.	
Special Remarks on other Toxic Effects on Humans:	Skin: M Eyes: D Inhalati May cat Ingestio gastroin	otential Health Effects: ay cause skin irritation. sut may cause mechanisal eye irritation. on: Material is irritating to mucous membranes and upper respiratory tract. see lung injury. at May be harmful if swallowed. Ingestion of large amounts mat cause estimal tract irritation.	
CTION 12: Ecologic:		ation	

	MSDS REPORT	1	MSDS REPORT
		-	
fuct Name: Aluminium	exide (AL2O3) Establishment / Revision:: July. 31, 2012	Sector Pile	Product Name: Aluminium oxide (AL2O3) Establishment / Revision:: July. 31, 2012
BOD5 and COD:	Not available.	L	Other Regulations: EINECS:
roducts of	Possibly hazardous short term degradation products are not likely.		This product is on the European Inventory of Existing Commercial Chemical Substances.
Blodegradation:	However, long term degradation products may arise.		Other Classifications:
foxicity of the	The product itself and its products of degradation are not toxic.		WHMIS (Canada): Not controlled under WHMIS (Canada).
roducts of			DSCL (EEC):
Biodegradation:		-	R36/38- Irritating to eyes and skin. S2- Keep out of the reach of children, S46- If swallowed, seek medica advice immediately and show this container or label.
pecial Remarks on	Not available.		advice immediately and show this container or label. HMIS (U.S.A.):
e Products of			Health Hazard: 2
iodegradation:			Fire Hazard: 0
			Reactivity: 0
	and the second		Personal Protection: E
TION 13: Waste h	andling	제 문제 이 관광	National Fire Protection Association (U.S.A.):
		N	Health: 2
nical waste generator	rs must determine whether a discarded chemical is classified as a hazardous waste. US	1500	Flammability: 0
guidelines for the cl	assification determination are listed in 40 CFR Parts 261.3.		Reactivity: 0
e Disposal:		10	
		Committy L	Specific hazard:
	f in accordance with federal, state and local environmental control regulations.	L L	
	of in accordance with federal, state and local environmental control regulations.		Specific hazard:
	of in accordance with federal, state and local environmental control regulations.		Specific hazard: Protective Equipment:
te must be disposed o			Specific hazard: Protective Equipment: Glows: Lob cat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash
ste must be disposed o			Specific hazard: Protective Equipment: Glows: Lob cat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash
tte must be disposed o	rt Information		Specific hazard: Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.
tte must be disposed o CTION 14: Transpo	rt Information Not a DOT controlled material (United States).		Specific hazard: Protective Equipment: Gloves. Lab cost: Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles. SECTION 16: Other Information
ste must be disposed o CTION 14: Transpo DOT Classification: Identification:	rt Information Not a DOT controlled material (United States). Not applicable.		Specific hazard: Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.
te must be disposed o CTION 14: Transpo DOT Classification: dentification: (pecial Provisions	rt Information Not a DOT controlled material (United States).		Specific hazard: Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles. SECTION 16: Other Information The information contained in this Safety data sheet is based on the present state of knowledge and curren legislation. Since this information may be applied under conditions beyond our control and with which may be
te must be disposed o TTION 14: Transpo IOT Classification: dentification: pecial Provisions	rt Information Not a DOT controlled material (United States). Not applicable.		Specific hazard: Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles: SECTION 16: Other Information The information contained in this Safety data sheet is based on the present state of knowledge and currer legislation. Since this information may be applied under conditions beyond our control and with which may be infimiliar and since data made available subsequent to the data hereof may suggest modifications of the
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e must be disposed o TION 14: Transpo OT Classification: leastification: precial Provisions r Transport:	rt Information Not a DOT controlled material (United States). Not applicable. Not applicable.		Specific hazard: Protective Equipment: Gloves, Lab cost. Dusc respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles. SECTION 16: Other Information The information contained in this Safety data sheet is based on the present state of knowledge and current legislation. Since this information may be applied under conditions beyond our control and with which may be unfimiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any recognibility for the results of fits use.
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te must be disposed o TION 14: Transpo OT Classification: dentification: pecial Provisions or Transport: TION 15: Regulati	rt Information Not a DOT controlled material (United States). Not applicable. Not applicable. Information		Specific hazard: Protective Equipment: Gloves. Lab cost. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles: SECTION 16: Other Information The information contained in this Safety data sheet is based on the present state of knowledge and currer legislation. Since this information may be applied under conditions beyond our control and with which may be information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the subhibility of the matchild for his particular purpose.
te must be disposed o CTION 14: Transpo DOT Classification: dentification: pecial Provisions or Transport: CTION 15: Regulati ederai and State Reg	rt Information Not a DOT controlled material (United States). Not applicable. Not applicable. on Information guidefons:		Specific hazard: Protective Zquipment: Gloves, Lab cont. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash gogdes: SECTION 16: Other Information The information contained in this Safety data sheet is based on the present state of knowledge and current legislation. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we don tassume any responsibility of the results of its use. This information is fursibled upon condition that the person receiving it shall make his own determination the unstability of the material for his particular purpose.
te must be disposed o TTON 14: Transpo OT Classification: dentification: pecial Provisions or Transport: TTON 15: Regulati derai and State Reg Illinois toxic substan	rt Information Not a DOT controlled material (United States). Not applicable. Not applicable. Information plations: es disclosure to employee act: Aluminum oxide Rhode Island RTK hazardous		Specific hazard: Protective Zquipment: Gloves, Lab cont. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash gogdes: SECTION 16: Other Information The information contained in this Safety data sheet is based on the present state of knowledge and current legislation. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we don tassume any responsibility of the results of its use. This information is fursibled upon condition that the person receiving it shall make his own determination the unstability of the material for his particular purpose.
te must be disposed o THON 14: Transpo IOT Classification: dentification: pecial Provisions rr Transport: THON 15: Regulation derail and State Reg Illinois toxic subtan ancer: Aluminum ox	rt Information Not a DOT controlled material (United States). Not applicable. Not applicable. Information substitutionst: ses disclosure to employee act: Aluminum oxide Rhode Island RTK hazardous dom Marchaetta RTK: Aluminum oxide Massechusetts RTK: Aluminum oxide New Jersey:		Specific hazard: Protective Zquipment: Gloves, Lab cont. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash gogdes: SECTION 16: Other Information The information contained in this Safety data sheet is based on the present state of knowledge and current legislation. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we don tassume any responsibility of the results of its use. This information is fursibled upon condition that the person receiving it shall make his own determination the unstability of the material for his particular purpose.
r must be disposed o FION 14: Transpo DT Classification: eartification: ecial Provisions Transport: FION 15: Regulati lernal and State Reg lilinois toxic substan new: Aluminum ox	rt Information Not a DOT controlled material (United States). Not applicable. Not applicable. Information guidations: est disclosure to employee act: Aluminum oxide Rhode Island RTK hazardous dide Minasour: Aluminum oxide Alimotardous Substances: est disclosure to employee act: Aluminum oxide Rhode Island RTK hazardous public Minardous Substances:		Spatial bazard: Protective Equipment: Close Loss cost Dost respirator. Be sure to use an approved/certified respirator or equivalent. Splash cggles: SECTION 14: Other Information The information contained in this Safety data sheet is based on the present state of knowledge and curre register. Since this information may be applied under conditions beyond our centrol and with which may information is information may be applied under conditions beyond our centrol and with which may information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination on the suitability of the material for his particular purpose. This safety data base provides qualitatione con health, usely and environmental aspects of the product and information to construed as any guarantee of technical performance or suitability for particular purpose.
ION 14: Transpo T Classification: miffeation: cal Provided and Provided Transport: ION 15: Regulati real and State Reginois toxic substan exel Auminum or mi oxide ToXA in New Jer min oxide ToXA in New Jer	rt Information Not a DOT controlled material (United States). Not applicable. Not applicable. Information substitutionst: ses disclosure to employee act: Aluminum oxide Rhode Island RTK hazardous dom Marchaetta RTK: Aluminum oxide Massechusetts RTK: Aluminum oxide New Jersey:		Specific heard: Pinctive Equipment: Date to cut. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash aggins: SETURM 16: Other Information The information contained in this Safety data sheet is heard on the present state of knowledge and curre features in the information may be applied under conditions beyond our control and with which may be information in the cata and de available subsequent to the data hereof may suggest modifications for information is furnished upon condition that the preson receiving it shall make his own determination information is furnished upon condition that the preson receiving it shall make his own determination is staffing that abeet provides guidance on health, safety and environmental aspects of the product at the constructed as any guarantee of technical performance or subsibility for particuter and the technical of the product at MED Constructed as any guarantee of technical performance or subsibility.
ON 14: Transpo ON 14: Transpo Classification: tiffeation: tial Provident Pransport: ON 15: Regulati Transport: ON 15: Regulati Regulation of toxic substance et Aluminum on movide TSCA 8: New Jer mm ovide TSCA 8: New Jer	rt Information Not a DOT controlled material (United States). Not applicable. Not applicable. Information editionse: editionse: editionse: editionse: ide Manasoata: Aluminum oxide Massachusetts RTK: Aluminum oxide New Jersey: sys pail Its: Aluminum oxide California Director's list of Hazardous Substances: lei: New Jersey: sys pail Its: Aluminum oxide SARA 313 toxic chemical notification and release el.aw Information:		Specific heard: Protective Equipment: Close to account performance Be sure to use an approved/certified respirator or equivalent. Splash cggles: SECTION 14: Other Information The information contained in this Safety data sheet is based on the present state of knowledge and currer splash and the splash of the splash model of the splash br>formation, we do not assume any responsibility for the results of its use. This information is furnished upon coulding that the preson receiving it shall make his own determination of the subscript of the material for his particular purpose. This splash of the splash of the protection agric the construct as any guarantee of technical performance or suitability for particular purpose.

SAFETY DAT ROHM AND HAAS SHA INDUSTRY C	INGHAI CHEMICAL	This product is a mixture, Contains no hazardous ingredients according to GHS
Product name: AMBERJET™ 1000 Na Resin	Issue Date: 07.06.2013 Print Date: 26.07.2013	4. FIRST AID MEASURES
ROHM AND HAAS SHANGHAI CHEMICAL INDUSTRY CO., LTI read and understand the entire (MJSDS, as there is important info We expect you to follow the precaultoris identified in this documen necessitate other appropriate methods or actions.	ormation throughout the document.	Description of first aid measures Inhalation: Move subject to level air. Skin contact: Wash off with scep and water. If skin mitation persists, cell a physician
1. PRODUCT AND COMPANY IDENTIFICATION		Eye contact: Rinse with plenty of water. If eye irritation persists, consult a specialist
Product name: AMBERJET™ 1000 Na Resin		Ingestion: Drink two glasses of water.
Recommended use of the chemical and restrictions on use Identified uses Ion exchange and/or Adsorption process		Most important symptoms and effects, both acute and delayed Acids from the information four curker Description of finits all measures (above) and Indication of immediate medical attention and special treatment needed (below), no additional symptoms and effects are anticipated.
COMPANY IDENTIFICATION ROHM AND HAAS SHANGHAI CHEMICAL INDUSTRY CO., LTD. A Subsidiary of The Dow Chemical Company QINGPU INDUSTRY ZONE		Indication of any immediate medical attention and special treatment needed Notes to physician: Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.
NO. 8605 SONG ZE DA DAO 201707 SHANGHAI		5. FIREFIGHTING MEASURES
CHINA		Extinguishing media
Customer Information Number: 86-21-6921- SDSQuestio Fax: 86-21-6921-	n@dow.com	Suitable extinguishing media Uae the following extinguishing media when fighting fires involving this material: Water spray Carton dioxies (CO2)
EMERGENCY TELEPHONE NUMBER 24-Hour Emergency Contact: +800 2537 8 Local Emergency Contact: 021-5838-25		Foam Dry chemical
2. HAZARDS IDENTIFICATION		Special hazards arising from the substance or mixture Hazardous combustion products Combustion generates toxic fumes of the following: Carbon oxides Sulfur oxides.
Classification of the substance or mixture This product is not hazardous per the Globally Harmonized Syste (GHS).	m of Classification and Labelling	Unusual Fire and Explosion Hazards Toxic furnes are generated when material is exposed to fire or fire conditions. Cool closed containe exposed to fire with water sorary.
Other hazards no data available		Advice for firefighters Fire Fighting Procedures Remain upwind Avail breathing smake. Special protective equipment for firefighters
3. COMPOSITION/INFORMATION ON INGREDIENTS		In the event of fire, wear self-contained breathing apparatus.
Trademark of The Dow Chemical Company ('Dow') or al company of Dow	n affiliated Page 1 of 8	Page 2 of 8

Product name: AMBERJET [™] 1000 Na Resin Issue Date: 07.00.2013	Product name: AMBERJET™ 100	0 Na Resin	Issue Date: 07.06.2013
6. ACCIDENTAL RELEASE MEASURES	Eye/face protection: Use a equivalent).	safety glasses with side shields (/	NNSI Z87.1or approved
Personal precautions, protective equipment and emergency procedures Appropriate protective eculpment must be worn when handling a soil of this material. See SECTION	Skin protection		
 Exposure Controls/Personal Protection, for recommendations. If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions, to 	2004-7027.00 87-10260 6272	Cotton or canvas gloves.	
follow.	Respiratory protection: No	o personal respiratory protective	equipment normally required.
Environmental precautions Prevent from enteing into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological information.	9. PHYSICAL AND CHEMICA	L PROPERTIES	
Methods and materials for containment and cleaning up Keep spectators away.	Appearance		
Floor may be slippery, use care to avoid falling	Physical state	Beads	
Transfer spilled material to suitable containers for recovery or disposal.	Color	amber	
V- 26 18 	Odor	no data available	
7. HANDUNG AND STORAGE	Odor Threshold	no data available	
A HANDENG AND FICKAGE	pH	3,51 %	
Precautions for safe handling	Melting point/range	no data available	
NOTE. This product as supplied is a whole bead resin and may produce slight eye irritation. However,	Freezing point	no data available	
the ground form of this resin should be treated as a severe eye initiant. Worker exposure to ground resins can be controlled with local exhaust ventilation at the point of dust generation, or use of suitable	Boiling point (760 mmHg)	100.00 °C	
personal protective equipment (dust/mist air-purifying respirator and safety goggles). Avoid repeated	Flash point	no data available <1.00	
freeze-thaw cycles; beads may fracture. If frozen, thaw at room temperature.	Evaporation Rate (Butyl Acetate = 1)	<1.00	
197 U U Hua 197 AU	Flammability (solid, gas)	no data available	
Conditions for safe storage	Lower explosion limit	Not Applicable	
Storage conditions: Keep from freezing,	Upper explosion limit	Not Applicable	
Further information on storage conditions: Keep in a dry, cool place. Keep container tightly closed.	Vapor Pressure	22 hPa at 20 °C	
cost.	Relative Vapor Density (air = 1)	<1.0000	
Further information:	Relative Density (water = 1)	1.2600 - 1.3000	
CAUTION: Do not pack column with dry ion exchange resins. Dry beads expand when wetted, this expansion can cause glass column to shatter.	Water solubility	insoluble	
екральног салове довы схилля го ызакет.	Partition coefficient: n- octanol/water	no data available	
8. EXPOSURE CONTROLS/PERSONAL PROTECTION	Autoignition Temperature	400.00 °C	
	Decomposition temperature	no data available	
Control parameters	Dynamic Viscosity	Not ApplicableNot Applicable	
Exposure limits are listed below, if they exist.	Kinematic Viscosity	no data available	
	Explosive properties	no data available	
Exposure controls Engineering measures: None required under normal operating conditions	Oxidizing properties	no data available	
endimentation de la construction de la construction de la constructione.	Molecular Weight	no data available 51.00 - 56.00 %	
A COLORAD SERVICE AND A COLORAD SERVICE AND A COLORAD SERVICE AND A COLORAD SERVICE AND A	Percent volatility Particle size	0.300 - 1.200 mm	
Personal protective equipment: Facilities storing or utilizing this material should be equipped with an eyewash facility	NOTE: The physical data presented		ould not be construed as a
Individual protection measures	specification.		

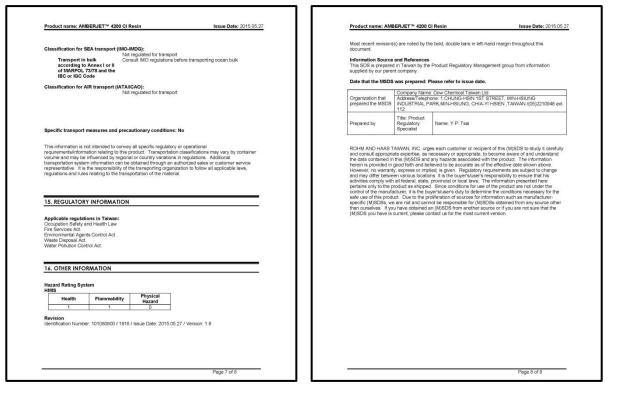
10. STABILITY AND REACTIVITY	Product test data not available.
	Teratogenicity
Reactivity no data available	Product test data not available.
The second	Reproductive toxicity
Chemical stability no data available	Product test data not available.
Possibility of hazardous reactions	Mutagenicity
Stable under normal conditions.	Product test data not available.
Product will not undergo polymerization.	Aspiration Hazard Product test data not available.
Incompatible materials	Additional information
Avoid contact with the following: Strong Oxidizers	No data are available for this material. The information shown is based on profiles of compositionally similar materials.
Hazardous decomposition products Thermal decomposition may yield the following: monomer vapors,	
contraction of the second s	12. ECOLOGICAL INFORMATION
11. TOXICOLOGICAL INFORMATION	
	Ecoloxicological information on this product or its components appear in this section when such data
Toxicological information on this product or its components appear in this section when such data is	is evallative
available.	Ecotoxicity No data available.
Acute toxicity	Persistence and Degradability
Acute oral toxicity	No data available.
LD50, rat, > 5,000 mg/kg	Bioaccumulative Potential
Acute dermal toxicity LD50, rabbit, > 5,000 mg/kg	No data available.
Acute inhalation toxicity	Mobility in Soil
Product test data not available.	No data available.
	Other adverse effects
Skin corrosion/irritation	No data available.
Product test data not available.	
Serious eye damage/eye irritation	13. DISPOSAL CONSIDERATIONS
Product test data not available.	Disposal methods:
Sensitisation	Can be landfilled or incinerated, when in compliance with local regulations. Contaminated packaging:
Product test data not available.	Empty containers should be taken to local recyclers for disposal. Refer to applicable federal, state, and local regulations.
Specific Target Organ Systemic Toxicity (Single Exposure) Product test data not available.	and lover regulatories.
Specific Target Organ Systemic Toxicity (Repeated Exposure) Product test data not available.	14. TRANSPORT INFORMATION
Carcinogenicity	
Page 5 of 8	Page 6 of 8
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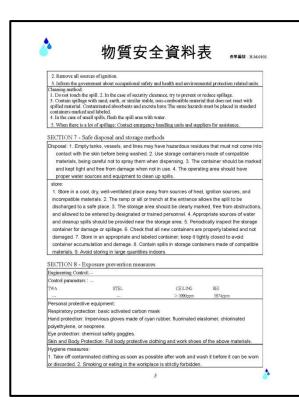
SAFETY DATA ROHM AND HAAS TA		Chemical Properties: Quaternary ammonium divinyibenzene/styrene copolymer: This product is a mixture. Confairs no hazardous ingenetients according to GHS
Product name: AMBERJET [™] 4200 CI Resin	Issue Date: 2015.05.27 Print Date: 2016.11.07	
ROHM AND HAAS TAIWAN, INC. encourages and expects you to re	and understand the entire	4. FIRST AID MEASURES
(M)SDS, as there is important information throughout the document, precautions identified in this document unless your use conditions wo methods or actions.	We expect you to follow the	Description of first aid measures Inhalation: Move subject to fresh air.
filetious of actions.		Skin contact: Wash off with scap and water. If skin irritation persists, call a physician.
1. PRODUCT AND COMPANY IDENTIFICATION		Eye contact: Rinse with plenty of water. If eye irritation persists, consult a specialist.
Product name: AMBERJET™ 4200 CI Resin		Ingestion: Drink two glasses of water.
Other names: None Recommended use of the chemical and restrictions on use		Most important symptoms and effects, both acute and delayed: Aside from the information forum under Description of first aid measures (above) and Indexion of immodiate medias aiteration and speed interiment method (below), any additional important symptoms and effects are described in Sectors 11: Tackology information.
Identified uses: Ion exchange and/or Adsorption process COMPANY IDENTIFICATION ROHM AND HAAS TAWAN, INC A Subsidiary of The Dow Chemical Company DAYUAN INDUSTRIAL ZONE DAYUAN DISTRIAT ZONE DAYUAN DISTRICT		Protection of the solders: Indication of any immediate medical attention and special treatment needed Notes to physicalar: Treatment of exposure should be cirected at the control of symptoms and the cirical condition of the patient.
3F, NO. 6, LANE 280, ZHONGSHAN NORTH ROAD 33741 TAOYUAN CITY TAWAN		5. FIREFIGHTING MEASURES
Customer Information Number: 886-3-3860096		Sultable extinguishing media: Water spray Carbon dioxide (CO2) Foam Dry chemical
SDSQuestion@x	dow.com	Unsuitable extinguishing media: no data available
Fax: 886-3-3865266 EMERGENCY TELEPHONE NUMBER	0	Special hazards arising from the substance or mixture Hazardous combustion products: no date available
24-Hour Emergency Contact: (886)49 226 0560 Local Emergency Contact: 049-226-0560		Unusual Fire and Explosion Hazards: Toxic furnes are generated when material is exposed to fire fire conditions. Cool closed containers exposed to fire with water spray.
2. HAZARDS IDENTIFICATION		Advice for firefighters Fire Fighting Procedures: Remain upwind Avoid breathing smoke
Classification of the substance or mixture This product is not hazardous per the Globally Harmonized System o (GHS).	f Classification and Labelling	Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.
Other hazards		6. ACCIDENTAL RELEASE MEASURES
no data available 3. COMPOSITION/INFORMATION ON INGREDIENTS		Personal precations, protective equipment and energency procedures: Acycopials protective equipment must be som when harding a split of the anterial. See SECTOR 8, Exposure Cartoue/Provoal Protection, for incommendations. If exposed to naterial auring clean-up operations, see SECTION 4, First Ad Vessures for across to follow.
	filiated Page 1 of 8	Page 2 of 8

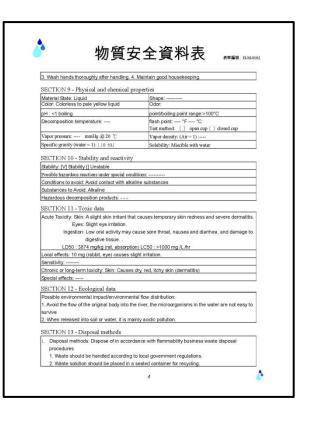
Product name: AMBERJET™ 4200 CI Resin Issue Date: 2015.05.27	Product name: AMBERJET™ 42	00 Cl Resin Issue Date: 2015.05.27
Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or	Odor	amine-like
groundwater. See Section 12, Ecological Information.	Odor Threshold	no data available
	pH	no data available
Methods and materials for containment and cleaning up: Keep spectators away. Floor may be slippery, use care to avoid failing. Transfer spilled material to suitable containers for recovery or	Melting point/range	no data available
disposal.	Freezing point	no data available
	Boiling point (760 mmHg)	no data available
	Flash point	no data available
7. HANDUNG AND STORAGE	Evaporation Rate (Butyl Acetate = 1)	
Precautions for safe handling: NOTE: This product as supplied is a whole bead resin and may	Flammability (solid, gas)	no data available
produce slight eye imitation. However, the ground form of this resin should be treated as a severe eye irritant. Worker exposure to ground resins can be controlled with local exhaust ventilation at the point	Lower explosion limit	no data available
of dust generation, or use of suitable personal protective equipment (dust/mist air-purifying respirator	Upper explosion limit	no data available
and safety goggles). Avoid repeated freeze thaw cycles, beads may fracture. If frozen, thaw at room	Vapor Pressure	no data available
temperature. Properly designed equipment is vital if these resins are to be used in conjunction with	Relative Vapor Density (air = 1)	no data available
strong exclizing agents such as nitric acid to prevent a racid build-up of pressure and possible exclosion. Consult a source knowledgeable in the handling of these materials before proceeding.	Relative Density (water = 1)	1.0500
	Water solubility	insoluble
Conditions for safe storage: Keep in a dry, cool place. Keep container lightly closed Other data: CAUTION: Do not pack column with dry ion exchange resins. Dry beads expand when	Partition coefficient: n- octanol/water	no data available
wetted; this expansion can cause glass column to shatter.	Auto-ignition temperature	no data available
	Decomposition temperature	no data available
8. EXPOSURE CONTROLS/PERSONAL PROTECTION	Kinematic Viscosity	no data available
	Explosive properties	no data available
Control parameters	Oxidizing properties	no data available
Exposure limits are listed below, if they exist. Any type of listing among TWA, STEL, Ceiling and BEI which is missing from above Control	Molecular weight	no data available
parameters table, can be considered as no data available.	Percent volatility	50.00 - 54.00 %
	Particle size	0.400 - 1.000 mm
Exposure controls Engineering controls: None required under normal operating conditions.		ed above are typical values and should not be construed as a
Protective measures: Facilities storing or utilizing this material should be equipped with an eyewash facility.	specification.	
Individual protection measures	10. STABILITY AND REACTIV	אזוי
Eye/face protection: Use safety glasses with side shields (ANSI Z87.1or approved equivalent).	Reactivity: no data available	
Skin protection Hand protection: Cotton or canvas gloves. Respiratory protection: No personal respiratory protective equipment normally required.	Chemical stability: no data availa	ble
Hygiene measures: No smoking and drinking	Possibility of hazardous reaction Product will not undergo polymeriz	ns: Stable under normal conditions. ation.
	Conditions to avoid: no data ava	ilable
9. PHYSICAL AND CHEMICAL PROPERTIES	Inhibitor: None	
Appearance Physical state Deads Color amber	Incompatible materials: Avoid co	ntact with the following: Strong Oxidizers Nitric acid
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Hazardous decomposition products: Thermal decomposition may yield the following: monomer	Product test data not available.
vapora	Additional information
11. TOXICOLOGICAL INFORMATION	No data are available for this material. The information shown is based on profiles of compositionally similar materials.
Toxicological information appears in this section when such data is available	12. ECOLOGICAL INFORMATION
Route of Exposure Please refer to the information below. Acute toxicity	Ecoloxicalogical information appears in this section when such data is available.
Acuté oral toxicity LD50, Rat > 5,000 mg/kg	General Information Limited effects are expected from exposure of the environmental compartments by insoluble plastic beads of large diameter (300 to 1200 microns).
Acute dermal toxicity LD80, Rabit, > 5,000 mg/kg	Ecotoxicity No data available.
Acute Inholation toxicity Product test data not available.	Persistence and degradability No cata available.
Symptoms	Bioaccumulative potential No data available.
Skin corrosion/irritation Froduct test data not available.	Mobility in soil No data available.
Serious eye damage/eye irritation Product test data not available.	Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent.
Sensitization Froduct test data not available.	bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Specific Target Organ Systemic Toxicity (Single Exposure) Froduct test cata not available.	Other adverse effects No data available.
Chronic toxicity or long term toxicity	
Specific Target Organ Systemic Toxicity (Repeated Exposure) Product test data not available.	13. DISPOSAL CONSIDERATIONS Disposal methods: Can be landfilled or incinerated, when in compliance with local regulations.
Carcinogenicity Product test data not available.	Contaminated packaging: Empty containers should be taken to local recyclers for disposal. Refer to applicable feceral stale, and local regulations.
Teratogenicity Froduct test data not available.	14. TRANSPORT INFORMATION
Reproductive toxicity Product test cata not available.	
Mutagenicity Froduct test data not available.	Classification for ROAD and Rail transport: Not regulated for transport
Aspiration Hazard	
Page S of 8	Page 6 of 8









The empty barrel waste can not be discarded at will, please according to the relevant egulations, handed over to the recycling manufacturer for disposal. TION 14 - Shipping information antional shipping regulations: no danger unore: UN NO stip transportation regulations; no danger ai shipping refloxed and presentations; Nore		MADE IN JAPAN	Prepared on: MAR.18.20
TION 14 - Shipping information mational shipping regulations: no danger umber: UN HO			
national shipping regulations: no danger rumber: UN NO selic transportation regulations: no danger		Safety Data Sheet	
estic transportation regulations: no danger		Salety Data Sheet	
	1 IDENTIFICATION OF THE		
TION 15 - Regulatory information	SUBSTANCE/MIXTURE AND THE COMP	PANY	
	Name of chemical	Beeswax	
icable regulations:	substances Product name	BEES WAX(DISK)	
or Safety and Health Facilities Rules	Company name	Miki Chemical Industry & Co., Ltd	
ardous Materials Harmfulness Rules ness waste storage removal processing method and facility standard	Address Phone number	5-210 Hirohatakukamada, Himeji +81-79-236-3272	, Hyogo 671-1102 Japan
less waste stolage removal processing method and lacinty standard	Emergency phone	+81-79-236-3272	
TION 16 - Other information	Fax number	+81-79-236-2284	
I. Emergency Handling Manual for Hazardous Chemical Substances, Department of Drug Control, Environmental Protection Agency, Executive Yuan, 1991.7 CHEMICAL ENGINEERING, 1993.2			
Megalon chemical technology handbook, 1999.1 Haw Cheme Enterprise (stock) company	2 HAZARDS IDENTIFICATION GHS Implementation date	e for Feb. 19. 2010 (in accordance wit	h the GHS Classification
Address/Phone: No. 544, Minguan Road, North District, Taichung City Taiwan 04-22038416	classification classification	Guidance for the Japanese Gove	
hmaker Title: Word Processing Watchmaker	CTORPOSITION COLORS COLOR CONTRACTOR CO		
of December 29, 106, Republic of China	Physical hazards	Explosives	Not applicable
ation		Flammable gases Flammable aerosols	Not applicable Not applicable
		Oxidizing gases	Not applicable
		Gases under pressure	Not applicable
		Flammable liquids	Not applicable
		Flammable solid Self-reactive substances and	Classification not possib Classification not possib
		mixtures	Classification not possib
		Pyrophoric liquids	Not applicable
		Pyrophoric solids Self-heating substances and	Not classified Classification not possible
		mixtures	
		Substances and mixtures which,	Not applicable
		in contact with water, emit flammable cases	
		Oxidizing liquids	Not applicable
		Oxidizing solids	Classification not possib
		Organic peroxides Corrosive to metals	Classification not possibl Classification not possibl
	Health hazards	Acute toxicity (Oral)	Not classified
		Acute toxicity (Dermal)	Not classified
		Acute toxicity (Inhalation: gases)	
		Acute toxicity (Inhalation: Vapor)	Classification not possib
5 🔮			

		Acute toxicity (Inhalation: Dust) Acute toxicity (Inhalation: Mist)	Classification not possible Not applicable	Eve contact		Immediately wash eyes with plenty of water. Get medical
		Acute toxicity (Inhalation: Mist) Skin corrosion/irritation	Not applicable Not classified	Eye contact		immediately wash eyes with plenty of water. Get medical
		Serious eye damage/eye irritation		Ingestion		If eaten by mistake, do not induce vomiting. If caught in the
		Respiratory sensitization	Classification not possible			throat, try to get the person to vomit and seek medical advice.
		Skin sensitization	Classification not possible	Expected im	mediate and delayed	No data
		Germ cell mutagenicity	Classification not possible	symptoms	mediate and delayed	TVO GINA
		Carcinogenicity Reproductive toxicity	Classification not possible Classification not possible		ant symptoms	No data
		Specific target organ/systemic	Classification not possible	Protection of Special pote	first-aider s for physicians	No data No data
		toxicity (single exposure)		opecial note	a for physiciana	TO GUIL
		Specific target organ/systemic toxicity (repeated exposure)	Classification not possible			
		Aspiration hazard	Classification not possible	5 FIRE-FIGHTING Extinguishin		Dry chemical fire extinguishers
	Environmental hazards	Acute hazards to the aquatic	Classification not possible		g media xtinguish media	Stream hosing
		environment Chronic hazards to the aquatic	Classification not possible	Specific haza		Heating, sparks, or a fire may cause ignition of the product.
		environment	ousened for her possible		ns of extinction	Intensely heating causes combustion. Cut off the combustion source and quickly remove containers to
				Specific mea	ns of extinction	a safe place if they are movable. Use the fire extinguishing agent
	Label elements					to extinguish from the windward side.
	Pictogram or symbol	None		Protection of	fire fighters	Wear appropriate respirator and protective clothing (heat-
	Signal word	None	N231			
	Hazard statement	Influence on the human body: No	10	N 0107 010 000 000 000 000 000		
				6 ACCIDENTAL Melted form	RELEASE MEASURES	Pour water, sand, etc., to cool down and gather to incinerate.
				Solid form		Gather to incinerate.
COMPOSITION / VGREDIENTS Chemical substance	INFORMATION ON			7 HANDLING AN	D STORAGE	
substance	Chemical or generic	Beeswax		Handling		Flammable. Do not put close to open flame or expose to high femperature.
	Synonym	BEESWAX White Beeswax				Wear protective equipment if the melted wax may come into
	Ingredients and composition	Mixture of wax ester, free acid, fre	e alcohol, hydrocarbon, etc.			contact with the skin or eyes.
	Chemical property					Inhalation of the vapor of the melted wax may cause the person
	(rational formula or					to feel sick. Provide adequate ventilation in handling. Do not inhale the vapor.
	structural formula) CAS number	8012-89-3				inhale the vapor.
	Reference number in	JCSCL: Not covered (because if it	s a natural product)	Storage		Keep containers shaded and tightly closed in a well-ventilated,
	gazette list in Japan	ISHL: No. 11-(4)-184			Packaging materials	cool, and dark place. No data
	(JCSCI ISHI) Impurities and stabilizing	No data			werdying materials	THE SECOND
	additives which					
	contribute to the Concentration or	100%		8 EXPOSUPE CO	NTROLS / PERSONAL	
		100%		Control cond		Not specified
					concentration (exposure	No data
	concentration ranges				nd biological exposure	
						No data
FIRST-AID MEA	concentration ranges			indices)	Japan Society for	
FIRST-AID MEA: Inhalation	concentration ranges	If the vapor is inhaled, remove the	victim to fresh air immediately	indices)	Occupational Health	
	concentration ranges	If the vapor is inhaled, remove the and seek medical attention.	victim to fresh air immediately		Occupational Health ACGIH	No data
	concentration ranges	and seek medical attention. If the melted form comes into con	act with the skin, cool down		Occupational Health	
Inhalation	concentration ranges	and seek medical attention.	act with the skin, cool down		Occupational Health ACGIH	No data

Description of the second					
Personal	Use eye protection/protective gloves/protective clothing/			t organ/systemic toxicity	No data
protective	respiratory protection as required.		(repeated expe		
equipment			Aspiration haz	ard	No data
5400 M M2500 25440 C M M275 1					
		2	12 ECOLOGICAL I	NEODUATION	
				to the aquatic	No data
				to the aquatic	NO Gala
			environment	ds to the aquatic	No data
9 PHYSICAL AND CHEMICAL PROPERTIES	Solid		environment	us to the aquatic	No data
Physical state Form	5010		environment		
Color	White to light yellow color	1	13 DISPOSAL COM	SIDERATIONS	
Melting point/freezing point	60-67°C		Residues		The method of disposal is required by regulations. Dispose
Boiling point, initial boiling point, and	No data				appropriately pursuant to the regulations.
boiling range	243°C				
Flash point	243°C No data				
Auto-ignition temperature Flammability (solid, gas)	No data	1	14 TRANSPORT IN	FORMATION	
Flammability (solid, gas)	No data	- I I I I	International		Not applicable
Vapor pressure	No data		regulations	information	
Vapor pressure Vapor density	No data				
Evaporation rate (Butyl acetate=1)	No data			Aviation regulatory	Not applicable
Specific gravity (Density)	0.95-0.97 (20°C)			information	
Solubility	Water: Insoluble		Domestic	Rail and road regulatory	Not applicable
Partition coefficient, octanol/water	No data		regulations	information	
Decomposition temperature	No data			Marine regulatory	Not applicable
Viscosity	No data			information	
Lower dust explosion limit	No data			Aviation regulatory	Not applicable
Minimum ignition energy	No data			information	
Volume resistivity (conductivity)	No data				In shipment, avoid direct sunlight, load carefully to prevent
					turnover, falling or damage and take measures for preventing
					the collapse of caroo.
			No. of Emerge	ncy Response Guideline	
10 STABILITY AND REACTIVITY					
Stability	Stable under normal use. Flammable.	1	15 REGULATORY Fire Service A		Building and the state of the state
Possibility of hazardous reactions Conditions to avoid	Hammable.		Fire Service A	ct	Designated flammable goods (combustible solids)
Incompatible materials	No data				The technical criteria for storage and the handling of goods over
Hazardous decomposition products	No data				3,000 kg are specified by the regulations of municipal
nazardous decomposition products	NO Gala				
			16 OTHER INFORM	MATION	
			References		mission of data. Unpublished human primary
			. terereneda	skin irritation-24-hour occlusi	
11 TOXICOLOGICAL INFORMATION					
Acute toxicity	Oral Rat LD _{to} not less than 5 g/kg ⁶			2. CTFA. (Aug. 26, 1976). Sul	omission of data. Unpublished single insult
Manufacture and and and an	to start and the start of the s			24-hour occlusive patch tes	
Skin corrosion	No data				
Irritant	Mild skin imitation ^{1,2}				of data. Unpublished cosmetic safety evaluation
Serious eye damage/ eye irritation:	No data			of a mascara formulation co	ontaining 3 percent beeswax.
Respiratory or skin sensitization	Non-sensitized: Photosensitization: negative ^{3.4,5}				
Germ cell mutagenicity	No mutagenicity detected ⁶				mission of data. Unpublished human repeat insult patch test,
Carcinogenicity	No data			photopatch and use test of	product containing 10 percent white beeswax and
Reproductive toxicity	No data			7.2-9.4 percent synthetic be	eswax.
Specific target organ/systemic toxicity	No data				
(single exposure)	THE GARD				975). Report to Research Institute for Fragrance
(andie exposede)				Materials (RIFM).	

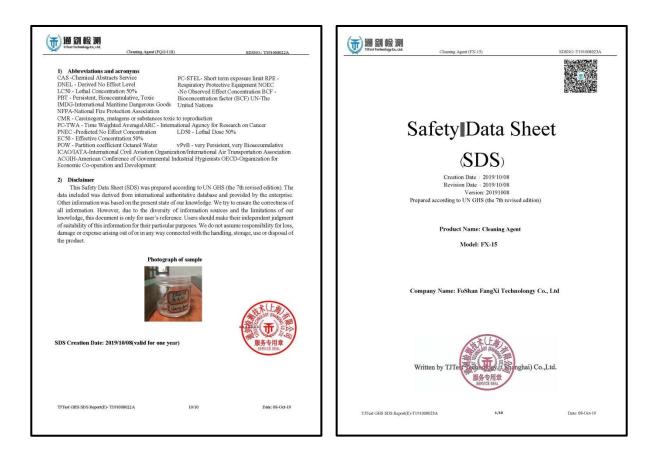


1 × Identification of the chemical and supplier	This product is norm	ally used without	hazard.	
1.1 Product identifier Product Name: Cleaning	2.5.2 Health hazards			
Agent Product Model: FQG-118 Product Code: T191008022A	This product is norm	nally used without	hazard.	
	2.5.3 Environmental ha	azards		
	Please refer to 12th	chapter of SDS.		
1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses: Cleaning the glass surface	3, Composition/infor	mation on ingr	edients	
Uses advised against:Please consult manufacturer.	Substance D Prepation Composition:			
1.3 Details of the supplier of the Safety Data Sheet Name of the company:FoShan FangXi Technolongy Co., Ltd	Component	CAS No.	EC No.	Concentration (weight percent, %)
Address of the company: Room602 19th Floor NanYi District, Guicheng HaiSan Road, NanHai FoSh	Sodium hydroxide	1310-73-2	215-185-5	10
Guangdong Telephone number: +86 757-86260662 Fax number: Zip code :	Water	7732-18-5	231-791-2	50
mail address:SSH781026@163. COM Emergency phone number: +86		1		
757-86260662	Additives			40
2.1 Hazard classification according to GHS: The product is not dangerous.	4.1 Description of first		ottontion is romi	ired. Show this sofaty data shoot (SDS) to
2 · Hazard sidentification. 2 · Hazard sidentification. 2 · Label elements Hazard pictograms : None Signal word : None 2.3 Hazard statements: None 2.4 Pressultionary statements	General advice in the dector in attendance. Skin contact: Duri off with plenty of water for Fye contact: Rinse physiciani fell uncentfor Inhalation:Under r decomposition products, oxygen. Do not use mout breatting, give artificial r	nmediate medical ng production: tak or at least 15 minu e thoroughly with stable. normal use cond irritation occurs.) th to mouth resus respiration and cor	te off contaminate tes and consult a plenty of wates itions, no adver Move victim into citation if victim usult a physician	
2.1 Hazard classification according to GHS: The product is not dangerous. 2.2 Label elements Hazard pictograms: None Signal word : None	General advice In the decide of the decided of the Skin contact Duri off with plenty of water for the second of the decided of the Initiation-Under Initiation-Under Indecided of the decided ovygen. Do not use mout breathing, give artificial Initiake I.D onot indi	nmediate medical ng production, tak for at least 15 minu : thoroughly with table. normal use cond irritation occurs.] th to mouth resus espiration and cor toe vomiting. Nev	te off contaminate tes and consult a plenty of wates itions, no adver Move victim into citation if victim ssult a physician er give anything b	ed clothing and shoes immediately. Wash physician if fell uncomfortable. r for at least 15 minutes and consult a rese effects will occur. If contact will fresh air. If breathing is difficult, giv ingested or inhaled the substance. If no
2.1 Hazard classification according to GHS: The product is not dangerous. 2.2 Label elements Hazard pictograms: None Signal word. None 2.3 Hazard statements None 2.4 Precautionary statements A.1 Prevention None	General advice in the dector in attendance. Skin contact: Duri off with plenty of water for Fye contact: Rinse physiciani fell uncentfor Inhalation:Under r decomposition products, oxygen. Do not use mout breatting, give artificial r	nmediate medical ng production: tak or at least 15 minu table. normal use cond irritation occurs. th to mouth resus- espiration and cor- ice vomiting. New rol Center immedi	te off contaminate tes and consult a plenty of wates itions, no adver Move victim into citation if victim ssult a physician er give anything b	ed clothing and shoes immediately. Wash physician if fell uncomfortable. r for at least 15 minutes and consult a rse effects will occur. If contact with fresh air. If breathing is difficult, givi ingested or inhaled the substance. If no immediately.
2.1 Hazard classification according to GHS: The product is not dangerous. 2.2 Label elements Hazard pictograms : None Signal word : None 2.3 Hazard statements None 4.4 Precautionary statements 4.4.1 Prevention None X.4.2 Response	General advice in the doctor in attendance. Skin contact Duri off with plenty of water for Fye contact: Rinse physician if fell uncernfor Inhibition-Under r decomposition products, coxygen. Do not use mout breathing, give artificial r Inhibite Do not indu physician of Poisson Cont Protecting of frat-i Ensure that medical	nmediate medical ng production; tak or at least 15 mini : thoroughly with rtable. unormal use cond irritation occurs. I th to mouth resus espiration and con uce vomiting. Nev rol Center immedi aiders: personnel are aw	te off contaminat ttes and consult a plenty of wate: itions, no adver Move victim intk tiataion if victim usult a physician er give anything l ately. are of the substan	ed clothing and shoes immediately. Wash physician if fell uncomfortable. r for at least 15 minutes and consult a rse effects will occur. If contact with fresh air. If breathing is difficult, givi ingested or inhaled the substance. If no immediately.
2.1 Hazard classification according to GHS: The product is not dangerous. 2.2 Label elements Hazard pictograms: None Signal word. None 2.3 Hazard statements None 2.4 Precautionary statements A.1 Prevention None	General advice III the dector in attendance. Skin contact - Duri off with plenty of water I Fye contact - Rins physician if fell uncemfor Inhalation:Under decomposition products, oxygen. Do not use mou breathing, give artificial Intake. Do not indu, physician or Poison Com Protecting of first- Ensure that medical themselves and prevent sj	nmediate medical ng production, tak for at least 15 min it thoroughly with trable. normal use cond irritation accurs.) th to mouth resus espiration and cor use vomiting. New conting. New conting in the second containing i	te off contaminati tes and consult a plenty of wate itions, no adver Move victim intr citation if victim sult a physician : er give anything l ately. are of the substan- ation.	ed clothing and shoes immediately. Wash physician if fell uncomfortable. r for at least 15 minutes and corsult i se effects will occur. If contact with fresh air. If breathing is difficult, giv ingested or inhaled the substance. If no immediately. by mouth to an unconscious person. Call a nee involved. Take precautions to protect
2.1 Hazard classification according to GHS: The product is not dangerous. 2.2 Label elements Hazard pictograms: None Signal word : None 2.3 Hazard statements: None 4.4 Precautionary statements None A.4 Response None	General advice in the dector in attendance. Skin contact Duri off with plenty of water fi Fye contact: Rinse physician if fell uncentfor Inhalation-Under 1 decomposition products, oxygen. Do not use moui breathing, give artificial 1 Intake. Do not ind, physician of Poisson Com Protecting of first Ensure that medical themselves and prevent sj 4.2 Most important zy 1) Substance accum	nmediate medical ng production, tak or at least 15 min thoroughly with table. normal use cond irritation coccurs.] th to mouth resus sepiration and coro ce vomiting. Nev rol Center immedi idlers: personnel are aw pread of contamin mptoms and effect	te off contaminat tes and consult a plenty of wate: itions, no adver Move victim into citation if victim sult a physician: er give anything l ately. are of the substan- ation. ts, both acute an and body, may o	ed clothing and shoes immediately. Wash physician if fell uncomfortable. r for at least 15 minutes and corsult i se effects will occur. If contact with fresh air. If breathing is difficult, giv ingested or inhaled the substance. If no immediately. by mouth to an unconscious person. Call a nee involved. Take precautions to protect
2.1 Hazard classification according to GHS: The product is not dangerous. 2.2 Label elements Hazard pictograms: None Signal word : None Signal word : None A Precautionary statements A.1 Prevention None A.2 Response None A.3 Storage	General advice in the doctor in attendance. Skin contact Duri off with planty of water for Fye contact Rinse physician if fell uncertifor Inhibition-Under 1 decomposition products, oxygen. Do not use mout breathing, give artificial 7 Inhibe. Do not indi physician or Poison Cent Protecting of Ifrat- Ensure that medical themselves and prevents 9 4. Most important syn	nmediate medical ng production, tak or at least 15 min thoroughly with trable. thoroughly with trable. thoroughly with trable could be could intration and con- ce vomiting. New of Center immedi- iders: personnel are aw personnel are aw personnel are aw personnel are aw personnel are the intration of the could inter the could be contamin mptoms and effect municipate medicate ically.	te off contaminat tes and consult a plenty of wate: itions, no adver Move victim inti itiation if victim isult a physician er give anything la itately. are of the substata ition. ts, both acute a man body, may oo onal exposure.	ed clothing and shoes immediately. Wash physician if fell uncomfortable. If for at least 15 minutes and consult it se effects will occur if contact with forsch air. If breathing is difficult, giv- ingested or inhaled the substance. If no immediately. by mouth to an unconscious person. Call it nee involved. Take precautions to protec nd delayed ceur and may cause some concern
2.1 Hazard classification according to GHS: The product is not dangerous. 2.2 Label elements Hazard pictograms: None Signal word : None 2.3 Hazard statements: None 2.4 Precautionary statements A.1 Frevention None 2.4.2 Response Not applicable Z.4.3 Storage Not applicable PS01 Dispose of contents/container in accordance with local/regional/national/international	General advice in the doctor in attendance. Skin contact : Duri off with plenty of water fn Eye contact: Rime physician if fell uncentifo Inhiatation:Under r decomposition products, oxygen. Do not use mout breathing, give artificial 7 Intake : Do not indu physician or Poison Com Protecting of first. Ensure that medical themselves and prevent sy 4.2 Most important sys 1) Substance accum following repeated of 4.3 Indication of any in 1) Treat symptom	nmediate medical ng production; tak for at least 15 min theroughly with trable. 	te off contaminat tes and consult a plenty of wate: itions, no adver Move victim inti itiation if victim isult a physician er give anything la itately. are of the substata ition. ts, both acute a man body, may oo onal exposure.	ed clothing and shoes immediately. Wash physician if fell uncomfortable. If for at least 15 minutes and consult it se effects will occur if contact with forsch air. If breathing is difficult, giv- ingested or inhaled the substance. If no immediately. by mouth to an unconscious person. Call it nee involved. Take precautions to protec nd delayed ceur and may cause some concern

	8)	SDS NO.: T191008022A	TiTest Technology Ex	o,ttd. Cleaninį	g Agent (FQG-118)		SD	S NO.: T191008022/
5.1 Extinguishing media			1) Avoid	inhalation of vapors				
 Suitable extinguishing media : Dry che 	emical, carbon dioxide or alcohol	-resistant foam.	2) Useon	ilynon-sparking tools	i			
Unsuitable extinguishing media : Do r	not use a solid water stream as it r	nay scatter or spread		vent fire caused by eld	ectrostatic dischar	ge steam, equipn	nent on all metal	parts should be
fire.			grounded.					
5.2 Specific hazards arising from the substan				plosion proof equipr				
 Will form explosive mixtures with air. 				ling is performed in a		lace.		
Fire exposed containers may vent containers	ents through pressure relief valve	s thereby increasing		uitable protective equ				
fire intensity and/ or vapour concentration.				contact with skin and				
Vapours may travel to source of ignition	on and flash back.			away from heat/spark				
 Liquidand vapourare flammable. 			5) Take 1 7.2Precautions	precautionary measur	es against static c	lischarges.		
 May emit poisonous fumes on fire. Containers may explode when heated. 				in a cool, ventilated v				
 Fire exposed containers may vent content 	ante through processes raliaf values			temperature should n		away from fire a	nd hast courose	
 Fire exposed containers may vent conte 8) May expansion or decompose explosive 				he container sealed.	ior encoded 37 °C,	away nomine a	nu near sources.	
5.3 Advice for firefighters	Ty when heated of involved in in-			d be stored separately	r from oxidents r	educina saents 1	alogens etc. A	void mixing
 As in any fire, wear self-contained brea 	athing annoratus (MSHA/NIOSH	approved or		xplosion-proof lightin			anogens, etc. 11	returning.
equivalent) and ull protective gear.	nang appantas (mentreneser	approved of		orbidden to use mech			silv produce spe	urks.
 Fight fire from a safe distance, with ad 	lemate cover			orage area should be				
 Prevent fire extinguishing water from c 		e ground water	suitable containn		1.11			
system.			0 2					
6 • Accidental release measures				controls/personal p	orotection			
			8.1 Control Pa					
6.1 Personal precautions, protective equipme		12	8.1.1 Occupation	onal exposure limits				
 Avoid breathing vapors and contacting 								
Beware of vapours accumulating to for			Occupational I	Exposure limit value	25			
 Vapours can accumulate in low areas. 					1			
 Emergency personnel wear positive protective and anti-static clothing. Wear chemical 		pparatus. Wear	Component	Country/Region		- Eight hours		e - Short term
 Ensure adequate ventilation. Remove a 			-		PP ^m	mg/m3	ppm	mg/m3
 Ensure adequate ventiliation. Remove a Evacuate personnel to safe areas. Keep 		of amill Apole		USA-OSHA	Unspecified	Unspecified	Unspecified	
 Use personal protective equipment. Av 				South Korea	Unspecified	Unspecified	Unspecified	
6.2 Environmental precautions	rold ofcauling vapours, huse, gas	or dust.		Ireland	Unspecified	Unspecified		Unspecified
 Prevent further leakage or spillage if sa 	afe to do so			Germany (AGS)	Unspecified	Unspecified	Unspecified	
 Discharge into the environment must b 			All	Denmark	Unspecified	Unspecified		Unspecified
6.3Methods and materials for containment ar			components	Australia	Unspecified	Unspecified	Unspecified	
1) Absorb spilled material in dry sand or in	nert absorbent. In case of large an	nount of spillage,		South Korea	Unspecified	Unspecified	Unspecified	
contain a spill by bunding.				Ireland	Unspecified	Unspecified	Unspecified	
contain a spin by bunding.	be promptly disposed of, in accord	dance with		Germany (AGS)	Unspecified	Unspecified	Unspecified	
1) Adhered or collected material should b				Denmark	Unspecified	Unspecified		Unspecified
 Adhered or collected material should b appropriate laws and regulations. 				Australia	Unspecified	Unspecified	Unspecified	Unspecified
1) Adhered or collected material should b	ark-proof tools and explosion-pro	oof equipment.		11001010				
 Adhered or collected material should b appropriate laws and regulations. 	ark-proof tools and explosion-pro	oof equipment.	8 1 2 Pielogical					
 Adhered or collected material should b appropriate laws and regulations. Remove all sources ofignition. Use spa 7 • Handling and storage : 	ark-proof tools and explosion-pro	of equipment.	8.1.2Biological li	limit values	mation available			
Adhered or collected material should b appropriate laws and regulations. Bernove all sources ofignition. Use spo	ark-proof tools and explosion-pro	rof equipment.		limit values mit values : No infor	mation available			
1) Adhered or collected material should b appropriate laws and regulations. 3) Remove all sources ofignition. Use spa 7 • Handling and storage :	ark-proof tools and explosion-pro 47.0	oof equipment. Date: 08-Oct-19	Biological lin 8.1.3 Monitori	limit values mit values : No infor	mation available	5/10		Date: 08-Oct-19

ritest Technology En, Itel. Cleaning Agent (FQG-118)	SDS NO.: T191008022A	~			C.	eaning Ag	tent (rQO	-118)			3D3 NO.	.: T1910080
 EN 14042 Workplace atmospheres. Guide for the application assessment of exposure to chemical and biological agents. GBZT 160.1–GBZT 160.81-2004 Determination of toxic subst standard). 		Octanol availabl availabl availabl	e. Auto-i e. Decon e. Viscos	ignition (aposition sity: No o	temper: 1 tempe data avi	ature (° rature (C): No (°C): N					
2 Engineering controls		Others:										
1. Ensure adequate ventilation, especially in confined areas.		10. Sta	bility a	nd Reac	tivity:							
 Ensure that eyewash stations and safety showers are close to the: Use explosion proof electrical ventiliang idjuiting equipment. Statistical protection guipment General requirement: 		Chemica Possibili Conditio	d stabili ty ofhaz ns to av tible ma us decor cicologi	ty: Stable ardous r oid: Inco aterials: mpositio cal info	e under reaction ompatib Strong n prod	the corr is: No d le mater oxides, : ucts: No	rect con lata ava rials, sta strong a	ditions of us illable. tic electricit cids, strong	composition d e and storage y, heat, humid bases.			l reaction
ye protection : Tightly fitting safety goggles (approved by EN 166(E	U) or NIOSH (US).		ompon	ont	T	D50(or	ab	LD50(Trs	nscutaneous	10	n(inhala	tion 4h)
Iand protection : Wear protective gloves (such as butyl rubber), pa	ssing the tests according toEN		compor			data ava			available		data ava	
74(EU),US F739 orAS/NZS 2161.1 standard. Respiratory protection : If exposure limits are exceeded or if irritation	n or other symptoms are	11.2 Ca	cinogen	licity:								
xperienced, use a full- face respirator with multi-purpose combinatio 4387) respirator cartridges.	on (US) or type AXBEK (EN		Comp	onent			L	ARC		1	NTP	
kin and body protection . Wear fire/flame resistant/retardant clothin	g and antistatic boots.		All com	ponents			Not	Listed		No	t Listed	
other protection: Smoking, eating and drinking are forbidden on the jo abits.	b site. Maintain good hygiene	11.3 Ott	ers									
> Physical and chemical properties :			Согго	Serio	Skin	Resp	Repr	Specific	Specific	Aspi	Germ	Repro
ppearance: Light yellow.			sive	us eye	sensi	irator	oduc	target	target	ratio	cell	ducti
Odor: Weak odor.		Compo	skin/	dama	tizati	У	tive	organ	organ	n	mutag	ve
Odor threshold: Not available. 'H value: Not available.		nent	irritat	ge/imi	on	sensi	toxic	toxicity -	toxicity -	haza	enicit	toxici
felting point/freezing point (°C): Not available.			ion	tation		tizati	ity	single	repeated	rd	y	ty
nitial boiling point and boiling range (°C): Not available.						on		exposure	exposure			
lash point (closed cup, °C): Not available.		3	No	No	No	No	No	No data	No data	No	No	No
vaporation rate: No data available.		All	data	data	data	data	data	available.	available.	data	data	data
'lammability (solid or gas): No data available.		compo	avail	availa	avail	avail	avail			avail	availa	availa
xplosion upper/lower limit [%(v/v)]: No data available.		nents	able.	ble.	able.	able.	able.			able.	ble.	ble.
/apor pressure (kPa) :No data available.		12. Eco	logical	inform	ation							
apor density (air = 1): No data available.		12. Etc	nogreat	morma	auoli:							
Relative density (water = 1): No data available.		12.1 A	cute aqu	uatic to:	xicity							
olubility (mg/L): No data available.		1										
olubility (mg/L): No data available.	Date: 08-Oct-19	TJTest GH:	SDS Reev	rt(E)- T1 01	0080224			7/10			Date	: 08-Oct-19

TiTest Technology Co., Ltd.	Clearing	Agent (FQG-118)		SDS NO.: T191008022A	Theit fecheo	alogy Eo., Ltd.	Cleanin	g Agent (FQG	-118)			SDS NO.: T	91008022A
Component All components			ata available.	Algae No data available.	and high te equipment shipping, c	bidden to us emperature d and emerge sheck wheth ns and anno	luring trans ncy respon er the pack	portation. T se treatmen aging conta	ransportati t equipment iner is com	on vehicles t of correspo plete and se	shall be equ onding type aled. On th	ipped with s and quanti e transporta	fire fighting ties. Before tion means,
Component All components	Fish		rustaceans ata available.	Algae No data available.	requiremer 15 • Regu		ormation:		e poster in	accordance	e with the	leievan ut	nisportation
12.3 Others					Compone	EINECS	TSCA	DSL	IECSC	NZIOC	PICCS	KECI	AICS
Component	Persistence and degradability	Bioaccumulation or bioaccumulation		Evaluation of PBT andvPvB results	nt Sodium hydroxide	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
	No data	No data	No data	No data	Water	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
	ions you need medical a hazards may still ex s of ignition. If pos	ist after the conten sible, recycle them	s of the packaging	available.	Additives tEINEC (TSCA: tDSL)	N.A CS1 Europea 1 United St Canadian D C1 ChinaInv	atesToxicS omestic Su	ubstances (bstances Li	ControlAct	Inventory	N. A Substances	N.A	N. A
13. Disposal con Disposal considerat Waste chemicals: If vackaging: Residual rom heat and source Disposal considerat 14. Transportati	siderations ions you need medical a hazards may still ex s of ignition. If pos ions: Referto the "I ion information:	dvice: Please carry ist after the conten sible, recycle them Disposal" section.	product containers s of the packaging to the supplier for	or labels. Contaminated are emptied. Keep away recycling.	Additives (EINEC (TSCA) (DSL) (IECSC)	CS1 Europea 1 United St Canadian D	in Inventor atesToxicS omestic Su entory of E	y ofExistin Substances (bstances Li xistingChe	gCommerci ControlAct st mical Subst	alChemical Inventory		276/35	11000000000
13, Disposal con Disposal considerat Waste chemicals: If from heat and source Disposal considerat 14, Transportati United Nations Dan UN proper shipping UN Risk Classificat	siderations ions you need medical a hazards may still ex s of ignition. If pos ions: Referto the "I ion information: segrous Goods Nur name: None ion: None	dvice: Please carry ist after the conten sible, recycle them Disposal" section.	product containers s of the packaging to the supplier for	or labels. Contaminated are emptied. Keep away recycling.	Additives (EINEC (TSCA) (DSL) (IECSC (NZIoC	CS1 Europea 1 United St Canadian D C1 ChinaInv C1 NewZeala 51 Philippina	in Inventor atesToxicS omestic Su entory of E and Invento	y ofExistin aubstances (bstances Li xistingChe ory ofChem	gCommerci ControlAct st mical Subst icals	alChemical Inventory ances	Substances	276/35	11000000000
13. Disposal considerat Vaste chemicals: If vaste aging: Residual from heat and source Disposal considerat United Nations Dan UN Risk Classificat Packing the Classificat Packing the Data Source Packing the Data Source Packing the Data Source Packing the Data Source Vangoule bottle outsi Packing the Data Source Source Source Packing the Data Source Source Source Packing the Data Source	siderations ions you need medical a hazards may still es s of signition. If poss ions: Referto the "1 ion information: gerous Goods Nur name: None none none sone ka cacording to the de the ordinary work is (cans) outside the es It is strictly proh The exhaust pipe which prolabilis th in, and high tem which prolabilis th ave a grounding ch	dvice: Please carry ist after the conten sible, recycle them bisposal" section. aber (UN No.): TI e manufacturer's re den box. Threaded cordinary wooden bibted to mix and to of the vehicle car u use of mechanica perature during the	product containers s of the packaging to the supplier for the product is not of glass bottles, iron i boxes. ansport with acids ansportation. The	or labels. Contaminated are emptied. Keep away recycling.	Additives tEINEC tTSCA: tDSLj tIECSC tNZIoC tPICCS 16、Oth 16.1 Ref 11] http://www [2] JARC [3] http://www [4] CAM [5] NLM [5] NLM [5] PLC. [7] U.S.E	CS1 Europea 1 United St Canadian D C1 ChinaInv C1 NewZeala S1 Philippine ters erence : IPC vilo.org/dyn , website: h	an Inventor atesToxicS omestic Su entory of E and Inventor es Inventor S:The Intu //issc/show typ://www. The Globs al.org/ache al.sy.website: isk Inform fTransport	y ofExistin iubstances (bstances Li xistingChe rry ofChemic ernational eard.home. iare.fr/. dl Portal mportal/ind: http://chem ation.Exgs.	gCommerci ControlAct st mical Subst icals alsand Che Chemica to Inform ex?pageID ecochemical sis nlm.nih m, website:	alChemical Inventory ances mical Subst 1 Safety ation on =0&request s.noaa.gov/ .gov/chemi http://cww.g	Substances ances Cards Chemical Jocale=en. search/simp dplus/chem. epa.gov/iri hmsa.dot.go	(ICSC) Substances le. idlite.jsp. s/. w/hazmat/li	N.A ,website:
13. Disposal considerat Naste chemicals: if webaging: Residual wate themicals: if webaging: Residual tom heat and source objects and source bipsoal considerat land to a statistical results and the source ackaing at the source ackaing at the source ackaing at the source ackaing method P. Anyoule bottle outsi ottles or metal drum fransportation NG world seposure, ra Wool exposure, ra	siderations ions you need medical a hazards may still erg s of ignition. If pos- ions: Referto the "I ion information: gerous Goods Nu gerous Goods Nu rame: None None ne Marine : No et lits striedy proh The exhaust pipe which prohabits the et lits striedy proh The exhaust pipe which prohabits the ave a grounding ch	dvice: Please carry ist after the conten- Sisble, recycle them Sisposal" section. uber (UN No.): TI en box. Threaded ordinary wooden of the vehicle car use of mechanica use of mechanica use of mechanica ration.	product containers s of the packaging to the supplier for the product is not of glass bottles, iron i poxes, sying this item m equipment and to ansport with acids ying this item m	or labels. Contaminated are emptied. Keep away recycling. dangeroux. we example: open drums. lids, glass bottles, plastic , alkalis, oxidants, foods ust be equipped with a cols that generate sparks. tank (tank) used for ged in the tank to reduce	Additives tEINEC tTSCA: tDSLj tIECSC tNZIoC tPICCS 16、Oth 16.1 Ref 11] http://www [2] JARC [3] http://www [4] CAM [5] NLM [5] NLM [5] PLC. [7] U.S.E	CS1 Europea 1 United SI Canadian D 2 Chinalny 2 NewZeala 3 Philippina ters terence : IFC Villo.org/dyn , website: h OECD-7: c.chemport EO Chemice ChemDplu Integrated R Department of any GESTIS	an Inventor atesToxicS omestic Su entory of E and Inventor es Inventor S:The Intu //issc/show typ://www. The Globs al.org/ache al.sy.website: isk Inform fTransport	y ofExistin iubstances (bstances Li xistingChe rry ofChemic ernational eard.home. iare.fr/. dl Portal mportal/ind: http://chem ation.Exgs.	gCommerci ControlAct st mical Subst icals alsand Che Chemica to Inform ex?pageID ecochemical sis nlm.nih m, website:	alChemical Inventory ances mical Subst 1 Safety ation on =0&request s.noaa.gov/ .gov/chemi http://cww.g	Substances ances Cards Chemical Jocale=en. search/simp dplus/chem. epa.gov/iri hmsa.dot.go	(ICSC) Substances le. idlite.jsp. s/. w/hazmat/li	N.A ,website:

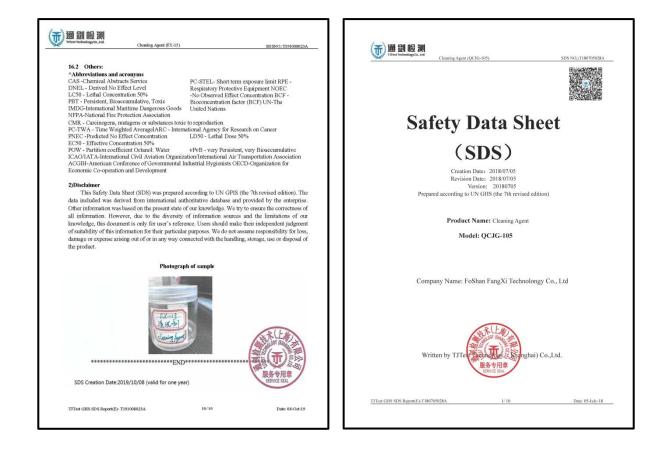


Cleaning Agent (EX-15) SDSNO.:T191008023A	TiTest Technology Co., itd.	Cleaning Agent (F	X-15)	SDS NO.: T191008023A
1 · Identification of the chemical and supplier	This product is norm	ally used without l	hazard.	
1.1 Product identifier Product Name:				
Cleaning Agent Product Model: FX-15	2.5.2 Health hazards	The second second	1 12	
Product Code: T191008023A	This product is norm	ally used without l	hazard.	
1.2 Relevant identified uses of the substance or mixture and uses advised against	2.5.3 Environmental he Please refer to 12th	chapter of SDS.		
Relevant identified uses: Cleaning the glass surface Uses advised against: Please consult manufacturer.	3、Composition/infor Substance □ Prenation■	mation on ingree	dients	
1.3 Details of the supplier of the Safety Data Sheet	Composition:		1	
Name of the company:FoShan FangXi Technolongy Co., Ltd	Component	CAS No.	EC No.	Concentration (weight percent, %)
Address of the company: Room602 19th Floor NanYi District, Guicheng HaiSan Road, NanHai FoSh Guangdong Telephone number: +86 757-86260662 Fax immber: ~	Non-ionic surfactants	308061-37-2	2-2	20
Zip code :	Sodium gluconate	527-07-1	208-407-7	5
mail address: SSH781026@163. COM Emergency phone number: +86 757-86260662	Others	1991 C 0620 052		10
2> Hazard si dentification: 21 Hazard casification according to GHS: The product is not dangerous. 22 Label elements			ittention is requi	ired. Show this safety data sheet (SDS)
2.1 Hazard classification according to GHS: The product is not dangerous. 2.2 Label elements - None Signal word : None Signal word : None 2.3 Hazard statements: None	4.1 Description of first: General advice: In the dector in attendance. Skin contact: Duri off with plenty of water for first plenty of water for Eye contact : Run physician if fell uncomfor Inhalation:/Under r decomposition products, exygen. Do not use mout	umediate medical a ng production, take r at least 15 minute se thoroughly with table. iormal use conditi irritation occurs.M h to mouth resusci	e off contaminates and consult a j a plenty of wate ions, no adver love victim into itation if victim	ed clothing and shoes immediately. Wa physician if fell uncomfortable. er for at least 15 minutes and consult se effects will occur. If contact wi 5 fresh air. If breathing is difficult, gi ingested or inhaled the substance. If n
2.1 Hazard classification according to GHS: The product is not dangerous. 2.2 Label elements Hazard pictograms: None Signal word: None 2.3 Hazard statements: None 2.4 Precautionary statements	4.1 Description of first: General advice: In the dector in altendance. Skin contact: Duri off with plenty of water for Fey contact: Rim physiciani if fell uncentfor Inhalation:Under T decomposition products, oxygen. Do not use mout breathing, give artificial r	umediate medical a ng production, taka r at least 15 minute se thoroughly with table. ormal use condit imitation occurs. M h to mouth resusci espiration and const	e off contaminates and consult a j a plenty of wate ions, no adver love victim into itation if victim ult a physician in	ed clothing and shoes immediately. Was physician if fell uncomfortable. er for at least 15 minutes and consult se effects will occur. If contact wi fresh air. If breathing is difficult, giv ingested or inhaled the substance. If n unwediately.
2.1 Hazard classification according to GHS: The product is not dangerous. 2.2 Label elements Hazard pictograms: None Signi word: None 2.3 Hazard statements None 2.4 Precautionary statements 4.1 Prevention	4.1 Description of first: General advice: In the doctor in attendance. Skin contact: Duri off with plenty of water for Fye contact : Rin physician if fall uncenfort Inhalation:Under r decomposition products, coxygen. Do not use mout breating, give artificial r Intake. Do not indi	umediate medical a ng production, take r at least 15 minute se thoroughly with table. formal use condit irritation occurs. M h to mouth resusci spiration and consi ce vomiting. Neve	e off contaminate es and consult a p a plenty of wate ions, no adver love victim into itation if victim ult a physician ir r give anything b	ed clothing and shoes immediately. Wa physician if fell uncomfortable. er for at least 15 minutes and consult se effects will occur. If contact wi 5 fresh air. If breathing is difficult, gi ingested or inhaled the substance. If n
2.1 Hazard classification according to GHS: The product is not dangerous. 2.2 Label elements Hazard pictograms : None Signal word : None 2.3 Hazard statements: None 2.4 Precautionary statements None	4.1 Description of first: General advice: In the doctor in attendance. Skin contact: Duri off with plenty of water fc Eye contact : Rin physicain if fell uncontfer Inhalation:Under r decomposition products, oxygen. Do no tuse mout breathing, give artificial r Intake: Do not indu physicain or Poison Contr	umediate medical a ng production, take r at least 15 minute se thoroughly with table. ormal use condit irritation occurs.M h to mouth resusci spiration and cons spiration and cons ce vomiting. Neve ol Center immediat	e off contaminate es and consult a p a plenty of wate ions, no adver love victim into itation if victim ult a physician ir r give anything b	ed clothing and shoes immediately. Was physician if fell uncomfortable. er for at least 15 minutes and consult se effects will occur. If contact wi fresh air. If breathing is difficult, giv ingested or inhaled the substance. If n unwediately.
2.1 Hazard classification according to GHS: The product is not dangerous. 2.2 Label elements Hazard pictograms : None Signal word : None 2.3 Hazard statements: None 2.4 Precautionary statements 2.4.1 Prevention None 2.4.2 Response	4.1 Description of first General advice: In the dector in attendance. Skin contact: Duri off with plenty of water for Fey contact: Rin physiciani ff fall uncontfor Inhalation:Under p decomposition products, coygen. Do not use mout breathing, give artificial r Intake: Do not indu physician or Poison Contf Protecting of first-3	mediate medical a ng production, taka r at least 15 minute se thoroughly with table. ormal use condit imitation occurs. M h to mouth resusci spiration and cons spiration and cons spiration and cons do Center immediat iders :	e off contaminate es and consult a ja a plenty of wate ions, no adver love victim into itation if victim ult a physician ir r give anything b	ed clothing and shoes immediately. Was physician if fell uncomfortable. er for at least 15 minutes and consult se effects will occur. If contact wi ingested or inhaled the substance. If n mmediately. by meuht o an unconscious person. Call
2.1 Hazard classification according to GHS: The product is not dangerous. 2.2 Label elements Hazard pictograms : None Signal word : None 2.3 Hazard statements: None 2.4 Precautionary statements 2.5.1 Prevention None	4.1 Description of first General advice: In the dector in attendance. Skin contact: Duri off with plenty of water for Fey contact: Rin physiciani ff fall uncontfor Inhalation:Under p decomposition products, coygen. Do not use mout breathing, give artificial r Intake: Do not indu physician or Poison Contf Protecting of first-3	nmediate medical a ng production, take r at least 15 minute se thoroughly with table. ormal use condit imitation occurs. M h to mouth resusci spiration and cons ce vomiting. Neve ol Center immediat iders	e off contaminate es and consult a j a plenty of wate ions, no adver love victim into tiation if victim ult a physician in r give anything b lely. re of the substan	ed clothing and shoes immediately. Was physician if fell uncomfortable. er for at least 15 minutes and consult se effects will occur. If contact wi fresh air. If breathing is difficult, giv ingested or inhaled the substance. If n unwediately.
2.1 Hazard classification according to GHS:The product is not dangerous. 2.2 Label elements Hazard pictograms : None Signal word : None 3.3 Hazard statements: None 4.4 Precautionary statements A.1 Prevention None None None	4.1 Description of first: General advice: In the dector in attendance. Skin contact: Duri off with plenty of water fo Eye contact - Rin physiciani ff fill uncomfor Inhalation:Under r decomposition products, coxygen. Do not use mout breathing, give artificial r Inhale: Do not indu physician or Poison Cont Protecting of Ins-1- Ensure that medical	nmediate medical a ng production, take r at least 15 minute se thoroughly with able. ormal use condit imitation occurs. M h to mouth resusci spiration and corss eavoniting. Neve e voniting. Neve d Center immediat iders personnel are awa	e off contaminate es and consult a ja a plenty of wate ions, no adver iove victim into itation if victim all a physician if r give anything b lely. re of the substation.	ed clothing and shoes immediately. Was physician if fell uncomfortable. er for at least 15 minutes and consult se effects will occur if contact wi fresh air. If breathing is difficult, gi ingested or inhaled the substance. If n mmediately. by mouth to an unconscicus person. Call nee involved. Take precautions to prote
2.1 Hazard classification according to GHS: The product is not dangerous. 2.2 Label elements Hazard pictograms : None Signal word : None 2.3 Hazard statements None 2.4 Precautionary statements 2.4. Prevention None 2.4.2 Response None 2.4.3 Storage Not applicable	4.1 Description of first: General advice: In the dector in attendance. Skin contact: Duri off with plenty of water fc Eye contact : Rin physiciani if fell uncomfer Inbalation: Under r decomposition products, exygen. Do not use mout breathing, give artificial r Intake. Do not inde physician or Poiscon Cont Protecting of Int-a- Ensure that medical themselves and prevent sp 4.2 Most important sp 1) Substance accur	nmediate medical a ng production, take r at least 15 minute bable. cormal use conditi mitation occurs: M h to mouth resuse: oppiration and corms oppiration and corms of contarinat diers personnel are awa read of contarninat mptoms and effect?	e off contaminate es and consult a ja a plenty of wate ions, no adver love victim into tation if victim ut a physician if r give anything b lely. re of the substation. s, both acute an ana body, may c	ed clothing and shoes immediately. Was physician if fell uncomfortable. er for at least 15 minutes and consult se effects will occur if contact wi fresh air. If breathing is difficult, gi ingested or inhaled the substance. If n mmediately. by mouth to an unconscicus person. Call nee involved. Take precautions to prote
2.1 Hazard classification according to GHS:The product is not dangerous. 2.2 Label elements Hazard pictograms : None Signal word : None 2.3 Hazard statements A.4 Precautionary statements A.4.1 Prevention None None Z.4.3 Storage None Not applicable Z.4.4 Disposal	4.1 Description of first General advice: In the doctor in attendance. Skin contact: Duri: off with plenty of water fc Fye contact : Run physician if fell uncomfor Inhalation:/Inder r decomposition preducts, coxygen. Do not use mout breatting, give artificial r Intake. Do not indh physician or Poisen Contr Protecting of first-a Ensure that medical themselves and prevents şr 4.2 Most important syn 1) Substance accur fellowing repeated or li	mediate medical a ng production, take r at least 15 minutes se thoroughly with table. tormal use conditivity table. tormal use conditivity table. tormal use conditivity mittation occurs. M h to mouth resusci- spination and constructions of center immediation distance of center immediation distance of center immediation distance of center immediation. term cocupation	e off contaminati es and consult a j a plenty of wate ions, no adver love victim into itation if victim ult a physician ir give anything b lely. re of the substat ion. s, both acute an nal exposure.	ed clothing and shoes immediately. Was physician if fell uncomfortable. er for at least 15 minutes and consult se effects will occur. If contact will ingested or inhaled the substance. If n runnediately. by mouth to an unconscious person. Call nee involved. Take precautions to prote ad delayed accur and may cause some concern
2.1 Hazard classification according to GHS: The product is not dangerous. 2.2 Label elements Hazard pictograms : None Signal word : None 2.3 Hazard statements None 2.4 Precautionary statements 2.4. Prevention None 2.4.2 Response None 2.4.3 Storage Not applicable	4.1 Description of first : General advice: In the doctor in attendance. Skin contact: Duri off with plenty of water for Fye contact : Rim physician if fall uncenfort Inhalation:Under r decomposition products, coxygen. Do not use mout breating, give artificial r Intake. Do not indi physician or Poison Contr Protecting of first-a Ensure that medical themselves and prevent sy 4.2 Most important syn 1) Stabilistance accuu following repeated of I 4.3 Indication of any in 1) Trate symptoma	mediate medical a ng production, take r at least 15 minute ker start 15 minute able. Comma use condit mitation occurs. M h to mouth resusci- spiration and conse ce vomiting. Neve of Center immediat iders of Center immediat iders personnel are awa of contaminat ptoms and effect . madaton, in the hum ong-term occupatio mediate medical 3 ically.	e off contaminati es and consult a j a plenty of wate ions, no adver love victim into itation if victim ult a physician ir give anything b lely. re of the substat ion. s, both acute an nal exposure.	ed clothing and shoes immediately. Was physician if fell uncomfortable. er for at least 15 minutes and consult se effects will occur. If contact will ingested or inhaled the substance. If n runnediately. by mouth to an unconscious person. Call nee involved. Take precautions to prote ad delayed accur and may cause some concern
2.1 Hazard classification according to GHS: The product is not dangerous. 2.2 Label elements Hazard pictograms : None Signal word : None A.3 Hazard statements A.4 Precautionary statements None Z.4.3 Storage Not applicable Z.4 Disposal PS01 Dispose of contents/container in accordance with local/regional/instimal/international	 4.1 Description of first: General advice: In the doctor in attendance. Skin contact: Duri: off with plenty of water for if set uncomfor Induation:Under r decomposition products, coxygen. Do not use mout breating, give artificial r Intake. Do not indu physician or Poisen Contr Protecting of first-3 Ensure that medical themselves and prevents ga 4.2 Most important yg 1) Substance accur fallowing repeated or I 4.3 Indication of any in 1) Trata symptoms 2) Symptoms may 	amediate medical a ng production, take r at least 15 minute se thoroughly with table. se thoroughly with table. to control use condi- imitation occurs. Mo- spiration occurs. Mo- to evoniting. Neve ol Center immediat iders: personnel are awa read of contaminat poinos and effect - nulation, in the hum get-erm occupatio mediate medical is ically. be delayed.	e off contaminati es and consult a j a plenty of wate ions, no adver love victim into itation if victim ult a physician ir give anything b lely. re of the substat ion. s, both acute an nal exposure.	ed clothing and shoes immediately. Was physician if fell uncomfortable. er for at least 15 minutes and consult se effects will occur. If contact will ingested or inhaled the substance. If n runnediately. by mouth to an unconscious person. Call nee involved. Take precautions to prote ad delayed accur and may cause some concern
2.1 Hazard classification according to GHS: The product is not dangerous. 2.2 Label elements Hazard pictograms : None Signal word : None .3 Hazard statements: None .4 Precautionary statements .4.2 Response None None .4.3 Storage Not applicable .5.1 Dispose of contents/container in accordance with local/regional/national/international regulations.	4.1 Description of first : General advice: In the doctor in attendance. Skin contact: Duri off with plenty of water for Fye contact : Rim physician if fall uncenfort Inhalation:Under r decomposition products, coxygen. Do not use mout breating, give artificial r Intake. Do not indi physician or Poison Contr Protecting of first-a Ensure that medical themselves and prevent sy 4.2 Most important syn 1) Stabilistance accuu following repeated of I 4.3 Indication of any in 1) Trate symptoma	amediate medical a ng production, take r at least 15 minute se thoroughly with table. se thoroughly with table. to control use condi- imitation occurs. Mo- spiration occurs. Mo- to evoniting. Neve ol Center immediat iders: personnel are awa read of contaminat poinos and effect - nulation, in the hum get-erm occupatio mediate medical is ically. be delayed.	e off contaminati es and consult a j a plenty of wate ions, no adver love victim into itation if victim ult a physician ir give anything b lely. re of the substat ion. s, both acute an nal exposure.	ed clothing and shoes immediately. Was physician if fell uncomfortable. er for at least 15 minutes and consult se effects will occur. If contact will ingested or inhaled the substance. If n runnediately. by mouth to an unconscious person. Call nee involved. Take precautions to prote ad delayed accur and may cause some concern

)	SDSNO.: T191008023A	TilTest Technology Co., Lt	d. Cleaning A	igent (FX-15)		SDSN	O.: T191008023A
			1) Use or	lv non-sparking tool	s.			
5.1 Extinguishing media			3) To prev	ent fire caused by ele	ectrostatic dischar	ge steam, equipn	nent on all metal	parts should b
 Suitable extinguishing media : Dry ch 	nemical, carbon dioxide or a	alcohol-resistant foam.	grounded.					
Unsuitable extinguishing media : Do	not use a solid water stream	n as it may scatter or spread	 4) Use ex 	plosion proof equipr	nent.			
fire.			5) Handlir	g is performed in a w	vell ventilated pla	ce.		
5.2 Specific hazards arising from the substa			6) Wear su	itable protective equi	pment.			
 Will form explosive mixtures with air 				ontact with skin and				
Fire exposed containers may vent cont	tents through pressure relie	f valves thereby increasing		way from heat/spark				
fire intensity and/ or vapour concentration.				recautionary measure	es against static d	ischarges.		
 Vapours may travel to source of ignition 	ion and flash back.		7.2Precalitions f					
 Liquid and vapour are flammable. 				n a cool, ventilated w				
5) May emit poisonous fumes on fire.				emperature should no	ot exceed 37 °C, a	way from fire an	d heat sources.	
 Containers may explode when heated. Fire exposed containers may vent con 		fuelwar		he container sealed.	a			
 Fire exposed containers may vent con 8) May expansion or decompose explosiv 				be stored separately			alogens, etc. Av	old mixing.
5.3 Advice for firefighters	rely when heated or involve	a in me.		losion-proof lighting				
 As in any fire, wear self-contained breacher 	athing apparatus (MSHA/)	NOSH approved or		idden to use mechan age area should be e				
equivalent) and ull protective gear.	anning apparatus (morrier	inosit approved of	containment mate		quipped with leas	age emergency u	eatment equipn	ient and suitab
 Fight fire from a safe distance, with ac 	demate cover		MADA 24444					
 Prevent fire extinguishing water from c 		or the ground water system	8 · Exposure c	ontrols/personal p	rotection			
6 • Accidental release measures 6.1 Personal precautions, protective equipm 1) Avoid breathing vapors and contacting	g with skin and eye.		8.1.1 Occupation	posure limit values				
 6.1 Personal precautions, protective equipm Avoid breathing vapors and contacting Beware of vapours accumulating to fa 	g with skin and eye. orm explosive concentration				Limit valu	e - Eight hours		e - Short term
 6.1 Personal precautions, protective equipm Avoid breathing vapors and contacting Beware of vapours accumulating to ft Vapours can accumulate in low areas. 	g with skin and eye. orm explosive concentration	ns.	Occupational Ex	country/Region	Limit valu	mg/m3	ppm	mg/m3
 6.1 Personal precautions, protective equipm Avoid breathing vapors and contacting Beware of vapours accumulating to fi Vapours can accumulate in low areas Emergency personnel wear positive pr 	g with skin and eye. form explosive concentration ressure self-contained breat	ns.	Occupational Ex	Country/Region USA-OSHA	Limit valu ppm Unspecified	mg/m3 Unspecified	ppm Unspecified	mg/m3 Unspecified
6.1 Personal precautions, protective equipm 1) Avoid breathing vapors and contacting 2) Beware of vapours accumulating to fo 3) Vapours can accumulate in low areas 4) Emergency personnel wear positive p protective and anti-static clothing. Wear chemic	g with skin and eye, form explosive concentration ressure self-contained breat cal impermeable gloves.	ns.	Occupational Ex	Country/Region USA-OSHA South Korea	Limit valu ppm Unspecified Unspecified	mg/m3 Unspecified Unspecified	ppm Unspecified Unspecified	mg/m3 Unspecified Unspecified
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Cleaning Agent (FX-15)	SDSNO.:T191008023A	Til est Techar			Clear	ning Agen	# (FX-15)			5	SDSNO.:TI	91008023A
1. EN 14042 Workplace atmospheres. Guide for the application and use of	procedures for the	Octanol	/water p	artition c	coeff!cie	ent:No	data av	ailable.				
assessment of exposure to chemical and biological agents.		Auto-ig										
2. GBZ/T 160.1-GBZ/T 160.81-2004 Determination of toxic substances in wo	alation of Carine	Decomp										
	sikplace all (Selles	Viscosit	y: No dat	a availab	le.							
standard).		Others:	No data a	available.								
8.2 Engineering controls												
 Ensure adequate ventilation, especially in confined areas. Ensure that are added to be a	1 constraint	10. Stat	oility and	d Reacti	wity:							
 Ensure that eyewash stations and safety showers are close to the workstation Use explosion-proof electrical/ventilating/lighting/equipment. 	location.	Reactivi	ity: Conta	ct with in	ncompa	tible ma	aterials	can cause de	composition	or other	chemica	I reaction
 Ose explosion-proof electrical ventualing/lighting/equipment. Set up emergency exit and necessary risk-elimination area. 									e and storage.			
 Set up emergency exit and necessary risk-eminination area. 8.3 Personal protectionequipment 		Possibil										
General requirement:		Conditio	ons to av	oid: Inco	mpatibl	le mater	ials, stat	tic electricity	y, heat, humic	lity, etc.		
		Incomp	atible ma	terials: S	Strong o	oxides, s	strong a	cids, strong l	bases.			
		Hazarde	ous decor	nposition	n produ	ucts: No	o data a	vailable.				
		11. Tox	icologic	al inform	nation							
		11.1 Ac										
		11.1 A	ule toxic	ny								
			Compone	nt	L	I>s0(or	(ler	LDso(Tra	inscutaneous	LC	∩(inhala	tion 4h)
			l compon			lata ava			a available		o data av	
Eye protection Tightly fitting safely goggles (approved by EN 166(EU) orNIOSH	2010 1 4 1000 1 4 1 2 EUX 1 4 2		. tempen		1 110 0		autore	110 444	r u r un u r u	1 34	e data art	annore
Hand protection : Wear protective gloves (such as butyl rubber), passing the te	ests according toEN											
374(EU),US F739 or AS/NZS 2161.1 standard.												
Respiratory protection If exposure limits are exceeded or if irritation or o		11.2 Car	cinogeni	city:								
experienced, use a full- face respirator with multi-purpose combination (US) or	type AXBEK (EN			•								
14387) respirator cartridges.			Comp	600 6 00			L	ARC		1	NTP	
14387) respirator cartridges. Skin and body protection Wear fire/flame resistant/retardant clothing and antista	atic boots.			onent				ARC Listed			NTP t Listed	
14387) respirator cartridges.	atic boots.		Comp All com	onent								
14387) respirator cartridges. Skin and body protection Wear fire/flame resistant/retardant clothing and antists Other protection: Smoking, eating and drinking are forbidden on the job site. Mai habits.	atic boots.	11.3 Oth	Comp All com	onent								
1/487) respirator cartridges. Skin and hody protection - Wear fire/flame resistant/retardant clothing and antists. Other protection: Smoking, eating and drinking are forbidden on the job site. Mai habits.	atic boots.		Comp All com	onent								
14387) respirator cartridges. Skin and body protection Wear fire/flame resistant/retardant clothing and antists Other protection: Smoking, eating and drinking are forbidden on the job site. Mai habits.	atic boots.		Comp All com ers Corro	onent ponents Serio	Skin	Resp	Not	Specific	Specific	No Aspi	t Listed	Repro
1/387) respirator eartridges. Skin and body protection - Wear fire/flame resistant/retardant clothing and antists Other protection: Smoking, eating and drinking are forbidden on the job site. Mai habits. 9 ₃₀ Physical and chemical properties : Appearance: Transparent liquid.	atic boots.	11.3 Ott	Comp All com ers Corro sive	onent ponents Serio us eye	sensi	Resp	Not Repr oduc	Specific target	target	No Aspi ratio	Germ cell	ducti
14387) respirator cartridges. Stin and body protection . Wear fire/flame resistant/retardant clothing and antists Other protection: Smoking, eating and drinking are forbidden on the job site. Mair habits. 9a, Physical and chemical properties : Appearance: Transparent liquid. Odor: Weak cdor.	atic boots.	11.3 Ott	Comp All com kers Corro sive skin/	onent ponents Serio us eye dama	sensi tizati	irator y	Repr oduc tive	Specific target organ	target organ	No Aspi ratio n	Germ cell mutag	ducti ve
1/4897) respirator cartridges. Skin and body protection - Wear fire/flame resistant/retardant clothing and antists Other protection: Smoking, eating and drinking are forbidden on the job site. Mai: habits. 9 ₀ , Dhysical and chemical properties : Appearance: Transparent liquid. Odor: Weak odor. Odor threshold: Not available.	atic boots.	11.3 Ott	Comp All com ers Corro sive skin/ irritat	onent ponents Serio us eye dama ge/irri	sensi	irator y sensi	Repr oduc tive toxic	Specific target organ toxicity -	target organ toxicity -	Aspi ratio n haza	Germ cell	ducti ve toxici
1/387) respirator eatridges: Skin and body protection · Wear fire/flame resistant/retardant clothing and antists Other protection: Smoking, eating and diniking are forbidden on the job site. Mair habits. 9. ₉ , Physical and chemical properties : Appearance: Transparent liquid. Odor: Weak odor. Odor threshold: Not available. PH value: Not available.	atic boots.	11.3 Ott	Comp All com kers Corro sive skin/	onent ponents Serio us eye dama	sensi tizati	irator y sensi tizati	Repr oduc tive	Specific target organ toxicity - single	target organ toxicity - repeated	No Aspi ratio n	Germ cell mutag	ducti ve
14387) respirator cartridges. Skin and body protection - Wear fire/flame resistant/retardant clothing and antists. Other protection: Smoking, eating and drinking are forbidden on the job site. Mais habits. ag. Physical and chemical properties : Appearance: Transparent liquid. Odor: Weak codor. Odor: three kodor. Odor: three kodor. Odor: three kodor. Pit value: Not available. Pit value: Not available.	atic boots.	11.3 Ott	Comp All com ers Corro sive skin/ irritat	onent ponents Serio us eye dama ge/irri	sensi tizati	irator y sensi	Repr oduc tive toxic	Specific target organ toxicity -	target organ toxicity -	Aspi ratio n haza	Germ cell mutag	ducti ve toxici
14387) respirator eartifiques. Skin and body protection - Wear fire/flame resistant/retardant clothing and antisk Other protection: Smoking, eating and drinking are forbidden on the job site. Mai habits. Ag. Physical and chemical properties : Appearance: Transparent liquid. Odor: Weak odor. Odor: threshold: Not available. Pit value: Not available. Melting point/recrising point and bolling range (°C): Not available. Flash point (closed cup, °C): Not available. Flash point (closed cup, °C): Not available.	atic boots.	Compo nent	Comp All com ters Corro sive skin/ irritat ion	onent ponents Serio us eye dama ge/irri tation	sensi tizati on	irator y sensi tizati on	Repr oduc tive toxic ity	Specific target organ toxicity - single exposure	target organ toxicity - repeated exposure	No Aspi ratio n haza rd	Germ cell mutag enicit y	duĉti ve toxici ty
14387) respirator cartridges. Skin and hody protection . Wear fire/flame resistant/retardant clothing and antists Other protection: Smoking, eating and drinking are forbidden on the job site. Mai habits. 9., Physical and chemical properties : Appearamee: Transparent liquid. Odor: Weak odor. Odor: Meak odor. Odor: Meak odor. PH value: Not available. PH value: Not available. Melting point/freezing point (°C): Not available. Flash point (cooled cup. °C): Not available. Evaporation rate: No data available. Evaporation rate: No data available.	atic boots.	11.3 Ott	Comp All com wers Corro sive skin/ irritat ion No	Serio us eye dama ge/irri tation	sensi tizati on No	irator y sensi tizati on No	Repr oduc tive toxic ity No	Specific target organ toxicity - single exposure No data	target organ toxicity - repeated exposure No data	No Aspi ratio n haza rd No	Germ cell mutag enicit y No	ducti ve toxici ty No
14387) respirator cartridges. Skin and body protection - Wear fire/flame resistant/retardant clothing and antisk Other protection: Smoking, eating and drinking are forbidden on the job site. Mais habits. 9g, Physical and chemical properties : Appearance: Transparent liquid. Odor: Weak odor. Odor thresholt: Not available. PH value: Not available. Melting point/reczing point and bolling range (°C): Not available. Flash point (closed cup. °C): Not available. Evaporation rate: No data available. Phanmability (solid or gas): No data available. Flashmability (solid or gas): No data available.	atic boots.	11.3 Ott	Comp All com wers Corro sive skin/ irritat ion	Serio us eye dama ge/irri tation	sensi tizati on No data	irator y sensi tizati on No data	Repr oduc tive toxic ity No data	Specific target organ toxicity - single exposure	target organ toxicity - repeated exposure	No Aspi ratio n haza rd No data	derm derm cell mutag enicit y No data	ducti ve toxici ty No data
14387) respirator cartridges. Skin and hody protection . Wear fire/flame resistant/retardant clothing and antists Other protection: Smoking, eating and drinking are forbidden on the job site. Mai habits. 3a, Physical and chemical properties : Appearamce: Transparent liquid. Odor: Weak odor. Odor threshold: Not available. PH value: Not available. Melting point/free/ing point (*C): Not available. Initial boling point and boling range (*C): Not available. Flash point (closed cup, *C): Not available. Evaporation rate: No data available. Eplanmability (odid or gas): Not data available. Explosion upper/lower limit [%(v/y)]: No data available.	atic boots.	11.3 Off Component	Comp All com sers Corro sive skin/ irritat ion No data avail	Serio us eye dama ge/irri tation	sensi tizati on No	irator y sensi tizati on No	Repr oduc tive toxic ity No	Specific target organ toxicity - single exposure No data	target organ toxicity - repeated exposure No data	No Aspi ratio n haza rd No	Germ cell mutag enicit y No	ducti ve toxici ty No
14387) respirator cartridges. Skin and hody protection - Wear fire/flame resistant/retardant clothing and antisk Other protection: Smoking, eating and drinking are forbidden on the job site. Mai habits. 9a, Physical and chemical properties : Appearance: Transparent liquid. Odor: Weak cdor. Odor: Weak cdor. Odor threshold: Not available. Pit value: Not available. Pit value: Not available. Initial hoiling point and hoiling range (°C): Not available. Initial hoiling point and hoiling range (°C): Not available. Evaporation rate: Not ata available. Evaporation rate: Not data available. Evaporation rate: Not data available. Explosion upper/lower limit [%(v/v)]: No data available. Vapor enssity (air = 1): No data available.	atic boots.	11.3 Ort Component All components	Comp All com sers Corro sive skin/ irritat ion No data avail able.	onent ponents Serio us eye dama ge/irri tation No data availa ble.	sensi tizati on No data avail able.	irator y sensi tizati on No data avail	Repr oduc tive toxic ity No data avail	Specific target organ toxicity - single exposure No data	target organ toxicity - repeated exposure No data	No Aspi ratio n haza rd No data avail	derm cell mutag enicit y	duĉti ve toxici ty No data availa
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	Cleaning Ap	tent (FX-15)		SDSNO.:T191008023A	Tillest Technolo	gyEn, Ltd.	Clear	ing Agent (FX	-15)			SDSNO.:T19	1008023A
Component All component	Fish s No data ava		staceans a available.	Algae No data available.	and high	rbidden to us temperature c t and emerge	luring trans	portation. T	ransportatio	on vehicles a	shall be equ	ipped with	fire fig
2.2 Chronic aqua					shipping,	check wheth gns and ann	er the pack	aging conta	iner is com	plete and se	aled. On th	e transporta	ation me
Component All component	Fish s No data av		astaceans ta available.	Algae No data available.	15> Reg	ulatory info onal chemica							
2.3 Others							a inventor	, 					
Component	Persistence and degradability	Bioaccumulation	Soil mobility	Evaluation of PBT	Compone t	LINECO	TSCA	DSL	IECSC	NZIOC	PICCS	KECI	AIC
	No data available.	bioaccumulation No data	No data	and vPvB results No data available.	Non-ionio surfactant	Listed	Listed	Listed	Listed	Li sted	Listed	Listed	Liste
All components		available.	available.		Sodium	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Liste
3 > Disposal con	siderations				Others	N.A	N.A	N. A	N.A	N.A	N.A	N.A	N.A
Vaste chemicals: I ackaging: Residual om heat and sourc isposal considera 4. Transporta	f you need medical a hazards may still ex es of ignition. If poss tions: Refer to the "E tion information:	st after the contents ible, recycle them to bisposal" section.	of the packaging a the supplier for re	, .	r TSC. rDSL	ECS] Europ A United Sta Canadian D C1 China Inv	tes Toxic S omestic Sul	ubstances (bstances Lis	Control Act	Inventory	cal Substanc	ces	
ackaging: Residual actorn heat and source bisposal considera 4. Transportat 4. Transportat 4. Transportat 1. Transportation Da bel: None Marina tacking method: I nmpoule bottle out bel: None Marina tacking method: I nmpoule bottle out tacking method: I nmpoule bottle out action Non nd food additives; naid addit	f you need medical a hazards may still exe so of ignition. If poss tions: Refer to the "L" iion information: genus: Goods Num gmane: None UNR evolutants (Yes/No ack according to thi dide the ordinary wore ack according to thi dide the ordinary wore the ext at strictly prohi the exhaust pipe 1, which prohibits the a and high temperatus ing chain, and a ho	st after the contents ibble, recycle them to issposal" section. ber (UN No.): The isk Classification: N): No remanufacturer's rece den box. Threaded g ordinary wooden box ford to whice earry bied to mix and tra of the vehicle earry use of mechanical re during transportati le partition may be	of the packaging is the supplier for re- product is not da one Packing Cat mmendations, fo lass bottles, iron I ves. nsport with acids, ing this item m quipment and to on. The tank (tank arranged in the t	are emptied. Keep away seyeling. angerous. egory: None Packaging r example: open drums. ids, glass bottles, plastic , alkalis, oxidants, foods ast be equipped with a os that generate sparks. () used for transportation ank to reduce the static	c (TSC, tDSL) tIECS g [NZI c [NZI c 16, Ot s 161 Ra a [1]]PCS: http://ww [2]]ARC c 13] @CC c http://ww [4] CAN [5] NLN	A United Sta Canadian D C China Inv C New Ze S Philippino hers	tes Toxic S omestic Sul entory of E aland Inver es Inventory nal Chemic ficse/showe c//www.iar al Portal to d. org/echer s, website: , website:	aubstances (bstances Liz xisting Che tory of Chemic al Safety Cr ard.home, e.fr/. Information mportal/indk http://came ut/p//came	Control Act st emical Subst emicals and Che ards (ICSC) 1 on Chemicals sis Imm.in), estimation	Inventory tances mical Subst ,website: cal Substanc 0&request_1 noaa.gov/se gov/chemid/	ances es, website: locale=en. arch/simple Jus/chemid	Nitejsp.	



	[180705028A	Thest Technology Ea. Ltd. This product is norm	Cleaning Agent (Q ally used without		SDS NO.:T180705028/
1. Identification of the chemical and supplier		This product is horn	any used without	Internet.	
1.1 Product identifier		2.5.2 Health hazards			
Product Name: Cleaning Agent		This product is norm	ally used without	hazard.	
Product Model: QCJG-105					
Product Code:T180705028A		2.5.3 Environmental haz Please refer to 12th c			
1.2 Relevant identified uses of the substance or mixture and uses advised against		3、Composition/info	rmation on in-	predients	
Relevant identified uses: Cleaning the glass surface Uses advised against: Please consult manufacturer.		and an		Licarento	
Uses advised against. Please consult manuacturer.		Substance D Prepation Composition:			
1.3 Details of the supplier of the Safety Data Sheet		Component	CAS No.	EC No.	Concentration (weight percent, %)
Name of the company:FoShan FangXi Technolongy Co., Ltd		Component	CAS NO.	EC NO.	
Address of the company: Room602 19th Floor NanYi District, Guicheng HaiSan Road, Na	anHai FoSh	Potassium hydroxide	1310-73-2	215-185-5	15
Guangdong Telephone number: +86 757-86260662		Water	7732-18-5	231-791-2	45
Fax number:					40
Zip code:		Additives	100.000		40
mail address:SSH781026@163. COM		4. First aid measure	22		
Emergency phone number: +86 757-86260662 2、Hazards identification:		4.1 Description of first a	id measures	attention is requir	red. Show this safety data sheet (SDS) t
Emergency phone number: +86 757-86260662	ternational	4.1 Description of first a General advice: Im the doctor in attendance. Skin contact: Durin off with plenty of water for Ege contact: Rinss physician if fell uncomfor Inhalation:Under n decomposition products, oxygen. Do not use mout benathing, give artificial r Intake: Do not indud a physician or Poison Con Protecting of first-a Ensure that medical themselves and prevent sg 4.2 Most important symp.	id measures mediate medical i g production. takk at at least 15 mint table. The thoroughly will table. The thoroughly will irritation occurs. It is the mean of the table of the irritation occurs. It is the separation and con- tract of center imme iders: the table of the table of the intervention of the table of the table of the intervention of the table of the table of the intervention of the table of	e off contaminate tets and consult a h plenty of wate tions, no adven dove victim inte istation if victim istult a physician er give anything l diately. re of the substan ation. s, both acute an numan body, mag onal exposure.	d clothing and shoes immediately. Was physician if fell uncomfortable. r for at least 15 minutes and consult se effects will occur. If contact will ingested or inhaled the substance. If ne immediately. by mouth to an unconscious person. Cal ce involved. Take precautions to protect d delayed y occur and may cause some concern
Emergency phone number: +86 757-86260662 2. Hazards identification: 2.1 Hazard classification according to GHS: The product is not dangerous. 2.2 Label elements Hazard pictograms : None Signal word : None 2.3 Hazard statements: None 2.4 Precautionary statements A.1 Prevention None 2.4.2 Response None 2.4.3 Response None 2.4.3 Response None 2.4.3 Response None 2.4.3 Response None 2.4.4 Disposal PS01 Dispose of contents/container in accordance with local/regional/national/int	ternational	4.1 Description of first a General advice: Im the dector in attendance. Skin contact: Durin, off with plenty of water for the statistic states and the states physician if fell uncomfor Inhalation:Under n decomposition products, oxygen. Do not use mout benathing, give artificial r Intake. Do not indud a physician or Poison Cor Potecting of first-a Ensure that medical themselves and prevent sp 4.2 Most important sym 1) Substance accur following repeated of te 4.3 Indication of any im 1) Trat symptomatic 2) Symptoms may be	id measures mediate medical i g production, taks at laces 15 minut e thoroughly with table. The second second irritiation occurs. The measures experision and core e continity, New event that C center immer district and the second interview of the second district and the second district and the second prosmand effect mediate medical cally. e delayed.	e off contaminate tets and consult a h plenty of wate tions, no adven dove victim inte istation if victim istult a physician er give anything l diately. re of the substan ation. s, both acute an numan body, mag onal exposure.	d clothing and shoes immediately. Was physician if fell uncomfortable. r for at least 15 minutes and consult se effects will occur. If contact will ingested or inhaled the substance. If ne immediately. by mouth to an unconscious person. Cal ce involved. Take precautions to protect d delayed y occur and may cause some concern
Emergency phone number: +86 757-86260662 2. Hazard sidentification: 2.1 Hazard classification according to GHS: The product is not dangerous. 2.2 Label elements Hazard pictograms : None 2.3 Hazard statements: None 2.4 Precautionary statements 2.4 Prevention None 2.42 Response Not applicable 2.44 Disposal P501 Dispose of contents/container in accordance with local/regional/national/int regulations.	ternational	4.1 Description of first a General advice: Im the doctor in attendance. Skin contact: Durin, off with plenty of water for the system of the system of the system of the system of the oxygen. Do not use mout breathing, give artificial r Intake. Do not indud a physician or Poisson Cor Protecting of first-a Ensure that medical themselves and prevent sy 4.2 Most important symp 1) Substance accur following repeated or te 4.3 Indication of any im 1) The symptomic	id measures mediate medical i g production, taks at laces 15 minut e thoroughly with table. The second second irritiation occurs. The measures experision and core e continity, New event that C center immer district and the second interview of the second district and the second district and the second prosmand effect mediate medical cally. e delayed.	e off contaminate tets and consult a h plenty of wate tions, no adven dove victim inte istation if victim istult a physician er give anything l diately. re of the substan ation. s, both acute an numan body, mag onal exposure.	d clothing and shoes immediately. Was physician if fell uncomfortable. r for at least 15 minutes and consult se effects will occur. If contact will ingested or inhaled the substance. If ne immediately. by mouth to an unconscious person. Cal ce involved. Take precautions to protect d delayed y occur and may cause some concern

	SDS NO.:T180705028A	Tillest Techno	ngy Eo., ted. Cleaning J	Agent (QCJG-105)		SDS 1	NO.:T180705028/
5.1 Extinguishing media		1) Avoid i	nhalation of vapors.				
1) Suitable extinguishing media: Dry chemical, carbon dioxide or alcohol-re	esistant foam.	2) Use on	y non-sparking tools				
2) Unsuitable extinguishing media: Do not use a solid water stream as it may	y scatter or spread	3) To prev	ent fire caused by el	ectrostatic discha	irge steam, equip	ment on all met	al parts shoul
fire.		be grounded.					
5.2 Specific hazards arising from the substance or mixture		4) Use ex	olosion proof equipm	ent.			
 Will form explosive mixtures with air. 		5) Handlin	ng is performed in a v	well ventilated pla	ace.		
2) Fire exposed containers may vent contents through pressure relief valves t	thereby increasing	6) Wear s	itable protective equ	ipment.			
fire intensity and/ or vapour concentration.		7) Avoid o	ontact with skin and	cycs.			
Vapours may travel to source of ignition and flash back.		Keep a	way from heat/sparks	open flames/ ho	t surfaces.		
Liquid and vapour are flammable.		9) Take pr	ecautionary measure	s against static di	scharges.		
May emit poisonous fumes on fire.		7.2Precautions	for storage:				
Containers may explode when heated.		 Store in 	a cool, ventilated w	arehouse.			
7) Fire exposed containers may vent contents through pressure relief valves.		mperature should no	t exceed 37 °C, a	way from fire an	d heat sources.		
May expansion or decompose explosively when heated or involved in fire.	5.		e container sealed.				
5.3 Advice for firefighters			be stored separately			alogens, etc. Av	oid mixing.
1)As in any fire, wear self-contained breathing apparatus (MSHA/NIOS	SH approved or		olosion-proof lighting				
equivalent) and ull protective gear.			bidden to use mechan				
Fight fire from a safe distance, with adequate cover.			orage area should b	e equipped with	leakage emerge	ncy treatment e	equipment an
3)Prevent fire extinguishing water from contaminating surface water or t	the ground water	suitable contain	nent materials.				
system.		8, Exposure	controls/persona	al protection			
6. Accidental release measures							
		8.1 Control Par	ameters				
6.1 Personal precautions, protective equipment and emergency procedures		8.1.1 Occupation	nal exposure limits				
1) Avoid breathing vapors and contacting with skin and eye.							
 Avoid breathing vapors and contacting with skin and eye. Beware of vapours accumulating to form explosive concentrations. 			nal exposure limits xposure limit value	s			
 Avoid breathing vapors and contacting with skin and eye. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. 	Wee				12 . La L	T for the sector	. Cl
 Avoid breathing vapors and contacting with skin and eye. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Emergency personnel wear positive pressure self-contained breathing 	g apparatus. Wear			Limit value	e - Eight hours		e - Short term
 Avoid breathing vapors and contacting with skin and eye. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Emergency personnel wear positive pressure self-contained breathing protective and anti-static clothing. Wear chemical impermeable gloves. 	g apparatus. Wear	Occupational I	xposure limit value Country/Region	Limit value ppm	mg/m3	ppm	mg/m3
 Avoid breathing vapors and contacting with skin and eye. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Emergency personnel wear positive pressure self-contained breathing protective and anti-static clothing. Wear chemical impermeable gloves. Emure adequate ventilation. Remove all sources of rightion. 		Occupational I	xposure limit value Country/Region USA - OSHA	Limit value ppm Unspecified	mg/m3 Unspecified	ppm Unspecified	mg/m3 Unspecified
 Avoid breathing vapors and contacting with skin and sys. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Emergency personnel wear positive pressure self-contained breathing orderive and anti-static clothing. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Ensure series ensure shares. Keep people away from and upwind of s 	spill/leak.	Occupational I	Country/Region USA - OSHA South Korea	Limit value ppm Unspecified Unspecified	mg/m3 Unspecified Unspecified	ppm Unspecified Unspecified	mg/m3 Unspecified Unspecified
 Avoid breathing vapors and contacting with skin and eye. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Emergency personnel wear positive pressure self-contained breathing protective and and ristatic clothing. Wear chemical impermable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of s Vacuation of the safe areas. Keep people away from and upwind of s Vacuation of the safe areas. Keep people away from and upwind of s Vacuation of the safe areas. Keep people away from and upwind of s 	spill/leak.	Occupational I	Country/Region USA - OSHA South Korea Ireland	Limit value ppm Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified
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Chemic Agent (2020-106) SUBNOCTIONMERA SUBNOCTIONMERA assessment of exposure to chemical and biological agents. 2.GBZ/T 160.1-GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard). 8.2 Engineering controls 1.Ensure adequate ventilation, especially in confined areas. 2.Ensure that eventilations, especially in confined areas. 2.Ensure that eventilations, especially in confined areas. 2.Ensure that eventilations and safety showers are close to the workstation location. 3.Use explosion-proof electrical/ventilating/lighting/equipment. 4.Set up emergency exit and necessary risk-elimination area.	Octanol/ Auto-ign Decompo Viscosity Others: 1	ition ten sition te	iperatur	oefficie		ata ava	lable.				80705028A
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2.Ensure that eyewash stations and safety showers are close to the workstation location. 3.Use explosion-proof electrical ventilating lighting/equipment. 4.Set up emergency exit and necessary risk-elimination area.		ility ar	nd Reac	tivity:							
3.Use explosion-proof electrical/ventilating/lighting/equipment. 4.Set up emergency exit and necessary risk-elimination area.							21 DOCTOR		agartes in		
	reactions.	y: Com	act with	incom	pauble	materia	as can caus	se decompos	sition o	r otner	chemical
		etabilit	v. Stable	under t	he corre	et cond	itions of use	and storage.			
8.3 Personal protection equipment	Possibilit							and storage.			
General requirement:								, heat, humid	ity, etc.		
							ids, strong b		1.488/2242		
	Hazardo	us decor	nposition	produ	cts: No	data av	ailable.				
	11. Toxi	cologic	al infor	matio	n •						
				matio							
	11.1 Acut	e toxicit	У								
Eve protection : Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).	0				Ds#(oral		ID (Trans	cutaneous)	IC	inhalati	
		ompone compon			ata avail		No data :			data ava	
Hand protection :Wear protective gloves (such as butyl rubber), passing the tests according toEN 374(EU),US F739 or AS/NZS 2161.1 standard.				INO G	na avan	aure	INO data s	available	140	uata ava	naoie
Respiratory protection : If exposure limits are exceeded or if irritation or other symptoms are	11.2 Care	inogeni	city:								
experienced, use a full- face respirator with multi-purpose combination (US) or type AXBEK (EN	-	Comp	ment	-		TA	RC	-	N	TP	
14387) respirator cartridges.		All com		-			Listed			Listed	
Skin and body protection : Wear fire/flame resistant/retardant clothing and antistatic boots.		in com	ponento	-		1101	Citited		1101	Distea	
Other protection: Smoking, eating and drinking are forbidden on the job site. Maintain good hygiene habits.	11.3 Othe	ers									
9, Physical and chemical properties :		Corro	Serio	Skin	Resp	Repr	Specific	Specific	Aspi	Germ	Repro
Appearance: Light yellow.		sive	us eye	sensi	irator	oduc	target	target	ratio	cell	ducti
Odor: Weak odor.	Compo		dama	tizati	у	tive	organ	organ	n	mutag	ve
Odor threshold: Not available.	nent	irritat	ge/irri	on	sensi	toxic	toxicity -	toxicity -	haza	enicit	toxici
PH value: Not available.		ion	tation		tizati	ity	single	repeated	rd	У	ty
Melting point/freezing point (°C): Not available.					on		exposure	exposure			
Initial boiling point and boiling range (°C): Not available.		NI.	N.	NT.	No	No	No data	No data	NI.	No	No
Flash point (closed cup, °C): Not available.	All	No data	No data	No data	data	data	available.	available.	No data	data	data
Evaporation rate: No data available.	compo	avail	availa	avail		avail	avanable.	available.	avail	availa	availa
Flammability (solid or gas): No data available. Explosion upper/lower limit [%(v/v)]: No data available.	nents	able.	ble.	able.		able.			able.	ble.	ble.
Vapor pressure (kPa) :No data available.					dore.	aore.			uore.	one.	ore.
Vapor density (air = 1): No data available.	12. Ecol	ogical	informa	tion:							
Relative density (water = 1): No data available.	1011										
Solubility (mg/L): No data available.	12,1 Act	ute aqu	atic tox	icity							
TJTest GHS SDS Report(E)-T180705028A 6/ 10 Date: 05-July-18	TJTest GHS	SDS Repor	t/E)-T18070	15028.4			7/10			Deter	05-July-18

	Cleaning Agen		2	SDS NO.:T180705028A	<u>A</u>		a	
Component	Fish		Crustaceans data available.	Algae	-		forbidden to d high tempe	
All components	j.	mable. 19	data available.	No data available.	1	fightin quanti	g equipment ies. Before st rtation mean	and
12.2 Chronic aquat					_		t transportatio	
Component	Fish		Crustaceans	Algae		15	Regulatory	info
All components	s No data ava	ailable. N	o data available.	No data available.		Inter	ational chem	ical
12.3 Others						Compo	ne	
Component	Persistence and	Bioaccumulat	ion Soil mobili		1	nt	EINECS	- 23
	degradability	or bioaccumulat	on	PBT and vPvB results		Potassi hydrox	Listed	1
All components	No data	No data	No data	No data		Wate	Listed	1
· · · · · · · · · · · · · · · · · · ·	available.	available.	available.	available.		Additi	N.A	
Waste chemicals: If Contaminated packa emptied. Keep away ecycling.	'you need medical a iging: Residual haza	ards may still e rees of ignition.	xist after the conte If possible, recycle	ers or labels. nts of the packaging are them to the supplier fo		(TSC [DSI	ECS Europ A United] Canadian SC China I	Stat Doi
Waste chemicals: If Contaminated packa emptied. Keep away ecycling. Disposal considerat	tions: 'you need medical a ging: Residual haze from heat and sour	ards may still e rees of ignition. Disposal" sectio	xist after the conte If possible, recycle	nts of the packaging an		[TSG [DSJ [IEC	A] United] Canadian	Stat Dor nver
Waste chemicals: If Contaminated packa emptied. Keep away recycling. Disposal considerat 14. Transport: United Nations Dat	tions: you need medical a ging: Residual hazz from heat and sour tions: Refer to the "I ation information agerous Goods Nun	ards may still e rees of ignition. Disposal" sectio n:	xist after the conte If possible, recycle n.	nts of the packaging are them to the supplier fo		[TSG [DS] [IEC [NZI [PIC	A] United] Canadian SC] China I SC] New Zo CS] Philipp	Stat Dor nver
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Contaminated packa mptied. Keep away recycling. Disposal considerat 14, Transport: United Nations Dau UN proper shippin; UN Risk Classificat Packing Category:	tions: ² you need medical a ging: Residual haz from heat and sour tions: Refer to the "I ation information ngerous Goods Nun g name: None tion: None None	ards may still e rees of ignition. Disposal" sectio n:	xist after the conte If possible, recycle n.	nts of the packaging are them to the supplier fo		[TSG [DS] [EC [NZ] [PIC 16, 16.1	A] United] Canadian SC] China I SC] New Zd CS] Philipp Others Reference :	Stat Dor nver calar
Waste chemicals: If Contaminated packa amptied. Keep away eccycling. Disposal consideran 14. Transporta United Nations Dau Un proper shippin UN Risk Classifican	tions: "you need medical a gging: Residual hazz from heat and sour tions: Refer to the "J attion information ngerous Goods Num grame: None tion: None None one	ards may still e rees of ignition. Disposal" sectio n:	xist after the conte If possible, recycle n.	nts of the packaging are them to the supplier fo		[TSG [DS] [EC [NZ] [PIC 16, 16, [1]PC	A] United] Canadian SC] China I SC] New Zd CS] Philipp Others Reference : S:The In	Stat Dor nver ealar ines
Waste chemicals: II Contaminated packa mptied. Keep away eeveling. Disposal considerat 14. Transport: United Nations Dat UN Risk Classificat Packing Category: Packaging label: N Marine Pollutants 1 Packing method: P.	tions: 'you need medical a ligging: Residual hazy from heat and sour from heat and sour thom information gerous Goodo Num gerous Goodo Num gerous Goodo Num gerous Goodo Num gename: None tion: None None one (Yes/No): No tok according to the	ards may still e crees of ignition. Disposal" sectio n: nber (UN No.): : manufacturer's	xist after the conte If possible, recycle n. The product is not recommendations,	nts of the packaging an them to the supplier fo langerous. for example: open drum:	97 15.	[TSG [DSJ [IEC [NZJ [PIC 16. 16. 16. 11][P] http://	A] United] Canadian SC] China I SC] New Zd CS] Philipp Others Reference : S:The In www.ilo.org/d	Stat Doi nvei calai ines ines
Waste chemicals: Il Contaminated packa mprided. Keep away ecycling. Usiposal considerat 14. Transport: United Nations Dan UN Risk Classificat Packing Category: Packing Label: N Marine Pollutants is Packing methol: P.	tions: you need medical a ging: Residual haza from heat and sour tions: Refer to the "1 ation information ugerous Goods Nun g name: None tion: None	ards may still e rcces of ignition. Disposal [*] sectio n: nber (UN No.): manufacturet's ooden box. Thu	xist after the conte If possible, recycle n. The product is not recommendations, eaded glass bottles	nts of the packaging are them to the supplier fo Jangerous.	97 15.	(TSG (DS) (TEC (NZ) (PIC 16, 16,1 ()][PC http:// (2][JA]	A] United] Canadian SC] China I SC] New Zd CS] Philipp Others Reference : S:The In In S:The In In	Stat Dor nver ealar ines iterr yn/i http
Waste chemicals: Il Contaminated pack mptied. Keep away weeveling. Disposal considerat 14. Transport: United Nations Dau UN Risk Classifica WA Risk Classifica Packing Category: Packaging label: N. Marine Pollutants Packing method: P. Ampoule bottle out	tions: 'you need medical a gging: Residual hazz from heat and sour tions: Refer to the "l ation information ng name: None tion: None None None None Yes/No: No nek according to the side the ordinary w al drums (cans) out	ards may still e crees of ignition. Disposal" sectio n: nber (UN No.): manufacturer's ooden box. Thu side the ordinary	sist after the conte If possible, recycle n. The product is not recommendations, eaded glass bottles wooden boxes.	nts of the packaging an them to the supplier fo Jangerous. For example: open drum iron lids, glass bottles	ıs. s,	[TSG [DS3 [HzZ [NZ2 [Proc 16, 1,1]]P [http:// [2]]JAJ [3]00 [http://	A] United] Canadian SC] China I SC] China I SC] New Z CS] Philipp Others Reference : S:The In www.ilo.org/d C, website: 2D: The www.echemptone	Stat Doi nvei calai ines ines iterr yn/i http Gloj rtal
Waste chemicals: Il Contaminated packs mpried. Kcep awarg weyeling. Disposal considerara 14. Transport. United Nations Dan UN Risk Classifica Packing Category: Packaging label: N Marine Pollutants i Aracking method: P. Ampoule bottle out olastic bottles or met-	tions: you need medical a ging: Residual huz; from heat and sour tions: Refer to the "1 ation information ugerous Goods Num g name: None tons: None one Yues/Noi: No neck according to the side the ordinary wa al drums (cams) out te: 11 is strictly pro	ards may still e reces of ignition. Disposal* sectio n: nber (UN No.): manufacturer's coden box. Thi side the ordinary shibited to mix	sist after the conte If possible, recycle n. The product is not recommendations, caded glass bottles wooden boxes.	nts of the packaging an them to the supplier fo langerous. For example: open drumm, iron lids, glass bottles acids, alkalis, oxidants	ış. 8, 8,	[TSG [DS] [HEC [NZ] [PIC 16. 16.1 11] [][PL http:// 13]O[http:// [3]O[http:// [4][A]	A] United] Canadian SC] China I SC] China I SC] New Za CS] Philipp Others Reference : S:The Ir www.echempo MBO Chemie	Stat Doi nvei calai ines ines iterr yn/i http Glo' ortal als,
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Cleaning Agent (OCK0-105) SUS NO.17107/59028A ided no use wooden boats and cement ships for bulk transportation. Avoid exposure, h temperature during transportation. Transportation vehicles shall be equipped with fire injument and emergency response treatment equipment of corresponding types and follow shiping, check whether the packsaging container is complete and sealed. On the n means, bazard signs and announcements should be posted in accordance with the sportation requirements.

Compone nt	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS
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Water	Listed							
Additives	N. A							

China Inventory of Existing Chemical Substances

New Zealand Inventory of Chemicals

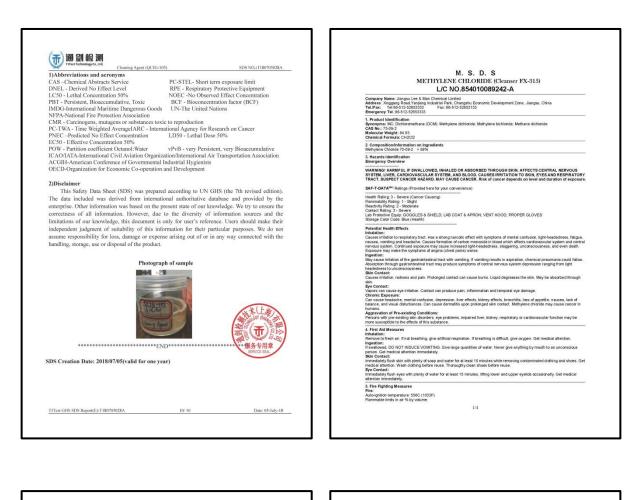
Philippines Inventory of Chemicals and Chemical Substances

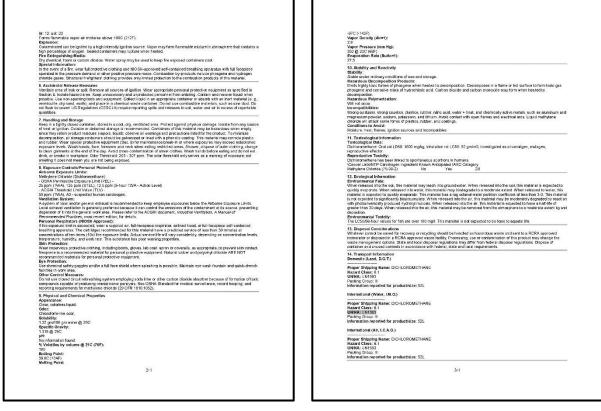
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Date: 05-July-18

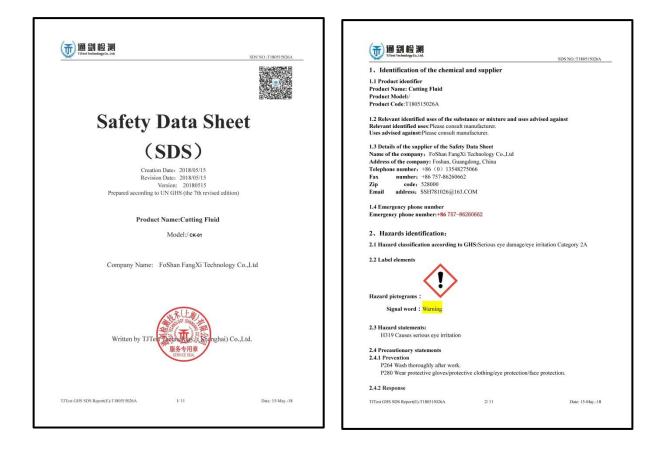




Methylene Chlonde (75-09-2) Yes Yes Yes Yes 	西陇科学 エLONG SCIENTIFIC CO., LTE Material Safety Data Shee						
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Eyes: Rush eyes with planty of water for at least 15 minutes, occasionally liking the space and leaver systels. Get medical aid Erinhation Date: Thosh share by dwater for at least 15 minutes, solve encoding contaminated coloring and shoes. Get medical aid Erinhation develops of protects. Work colling before reuse. Eyestion: Die alt blace sconding. Friedmin is conscious and alter, give 3-4 scythols of rolk at water. Get medical aid. Bindefinite: Die alt blace sconding. Friedmin is conscious and alter, give 3-4 scythols of rolk at water. Get medical aid. Bindefinite: Die alt blace sconding. Friedmin is conscious and alter, give 3-4 scythols of rolk at water. Get medical aid. Bindefinite: Die alt blace sconding. Friedmin at conscious and alter. Die 3-4 scythols of rolk at water. Get medical aid. Bindefinite: Die alter blace sconding. Die al	explorate and/ United Dates ODIA. 18 within TWN, batel and, 15 might TWN, is periods teaction of these under calculation endows begins TWN, (base a subset and another); 19 might VLE Preses. VMD; (base a subset and subset); 19 might VLE Mices (bidde a science model); 19 might VLE Preses. VMD; (base a science); 19 might VLE preses data (Materia); 19 might VLE Prese: Robert and the model); 19 might VLE preses. Materia: 19 might VLE preses: 40 might VLE preses. Materia: 19 might VLE preses: 40 might VLE preses: 40 might VLE preses protective synghesis ar chemical unity program as deviced by ODIA's and and these protection regulations in 20 CFR 1910 132 European Danaded E1168: Their: Ware appropriate growtership explores the modership.
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Ploch siln with plenty of water for at least 15 minutes while enrouning contaminated clobing and shoes. Get medical aid filmbalion develops a previols. Weak clothing buffore rease. I particle. Do not index or conting. If vicitin is conscious and alter, give 3-4 capitals of mits ar water. Out medical and whatdace: Remove Is me appower and move Is freech air immediately. If not breaking, give antifield requiration. If breaking is difficult, give organ. Out medical aid financy or other symptoms appeare. Notes to Physican: Section 5 - FIRE FIGHTING MEASURES Coefficient Virgination:	(Held es calcium cathorate): 10 mpHs3 VME Japan: (Held es calcium cathorate): 1 mpHs3 DEL (regulative du 4 mpHs3 DEL fed dard) Mahyali, (date a calcium cathorate): 10 mpHs3 TVA dependial matter cathorate) as abatess and 1% explainte sil historitative (1) mpHs3 MCE Japan: (mgHs3 TVA dependial matter cathorate) as abatess and 1% explainte sil historitative (1) mpHs3 MCE Japan: (mgHs3 TVA dependial matter cathorate) as abatess and 1% explainte sil Langean Dandard EN 68. Dan: Were repropriete gloves is prevent siln exposure. Combing: Were repropriete gloves is prevent siln exposure.
devalges ar pendist. Wach Indeling before mose. Implications Dea Hadres wonting: "Findelin is consistore and after, give 3-4 supfals of milk an water," Det medical and, Implications: Bearrow Tam reporting and provide and implications of the article integration. If breathing is difficult, give oxyges. Get medical all forces of or other symptoms appear. Inders to Physician: © Section 5 - FIRE FIGHTING MEABURES General Mammation:	dud) Makyuki (diada se calitain carbonato): 19 ngin5 704 (perioda mater carbining na sebastas and r1% crystaline all Materianici. 19 ngin5 Matc. Rassa & ngin5 TMA (period 19 ngin5 VLA ED Personal Patienties Egyment Eyres View reports protective erglasses or inheriti allel gragges as describe to OSMX way and face portection regulations in 20 cFR 1915.133 European Danated ED168. Sam: Ware appropriate glows is prevent skin expresses. Colling: Ware appropriate protective during to monitize contact with skin.
legenism De di Nulse sufficienti in conscione and allert give 3-4 supfihs of nells ar water. Det medical and Inhaldron: Remost him exposure and move to feach all immediately if not breakling give antikiad respitation. If breakling is difficult give ongens. Or mendical af a factor of more symptoms represer. Notes to Physices: Section 5 - FIRE FLOAKTING MEASURES General Manyanize:	Nambarkon, 19 ngols) MUC (hava, et ngols) MUA (Spec: 19 ngols) VAA D Arean A Indexton Engineerin D yee View spong products engingeness of contexts of addy progres as distributed by OSHA's eye and first protection regulations in 28 CFR 1919.333 Engineerin Standard 20198. Sale: Waar appropriate glowes to prevent bill exposure. Colomy: Waar appropriate protection doubling to minimize contact with skin.
Do de bloce vonding. Friedmin sconstow and alert give 24 ongelss similar of writer. Get medical ed. Ishabalan: Remote the nouse said move to break air immediately. If not breakhing give antificial regarded: If Deskting is difficut, give oxygen. Get medical al of Encyls or other symptom appear. Notes to Physican: Central University of the Status Statu	protective syngheses in chemical and/g progress as described by OSHA's eye and face protection negations in 20 CFR 1912 133 European Brandwel DI Mil. Sour: Werr appropriate glowes is prevent skin exposure. Chemiqu: Werr appropriate protective doching to minimize contact with skin.
Inhabation: Remove fran reporter and move to levels at immediately. If not levelshing, give actified reported on. If breathing is difficult, give oxygen. Det medical eff fraugh or other symptoms appear Notes to Physician: Section 5 - FIRE (FlockTING MEASURES General Monators:	Europen Dandend Childs. Dan: Warr appropriate gloves to prevent skin exposure. Coming: Warr appropriate protective skinks gloveninetic contact with skin.
Remore from exposure and move to fresh all immediately. If not breaking, give artifield inequitation. If breaking is difficult, give oxygen. Out medical aid if couple or other symptoms exposer. Notes to Physician:	Skin: Were repropriete gloves to prevent skin exposure. Collering: Ware appropriete protective dathing to minimize contact with skin.
Del medica del Facily e other synatomi espese. Retes la Physician: Section 5 - FIRE FLOITING MEASURES General Monatori:	Werr appropriate gloves to prevent skin exposure. Clothing: Wear appropriate protective dothing to minimize contact with skin.
Notes to Physician: © Section 5 - FIRE FIGHTING MEASURED General Information:	Clothing: Wear appropriate protective clothing to minimize contect with skin.
Section 5 - FIRE FIGHTING MEASURES General Information:	Wear appropriate protective clothing to minimize contact with skin.
General Information:	
General Information:	Bandiators
General Information:	temp more .
General Information:	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSHMSHA or Europea
	Standard EN 149 approved respirator if exposure limits are exceeded or if imitation or other symptoms are experienced.
protective gear. During a fire, initiating and highly toxic gases may be generated by thermal decomposition or combustion.	
Non-combustible, substance itself does not burn but may decompose upon heating to produce imitating, corrosive and/or toxic fumes.	O Section 9 - PHYSICAL AND CHEMICAL PROPERTIES
Extinguishing Media:	Physical State: Solid
Substance is noncombustible; use agent most appropriete to extinguish surrounding fire.	
	Color: white
	Odor: odorless
Section 6 - ACCIDENTAL RELEASE MEASURES	pH: 8-9 (solution) Vapor Pressure: Not available.
General Information: Use proper personal protective equipment as indicated in Section 8.	Vapor Pressure: Not available. Viscosity: Not available.
SpirsLeaks	Viscosity: Not available. Boiling Point: Not evailable.
Vacuum or tweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation.	Boling Point: Not available. FreezingMelting Point: 825 deg C (dec)
Consistence of the second second production of the second second second second production of the second s	
	Autoignition Temperature: Not applicable.
	Rash Point: Not applicable. Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.	
Exprostor timin, upper root eventure. Decomposition Temperature: 825 deg C	Section 14 - TRANSPORT INFORMATION
Solubility in water: Slightly soluble in water.	
Specific Gravity/Density 2.7-2.9	IATA
Molecular Formula: CaCO3	Not regulated as a hazardous material.
Molecular Weight: 100.09	MO
manager, reger, recov	Not regulated as a hazardous material.
	RIDIADR
	Not regulated as a hazardous material.
Section 10 - STABILITY AND REACTIVITY	The regulation as a material local method.
Chemical Stability:	
Stable.	
Conditions to Avoid:	Section 15 - REGULATORY INFORMATION
Dust generation, moisture, high humidity.	
Incompatibilities with Other Materials:	European/International Regulations
Will ignite on contact with fluorise; incompatible with acids, alum, ammonium salts and marcury + hydrogen.	European Labeling in Accordance with EC Directives
Hazardsus Decomposition Products:	Hazard Symbols: XI
Calcium oxide.	Risk Phrases:
Hazardsus Polymerization: Has not been reported.	R 36 initiating to eyes.
	Safety Phrases
	S 26 in case of contact with eyes, rinse immediately
	with plenty of water and seek medical advice.
ection 11 - TOXICOLOGICAL INFORMATION	\$ 39 Wear eye/face protection.
TECOR	WGK (Weber Danger/Protection)
CAS# 471-34-1: FF9335000 LD50/LC50:	CAS# 471-34-1: 0
CAS# 471-34-1: Draize test, rabbit, eye: 750 ug/24H Severe; Draize test, rabbit, skin: 500 mg/24H Moderate; Oral, ret: LD50 = 6460	Canada
ng kg.	CAS# 471-34-1 is listed on Canada's D3L List.
Carcinogenicity:	CAS#471-34-1 is not listed on Canada's Ingredient Disclosure List.
Calcium carbonate - Not listed by ACGIH, IARC, or NTP.	US FEDERAL
Other	TSCA
See actual entry in RTECS for complete information.	CAS# 471-34-1 is listed on the TSCA inventory.
	016. OTHER INFORMATION
Section 12 - ECOLOGICAL INFORMATION	Further information
Ecetoxicity: This chemical is expected to cause no oxygen depletion in aquatic systems. It has a low potential to affect equatic organisms. Acute	Copyright 2017 Xilong Scientific Co., Ltd. License granted to make unlimited paper copies for internal use only.
This chemical is expected to cause no oxygen depletion in aquatic systems. It has a low potential to affect equatic organisms. Acute equatic effects: 48-hour LC50; Mosquito fish: 56,000 mgL.	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The infor
represe wares, to new score, managed this 00,000 mg/s.	in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate
	precautions. It does not represent any guarantee of the properties of the product. Xilling Scientific Co., 13d. and its Affliates shall
	held liable for any damage resulting from handling or from contact with the above product. See www.xilongs.com and/or the reverse
Section 13 - DISPOSAL CONSIDERATIONS	of invoice or packing slip for additional terms and conditions of sale.
Dispose of in a manner consistent with federal, state, and local regulations.	



D227 D212 IC	-fine and the Cost of the	and a declary (attempt)	SDS NO. T180515026A	<u>**</u>
	ation persists: Get medi		1 10	decomposi
	asily remove it, remove		eral minutes. If you wear a	oxygen. De breathing,
contact tens and can e	isity remove it, remove	the contact tens. Cont	nue rinsing.	Intak
2.4.3 Storage				a physician
None.				Prote
rione.				Ensur
2.4.4 Disposal				themselves
None.				4.2 Most in
				1) S
2.5 Hazard description				followin
2.5.1 Physical and chemic	al hazards			4.3 Indica
This product is normal	lly used without hazard.			1) Tr
				2) Sy
2.5.2 Health hazards				5、Firef
Causes serious eye irri	tation.			
5.4 h				5.1 Extin
2.5.3 Environmental haza				1) S
Please refer to 12th ch	apter of SDS.			2) Ui
3、Composition/infor	mation on ingredie	nts		fire.
anaran ² ara a <u>-</u>	N			5.2 Specifi
Substance Departion				1) W
Composition:				2) Fi
		1	Concentration	fire intensi
Component	CAS No.	EC No.	(weight percent, %)	3) Va 4) Li
				5) M
	102-71-6	203-049-8	25%	6) C
Triethanolamine			10%	7) Fi
Surfactant				
			20%	8) M 5.3 Advice
Surfactant Lubricant				5.3 Advice
Surfactant			20%	5.3 Advice 1)As
Surfactant Lubricant Others			20%	5.3 Advice 1)As equivalent
Surfactant Lubricant Others			20%	5.3 Advice 1)As equivalent 2)Fig
Surfactant Lubricant Others 4. First aid measures			20%	5.3 Advice 1)As equivalent 2)Fig
Surfactant Lubricant Others 4. First aid measures 4.1 Description of first aid	l measures	n is required. Show the	20% 45%	5.3 Advice 1)As equivalent 2)Fig 3)Pre system.
Surfactant Lubricant Others 4. First aid measures 4.1 Description of first aid General advice: Imm	l measures	n is required. Show thi	20%	5.3 Advice 1)As equivalent 2)Fig 3)Pre system. 6, Accie
Surfactant Lubricant Others 4. First aid measures 4.1 Description of first ai General advice: Imn the doctor in attendance.	d measures nediate medical attention		20% 45%	5.3 Advice 1)As equivalent 2)Fig 3)Pre system. 6, Accie 6.1 Persor
Surfactant Lubricant Others 4. First aid measures 4.1 Description of first ai General advice. Imm the doctor in attendance. Skin contact: During	I measures nediate medical attention production, take off co	ntaminated clothing a	20% 20% 45% s safety data sheet (SDS) to ad shoes immediately. Wash	5.3 Advice 1)As equivalent 2)Fig 3)Pre- system. 6. Accio 6.1 Person 1) A
Surfactant Lubricant Others 4. First aid measures 4.1 Description of first ai General advice. Imm the doctor in attendance. Skin contact: During Of with plenty of water for Off with plenty of water for	d measures nediate medical attention production, take off co at least 15 minutes and	ntaminated clothing an consult a physician if	20% 20% 45% s safety data sheet (SDS) to ad shoes immediately. Wash	 5.3 Advice 1)As equivalent 2)Fig 3)Pre system. 6. Accid 6.1 Person 1) A 2) B
Surfactant Lubricant Others 4. First aid measures 4.1 Description of first ai General advice. Imm the doctor in attendance. Skin contact: During Of with plenty of water for Off with plenty of water for	I measures aediate medical attention production, take off co at least 15 minutes and thoroughly with plenty	ntaminated clothing an consult a physician if	20% 20% 45% s safety data sheet (SDS) to ad shoes immediately. Wash fell uncomfortable.	 5.3 Advice 1)As equivalent 2)Fig 3)Fire system. 6. Accie 6.1 Proxon 1) A 2) B 3) V
Surfactant Lubricant Others 4. First aid measures 4.1 Description of first aid General advice; Inm the doctor in attendance. Skin contact: During off with plenty of water for Eye contact: Rims physician if fell uncomfort	I measures neediate medical attention production, take off co at least 15 minutes and thoroughly with plenty able.	ntaminated clothing an consult a physician if y of water for at least	20% 20% 45% s safety data sheet (SDS) to ad shoes immediately. Wash fell uncomfortable.	 5.3 Advice 1)As equivalent 2)Fig 3)Fire system. 6. Accie 6.1 Proxon 1) A 2) B 3) V
Surfactant Lubricant Others 4. First aid measures 4.1 Description of first aid General advice: Inur the doctor in attendance. Skin contact: During off with plenty of water for Eye contact: Rime Physician if fell uncomfort	I measures teciate medical attention production, take off co at least 15 minutes and thoroughly with plenty toble.	ntaminated clothing an consult a physician if y of water for at least	20% 20% 45% s safety data sheet (SDS) to d shoes immediately. Wash fell uncomfortable. 15 minutes and consult a	5.3 Advice 1)As equivalent 2)Figi 3)Pre

These reconverge ed. (10)	SDS NO. T180	5150264
oxygen. Do not use mouth to mouth res breathing, give artificial respiration and	s.Move victim into fresh air. If breathing is diffic ascitation if victim ingested or inhaled the substance consult a physician immediately.	ult, giv e. If no
Intake: Do not induce vomiting. N a physician or Poison Control Center im Protecting of first-aiders:	ever give anything by mouth to an unconscious pers nediately.	on. Ca
Ensure that medical personnel are a	ware of the substance involved. Take precautions to	protec
themselves and prevent spread of contar		
4.2 Most important symptoms and eff		
following repeated or long-term occup		oncern
	al attention and special treatment needed	
 Treat symptomatically. Symptoms may be delayed. 		
5. Firefighting measures		
5.1 Extinguishing media		
	Dry chemical, carbon dioxide or alcohol-resistant fo	
	Do not use a solid water stream as it may scatter o	r sprea
fire.		
5.2 Specific hazards arising from the		
 Will form explosive mixtures w 		
	at contents through pressure relief valves thereby in	creasing
fire intensity and/ or vapour concentration		
 3) Vapours may travel to source of 4) Used and the source of 		
 Liquid and vapour are flammab Mercenting 		
 May emit poisonous fumes on 1 Containers may explode when 1 		
	eated. at contents through pressure relief valves.	
	contents through pressure rener valves.	
5.3 Advice for firefighters	question internation of involved in file.	
	ed breathing apparatus (MSHA/NIOSH appr	oved o
2)Fight fire from a safe distance, w	th adequate cover. from contaminating surface water or the groun	d wate
system.		
6. Accidental release measures		
	viewant and amouganer; proceedings	
6.1 Personal precautions, protective ed 1) Avoid breathing vapors and cor	acting with skin and eye.	
 Beware of vapours accumulating 		
 Vapours can accumulate in low 		
 Emergency personnel wear p 	ositive pressure self-contained breathing apparatu	s. Wea
TJTest GHS SDS Report(E)-T180515026A	4/11 Date: 15	May18

sDS NO.7180515026A protective and anti-static clothing. Wear chemical impermeable gloves.		logy Co., Ltd.			SDS N	IO. T180515026A		
			ppm	mg/m3	ppm	mg/m3		
5) Ensure adequate ventilation. Remove all sources of ignition.		USA - OSHA	Unspecified	Unspecified	Unspecified			
6) Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.		South Korea	Unspecified	Unspecified	Unspecified	Unspecified		
7) Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.		Ireland	Unspecified	Unspecified	Unspecified	Unspecified		
6.2 Environmental precautions		Germany (AGS	Unspecified	Unspecified	Unspecified	Unspecified		
1)Prevent further leakage or spillage if safe to do so.		Denmark	Unspecified	Unspecified	Unspecified	Unspecified		
Discharge into the environment must be avoided.	All	Australia	Unspecified	Unspecified	Unspecified	Unspecified		
6.3Methods and materials for containment and cleaning up	components	South Korea	Unspecified	Unspecified	Unspecified	Unspecified		
1 > Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage,		Ireland	Unspecified	Unspecified	Unspecified	Unspecified		
contain a spill by bunding.		Germany (AGS	Unspecified	Unspecified	Unspecified	Unspecified		
 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. 		Denmark	Unspecified	Unspecified	Unspecified	Unspecified		
 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. 		Australia	Unspecified	Unspecified	Unspecified	Unspecified		
7. Handling and storage :	8.1.2Biological	limit values						
7.1 Precautions for handling:	Biological limit	values: No informa	tion available					
 Avoid inhalation of vapors. 	8.1.3 Monitoria							
Use only non-sparking tools.		Workplace atmosphe			d use of proce	edures for the		
3) To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should	assessment of	exposure to chemica	l and biological a	gents.				
be grounded.	2.GBZ/T 160	.1-GBZ/T 160.81-20	04 Determination	of toxic substar	ces in workpla	ce air (Serie		
Use explosion proof equipment.	standard).							
Handling is performed in a well ventilated place.	8.2 Engineerin	g controls						
Wear suitable protective equipment.		juate ventilation, esp	cially in confine	l areas.				
Avoid contact with skin and eyes.		evewash stations and			orkstation locat	ion.		
Keep away from heat/sparks/open flames/ hot surfaces.		on-proof electrical/ve						
Take precautionary measures against static discharges.	4.Set up emer	gency exit and neces	sary risk-eliminat	ion area.				
		8.3 Personal protection equipment						
7.2Precautions for storage:	8.3 Personal J	rotection equipmen						
1) Store in a cool, ventilated warehouse.	8.3 Personal I General requir		·					
 Store in a cool, ventilated warehouse. Store temperature should not exceed 37 °C, away from fire and heat sources. 								
 Store in a cool, ventilated warehouse. Store temperature should not exceed 37 °C, away from fire and heat sources. Keep the container sealed. 								
 Store in a cool, ventilated warehouse. Store temperature should not exceed 37 °C, away from fire and heat sources. Keep the container sealed. Should be stored separately from oxidants, reducing agents, halogens, etc. Avoid mixing. 				7				
 Store in a cool, ventilated warehouse. Store temperature should not exceed 37 °C, away from fire and heat sources. Keep the container sealed. Should be stored separately from oxidants, reducing agents, halogens, etc. Avoid mixing. Use explosion-proof lighting and ventilation facilities. 			👰 (7		1.1.1.1		
 Store in a cool, ventilated warehouse. Store temperature should not exceed 37 °C, away from fire and heat sources. Keep the container sealed. Should be stored separately from oxidants, reducing agents, halogens, etc. Avoid mixing. Use explosion-proof lighting and ventilation facilities. It is forbidden to use mechanical equipment and tools that easily produce sparks. 				3				
 Store in a cool, ventilated warehouse. Store temperature should not exceed 37 °C, away from fire and heat sources. Keep the container sealed. Should be stored separately from oxidants, reducing agents, halogens, etc. Avoid mixing. Use explosion-proof lighting and ventilation facilities. 	General requi			3				
 Store in a cool, ventilated warehouse. Store in a cool, ventilated warehouse. Store temperature should not exceed 37 °C, away from fire and heat sources. Keep the container sealed. Should be stored separately from oxidants, reducing agents, halogens, etc. Avoid mixing. Use explosion-proof lighting and ventilation facilities. It is forbidden to use mechanical equipment and tools that easily produce sparks. The storage area should be equipped with leakage emergency treatment equipment and suitable containment materials. 	General requir	ement:	ty goggles (appro					
 Store in a cool, ventilated warehouse. Store temperature should not exceed 37 °C, away from fire and heat sources. Keep the container sealed. Should be stored separately from oxidants, reducing agents, halogens, etc. Avoid mixing. Use explosion-proof lighting and ventilation facilities. It is forbidden to use mechanical equipment and tools that easily produce sparks. The storage area should be equipped with leakage emergency treatment equipment and suitable containment materials. Exposure controls/personal protection 	General requir	ement:	ty goggles (appro gloves (such as b					
 Store in a cool, ventilated warehouse. Store temperature should not exceed 37 °C, away from fire and heat sources. Keep the container sealed. Should be stored separately from oxidants, reducing agents, halogens, etc. Avoid mixing. Use explosion-proof lighting and ventilation facilities. It is forbidden to use mechanical equipment and tools that easily produce sparks. The storage area should be equipped with leakage emergency treatment equipment and suitable containment materials. 8. Exposure controls/personal protection 	General requir	ement:	ty goggles (appro gloves (such as b 1 standard.	utyl rubber), pas	sing the tests a	ecording toE?		
 Store in a cool, ventilated warehouse. Store temperature should not exceed 37 °C, away from fire and heat sources. Keep the container sealed. Should be stored separately from oxidants, reducing agents, halogens, etc. Avoid mixing. Use explosion-proof lighting and ventilation facilities. It is forbidden to use mechanical equipment and tools that easily produce sparks. The storage area should be equipped with leakage emergency treatment equipment and suitable containment materials. Exposure controls/personal protection 	General requir Eye protection Hand protecti 374(EU)US F7 Respiratory p	ement:	ty goggles (appro gloves (such as b 1 standard. ure limits are ex	utyl rubber), pas ceeded or if irrit	sing the tests a ation or other	ccording toEl		
 Store in a cool, ventilated warehouse. Store temperature should not exceed 37 °C, away from fire and heat sources. Keep the container sealed. Should be stored separately from oxidants, reducing agents, halogens, etc. Avoid mixing. Use explosion-proof lighting and ventilation facilities. It is forbidden to use mechanical equipment and tools that easily produce sparks. The storage area should be equipped with leakage emergency treatment equipment and suitable containment materials. Exposure controls/personal protection Control Parameters I Occupational exposure limits 	General requir	ement: Tightly fitting safe on :Wear protective p 39 or AS/NZS 2161. rotection : If exposs ea full-face respira	ty goggles (appro gloves (such as b 1 standard. ure limits are ex	utyl rubber), pas ceeded or if irrit	sing the tests a ation or other	ccording toE? symptoms ar		
 Store in a cool, ventilated warehouse. Store temperature should not exceed 37 °C, away from fire and heat sources. Keep the container sealed. Should be stored separately from oxidants, reducing agents, halogens, etc. Avoid mixing. Use explosion-proof lighting and ventilation facilities. It is forbidden to use mechanical equipment and tools that easily produce sparks. The storage area should be equipped with leakage emergency treatment equipment and suitable containment materials. 8. Exposure controls/personal protection 	General requir Eye protection Hand protection 374(EU),US F Respiratory p experienced, us 14387/ respirat	ement: Tightly fitting safe or AS/NZS 2161. rotection : If expose ae a full-face respira or cartridges.	ty goggles (approgles) distandard. ure limits are ex- tor with multi-pu	utyl rubber), pas ceeded or if irrit rpose combinatio	ation or other on (US) or type	ecording toE1 symptoms ar AXBEK (E1		
 Store in a cool, ventilated warehouse. Store temperature should not exceed 37 °C, away from fire and heat sources. Keep the container sealed. Should be stored separately from oxidants, reducing agents, halogens, etc. Avoid mixing. Use explosion-proof lighting and ventilation facilities. It is forbidden to use mechanical equipment and tools that easily produce sparks. The storage area should be equipped with leakage emergency treatment equipment and suitable containment materials. Exposure controls/personal protection Control Parameters In Occupational exposure limits Occupational Exposure limit values 	General requir Eye protection Hand protectio 374(EU)JUST Respiratory p experienced, u 14387) respirat Skin and body	ement: Tightly fitting safe on :Wear protective j or ASN252 2161. rotection : If expos e a full-face respira or cartridges. protection : Wear fi	ty goggles (approgles) l standard. ure limits are ex tor with multi-pu ire/flame resistant	utyl rubber), pas ceeded or if irrit rpose combinatio /retardant clothir	ation or other on (US) or type og and antistatio	ccording toEf symptoms ar AXBEK (Ef boots.		
 Store in a cool, ventilated warehouse. Store temperature should not exceed 37 °C, away from fire and heat sources. Store the container sealed. Stop the container sealed. Should be stored separately from oxidants, reducing agents, halogens, etc. Avoid mixing. Use explosion-proof lighting and ventilation facilities. It is forbidden to use mechanical equipment and tools that easily produce sparks. The storage area should be equipped with leakage emergency treatment equipment and suitable containment materials. Exposure controls/personal protection 8.1 Control Parameters 8.1 Occupational exposure limits 	General requir Eye protection Hand protectio 374(EU)JUST Respiratory p experienced, u 14387) respirat Skin and body	ement: Tightly fitting safe or AS/NZS 2161. rotection : If expose ae a full-face respira or cartridges.	ty goggles (approgles) l standard. ure limits are ex tor with multi-pu ire/flame resistant	utyl rubber), pas ceeded or if irrit rpose combinatio /retardant clothir	ation or other on (US) or type og and antistatio	ccording toEf symptoms ar AXBEK (Ef boots.		

			SDS NO. T180515026A		All components Not I				t Listed Not Listed				30515026A	
9, Physical and chemica	al properties :				rui com	ponento			1101	Linea		1101	Linea	
	a properties .			11.3 Oth	ers									
Appearance: Liquid. Odor: Weak odor.					I.e.		Let						1 -	[
Odor: weak odor. Odor threshold: No data avai	lable				Согго	Serio		Resp	Repr	Specific	Specific	Aspi	Germ	Repro
PH value: 8.	lable.			Compo	sive skin/	us eye dama		irator	odue tive	target organ	target organ	ratio	cell mutag	ducti ve
Melting point/freezing point	(°C): No data av	vailable.		nent	irritat	ge/irri		y sensi	toxic	toxicity -	toxicity -	n haza	enicit	toxici
Initial boiling point and boil	ing range (°C):	No data available.		inem	ion	tation		tizati	ity	single	repeated	rd	v	ty
Flash point (closed cup, °C):	No data availa	ble.			ion	unon		on		exposure	exposure	10	2	N
Evaporation rate: No data av														
Flammability (solid or gas):				All	Not	Not	Not	Not	Not	Not	Not	Not	Not	Not
Explosion upper/lower limit		ulable.		compo	avail	availa	avail	avail	avail	available	available	avail	availa	availa
Vapor pressure (kPa) :Not available. Vapor density (air = 1): Not available.				nents	able	ble	able	able	able			able	ble	ble
Relative density (air = 1): Not: Relative density (water = 1):				12. Eco	logical	inform	ation:							
Solubility (mg/L): Soluble in				12. 1.00	ogical	morm	atton.							
Octanol/water partition coef		ble		12.1 Ac	ute aqu	atic to:	cicity							
Auto-ignition temperature (Fish	0			1
Decomposition temperature					Component				Fish Not availabl	e Not av			gae	
Viscosity: No data available					All components				INOT available	e Notav	anabie	inot a	ranabie	
Others: Resistance value: No	t available.													
10. Stability and Reactiv	ity:			12.2 Chr	onic aqu	atic toxi	city							
Reactivity: Contact with in	1000 (100) (1000 (1000 (100) (1000 (100) (1000 (100) (1000 (100) (100) (100) (100) (100) (1000 (100) (iting an other abandont											
reactions.	compatible mater	hars can cause decompos	fuon of other chemical	Co	omponen	it		Fish		Crusta			Algae	
Chemical stability: stable und	ler the correct con	ditions of use and storage		All	compone	ents	Not	Not available Not		Not av	ot available		Not available	
Possibility of hazardous rea			ing a risk of combustion											
explosion.				12.3 Oth	ers									
Conditions to avoid: Electros	tatic discharge, he	at, humidity, etc.												
Incompatible materials: Stro				Com	ponent		sistence a				Soil mobil	ity	Evalua	
Hazardous decomposition			age and use, hazardous		0001		degradability			or		PBT		
decomposition products should	I not be produced.			4.11	nponents		t availab			eumulation available Not available			and vPvB results le Not available	
11. Toxicological informa	tion:			All col	nponents	s inc	e availab	oic	NOT a	vallable	Not avalla	bie	INOT av	anabie
11.1 Acute toxicity				13、Dis	enosal e	onside	rations							
Commente	LDso(oral)	LD ₅₀ (Transcutaneous)	LC (inholotion (b)	200001 0				as mu	ch as n	ossible.If it ca	nnot be rec	veled u	se incine	ration for
Component All components	Not available	Not available	Not available							of discharge to			or meme	rution for
An components	Two available	I wor available	Por available							sidual hazards			er the co	ontents of
11.2 Carcinogenicity:				the packa	ging are	emptied	Keep a	way fro	om hea	t and sources	of ignition.	If poss	ible, recy	vele them
				to the sup	plier for	recyclin	g.							
	1	ARC	NTP	Disposal	consider	rations:	Refer to	the "Di	sposal"	section.				
Component														
Component														

	削检测 theology.Coltd						SDS NO. T	180515026A	ment hetwalage Ca. Ltd. SDS NO.718051502
14、 Tran	sportatio	n inform	ation:						16, Others
United Natio					The produ	at is not day	and the second		
UN proper si				(014 140.).	The produ	et is not dai	igerous.		16.1 Reference :
UN Risk Cla									 [1]IPCS: The International Chemical Safety Cards (ICSC) ,web: http://www.ilo.org/dyn/icsc/showcard.home.
Packing Cat									[2]IARC, website: http://www.iarc.fr/.
Packaging la									[3]OECD: The Global Portal to Information on Chemical Substances, web
Marine Polla	itants (Yes/	No): No							http://www.echemportal.org/echemportal/index?pageID=0&request locale=en.
Packing met									[4]CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
Ampoule bot							ron lids, gla	ass bottles,	[5]NLM:ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.
plastic bottles									[6]EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/. [7]U.S. Department of Transportation:ERG, website: http://www.phmsa.dot.gov/hazmat/library/e
Transportati									[8]Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.
foods and foc fire-retardant									
sparks. Avoid									16.2 Others:
transportation									
reduce the sta									1)Abbreviations and acronyms
n	prohibited t	o mix an	d transpo	rt with oxid	dants, acids	s, foods an	d food add	tives. It is	CAS - Chemical Abstracts Service PC-STEL- Short term exposure limit
it is strictly									
It is strictly strictly forbic				cement sh	ips for bull	k transporta	tion. Avoid	exposure,	DNEL - Derived No Effect Level RPE - Respiratory Protective Equipment LC50 - Lethal Concentration 50% NOEC - No Observed Effect Concentration
	lden to use	wooden I	boats and						LC50 - Lethal Concentration 50% NOEC - No Observed Effect Concentration PBT - Persistent, Bioaceumulative, Toxic BCF - Bioconcentration factor (BCF)
strictly forbic rain, and high fighting equi	lden to use temperatur pment and	wooden I re during t emergen	poats and ransporta cy respor	tion. Transp ise treatme	portation ve	chicles shall ent of con	be equippo responding	ed with fire types and	LCS0 - Lethal Concentration 50% NOEC -No Observed Effect Concentration PBT - Persistent, Bioaccumulative, Toxic IMDG-International Maritime Dangerous Goods UN-The United Nations
strictly forbic rain, and high fighting equi quantities. Be	Iden to use temperatur pment and fore shippi	wooden I re during t emergen ng, check	poats and ransporta cy respor whether	tion. Transp ise treatme the packagi	portation ve int equipmong containe	chicles shall ent of con er is comple	be equippo responding ete and seal	ed with fire types and ed. On the	LC59 - Lethal Concentration 50% NOEC-No Observed Effect Concentration PBT - Persistent, Einoceannulative, Toxic BCF - Bioconcentration factor (BCF) IMTXI-International Martinue Dangerous Groods UN-The United Nations NFFA-National Fire Protection Association
strictly forbic rain, and high fighting equi quantities. Be transportation	Iden to use temperatur pment and fore shippi t means, he	wooden I re during t emergen ng, check izard sign	poats and ransporta cy respor whether s and ann	tion. Transp ise treatme the packagi	portation ve int equipmong containe	chicles shall ent of con er is comple	be equippo responding ete and seal	ed with fire types and ed. On the	LCS0 - Lethal Concentration 50% NOEC -No Observed Effect Concentration PBT - Persistent, Bioaccumulative, Toxic IMDG-International Maritime Dangerous Goods UN-The United Nations
strictly forbic rain, and high fighting equi quantities. Be transportation relevant trans	Iden to use a temperatur pment and fore shippi a means, he portation re	wooden I re during t emergen ng, check izard sign quirement	poats and ransporta cy respor whether s and ann s.	tion. Transp ise treatme the packagi	portation ve int equipmong containe	chicles shall ent of con er is comple	be equippo responding ete and seal	ed with fire types and ed. On the	LC:50 - Lethal Concentration 50% NOEC -No Observed Effect Concentration PBT - Persistent, Bioaccanulative, Toxic BCF - Bioconcentration factor (BCF) IMDG-International Maritime Dangerous Goods UN-The United Nations NFPA-National Fire Protection Association CMR - Carcinogens, mutagens or substances toxic to reproduction PC-TWA - Time Weighted AverageIARC - International Agency for Research on Cancer PNEC - Predicted No Effect Concentration LD:50 - Lethal Dose 50%
strictly forbic rain, and high fighting equi quantities. Be transportation	Iden to use a temperatur pment and fore shippi a means, he portation re	wooden I re during t emergen ng, check izard sign quirement	poats and ransporta cy respor whether s and ann s.	tion. Transp ise treatme the packagi	portation ve int equipmong containe	chicles shall ent of con er is comple	be equippo responding ete and seal	ed with fire types and ed. On the	LC59 - Lethal Concentration 50% NOEC - No Observed Effect Concentration PBT - Persistent, Elonecanulative, Toxic BCF - Bioconcentration factor (BCF) IMIXi-International Maritime Dangerous Groods UN-The United Nations NFFA-National Fire Protection Association CMR - Carcinogens, mutagens or substances toxic to reproduction PC-TWA - Time Weighted AverageIARC - International Agency for Research on Cancer PNICe - Predicted No Effect Concentration LD50 - Lethal Dose 50%
strictly forbic rain, and high fighting equi quantities. Be transportation relevant trans	Iden to use a temperatur pment and efore shippi a means, ha portation re atory info	wooden I re during t emergen ng, check izard sign quirement ormation	poats and ransporta cy respor whether s and ann s.	tion. Transp ise treatme the packagi	portation ve int equipmong containe	chicles shall ent of con er is comple	be equippo responding ete and seal	ed with fire types and ed. On the	LC:90 - Lethal Concentration 50% NOEC -No Observed Effect Concentration PBT - Persistent, Bioaccamulative, Toxic IMDG-International Maritime Dangerous Goods UN-The United Nations NIPA-National Fire Protection Association UN-The United Nations CMR - Curricogenes, mutagenes or substances toxic to reproduction Protection 4.85 (2014) PC-TWA - Time Weighted Average/ARC - International Agency for Research on Cancer PNEC - Predicted No Effect Concentration DoS - Lotal Dose 50% EC30 - Effective Concentration 50% VPB - very Persistent, very Bioaccumulative
strictly forbic rain, and high fighting equi quantities. Be transportatior relevant trans 15, Regul	Iden to use a temperatur pment and efore shippi a means, ha portation re atory info	wooden I re during t emergen ng, check izard sign quirement ormation inventory	poats and ransporta cy respor whether s and ann s.	tion. Transp ise treatme the packagi	portation ve int equipmong containe	chicles shall ent of con er is comple	be equippo responding ete and seal	ed with fire types and ed. On the	LC59 - Lethal Concentration 50% NOEC - No Observed Effect Concentration PBT - Persistent, Elonecanulative, Toxic BCF - Bioconcentration factor (BCF) IMIXi-International Maritime Dangerous Groods UN-The United Nations NFFA-National Fire Protection Association CMR - Carcinogens, mutagens or substances toxic to reproduction PC-TWA - Time Weighted AverageIARC - International Agency for Research on Cancer PNICe - Predicted No Effect Concentration LD50 - Lethal Dose 50%
strictly forbic rain, and high fighting equi quantities. Be transportation relevant trans 15. Regul Internationa <u>Component</u> Triethanola	den to use a temperatur pment and efore shippi a means, ha portation re atory info	wooden I re during t emergen ng, check izard sign quirement ormation inventory	poats and ransporta cy respon whether s and ann s.	tion. Transp ise treatme the packagi nouncement	ortation ve int equipmong contained is should b	chicles shall ent of com er is comple e posted ir	be equippe responding ete and seal a accordance	d with fire types and ed. On the e with the	LC59 - Lethal Concentration 50% NOEC - No Observed Effect Concentration PBT - Persistent, Risecannalative, Toxic NCFC - Bioconcentration factor (BCF) IMIX-I-International Maritime Dangerous Goods UN-The United Nations NFPA-National Fire Protection Association CMT-The United Nations PC-TWA - Time Weighted AverageIARC - International Agency for Research on Cancer PNICe - Predicted No Effect Concentration LD50 - Lethal Dose 50% PCM - Traine Weighted AverageIARC - International Agency for Research on Cancer PNICe - Predicted No Effect Concentration LD50 - Lethal Dose 50% PCM - Traine Weighted AverageIAnion Organization International Air Transportation Association (CAO/IATA-International Civil Aviation Organization International Air Transportation Association
strictly forbic rain, and high fighting equi quantities. Be transportation relevant trans 15. Regul Internationa Component Triethanola mine	iden to use in temperatur pment and efore shippi in means, ha portation re atory info al chemical EINECS Listed	wooden I re during t emergeno ng, check zard sign quirement ormation inventory TSCA Listed	poats and ransporta cy respon whether s and any s.	tion. Transpise treatment the packagi nouncement IECSC Listed	oortation ve ant equipmong contained s should b NZIoC Listed	ent of complete posted in PICCS	be equippe responding ete and seal a accordance KECI Listed	d with fire types and ed. On the e with the AICS Listed	LCS9 - Lethal Concentration 50% NOEC - No Observed Effect Concentration PBT - Persistent, Risecannalative, Toxic NETA - Persistent, Risecannalative, Toxic NCF - Bioconcentration factor (RCF) IMIX-I-International Maritime Dangerous Groods UN-The United Nations NETA-National Fire Protection Association CM-The United Nations PC-TWA - Time Weighted AverageLARC - International Agency for Research on Cancer PNIC - Predicted No Effect Concentration POS - Effective Concentration 50% UND - Lethal Done 50% POW - Partition coefficient Octanol: Water vPB - very Persistent, very Bionecumulative ICAO/IATA-International Civil Aviation Organization International Air Transportation Association ACGIH-American Conference of Governmental Industrial Hygienists OECD-Organization for Economic Co-operation and Development.
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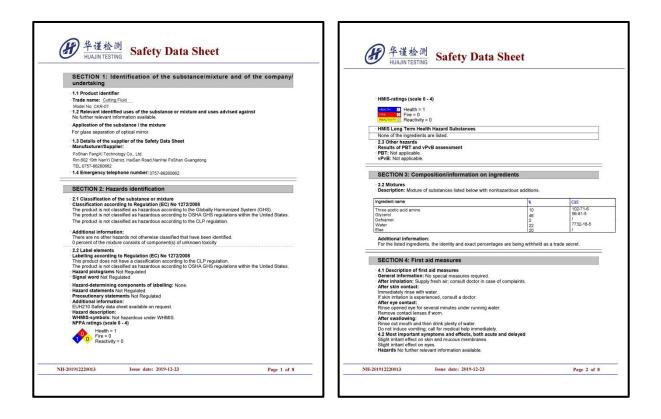
	「通知限測 TheriteknologyCo_144, SDS NO.:T180515026A		
			31-1020Z 16 December 2015 1 / 3
	Photograph of samp		SAFETY DATA SHEET I. CHEMICAL PRODUCT & COMPANY IDENTIFICATION Chemical Product Name : CUTTING LIQUID (GREEN CUT) Name of Manufacturer : INKKO SANAVYO CO., LTD, Name of Section : Research & Development Division Address : 4657, NAKATU, AIEAWA-CID, AIRO-GUN, KANAGAWA-KEN, JAPAN Telyphone Number : 181-46-235-09420 FXX Number : 81-46-235-0420
	END		2. COMPOSITION (INFORMATION INCREDIENTS Substance / Mixture : Mixture Generic Name : Water Soluble Grinding Fluid Ingredients and Composition : Water ; 313 mass/s CAS Registry Number : Registered UN Class : Net Applicable UN Number : Not Applicable
05	Creation Date: 2018/05/15 (valid for one year)	- 32 32 30 11 2007 10700 - 75 12 AAA 12 AAA 13 AAA 14 AAAA 15 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	A. HAZARDS IDENTIFICATION Class Name of Hazardous Chemical for SDS in Japan : Flammable liquids Physical and Chemical Hazards : Flammable liquids Adverse Human Health Hazards : There is not the useful information. Environmental Effects : There is not the useful information. FIRST-AID MEASURES
			 TINST-FULT DECOURS: Gently rinse the affected eyes with clean water for at least 15 minutes. Arrange for transport to the nearest medical facility for examination and treatment by a physician sus soon as possible. IF ON SKIN Remove all contaminated clothing, shows and socks from the affected areas as quicky as possible, cuting the outfit models and socks from the affected areas under topid running water using a mild soap. IF INHALED Remove the vicitin from the contamination immediately to fresh air. Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible. IF SWALLOWED: Do not induce vomiting: Do not give an unconcision genon anything to drink. Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon an possible.
			5. ACCIDENTAL RELEASE MEASURES Evacuate non essential personnel. Wear proper protective equipriment. Eliminate all sources of ignition and ventilate the area. Abarbo apil with incer transmittel (day sand or earth), then place in a chemical waste container with covers for disposal, using no sparking tools.
a	st GHS SDS Report(E)-T10515026A 11/11 Date: 15-May-1		NIKKO SANGYO CO., LID.
	2 / 2 / 2 / 2 CHANDLING AND STORAGE Handline : Evacuate non essential personnel. Use only in the well-wentilited reases. Keep continuer tightly closed. Would contact with kein or cyce. Would contact with kein or cyce. Would contact with kein or cyce. Storage : Store in a cool, div, well-wentilited location. Keep away from heat, steam ippe or savingita. Separate from coldizing nuterial. Chandle concegnency shower and cyce wends in the work area. Menominal Protection :		31-10202 16 December 2015 3 / 3 December 2015 3 / 3 Correstive and Friend Properties(Skin Effects): Repeated or prolonged contact may cause akin sentitization. Altergenia and Sensitizing Effect : Nor available Auster Toxicity Correstive and Sensitizing Effect Correstive and Sensitizing Effects Correstive and Sensitizing Effects Correstive and Sensitizing Effects Terret is not the useful information. Effects Correstive and Sensitizing Effects Correstive and Sensitizing Effects There is not the useful information. Biodegradubility There is not the useful information. Biodegradubility There is not the useful information. Biodegradubility There is not the useful information.<
	6. HANDLING AND STORAGE Handling : Evacuate non essential personnel. Ma cell in the well-wentilated areas. More cargo in the hybrid damage. Avoid contact with takin or cyce. Stores in a cell day, well-wentilated location. Keep away from heat, ateam pipe or sunlight. Separate from corrections material. Make available emergency shower and eye wash in the work area. Make available emergency shower and eye wash in the work area. Make available emergency shower and eye wash in the work area. Personal Protective Equipment Respiratory Protection : Industrial Canister gas marks: Eye Protection : Gaggte		10. TOXICOLOGICALINFORMATION Carrosive and Irriant Properties(Skin Effects) : Repeated or prolonged contact may cause skin sensitization. Allergenia and Sensitizing Effects : Role value (Skin Effects) : Role value (Skin Effects) : Status (Skin Effects) : Skin (Skin Effects) : Skin (Skin Effects) : There is not the useful information. Chronic Toxicity : There is not the useful information. Chronic Toxicity : There is not the useful information. Chronic Effects : There is not the useful information. Effects on The Reproductive System : There is not the useful information. Tentogenic Effects : There is not the useful information. Tentogenic Effects : There is not the useful information. Effects on The Reproductive System : There is not the useful information. Tentogenic Effects : There is not the useful information. Biologgendability : There is not the useful information. Biologgendability : There is not the useful information. Biologenductive Useful : There is not the useful information. Biologenductive Useful : There is not the useful information. Biologenductive Useful : There is not useful information. Biologenductive Useful : There is not useful information. Fish Toxicity : : There is not useful information.

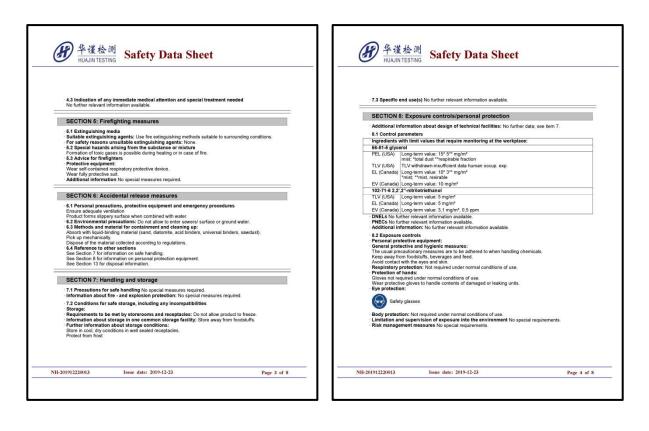
NIKKO SANGYO CO., LTD.

The information herein is given in good faith, but no warranty, express or implied, is a MABLICHI SAT INK. 385 Higuchi, ... Kamina, Nagano, 898-0497 JAPAN The man gen gen un

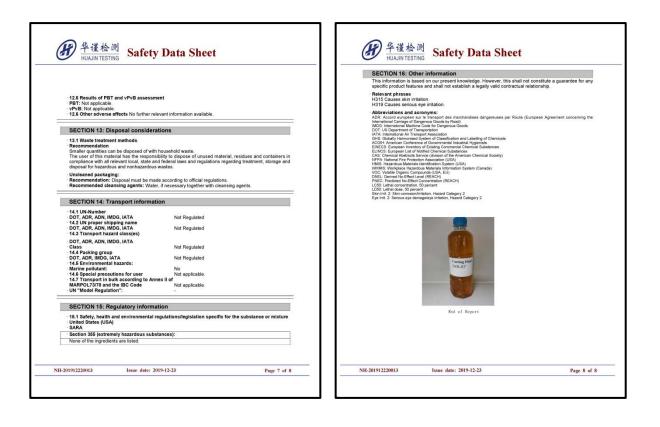
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NIKKO SANGYO CO., LTD.





HUAJIN TESTING SATEL	y Data Sheet		HUAJIN TES	Safety Data Sheet	
SECTION 9: Physical and chem	ical properties	_	SECTION 10-S	tability and reactivity	
9.1 Information on basic physical and			10.1 Reactivity	in the second seco	
General Information Appearance: Form: Colour:	Liquid Pale brown		 10.2 Chemical state Thermal decomposition in the the the the the the the the the the	sition / conditions to be avoided: f used and stored according to specifications. hazardous reactions	
Odour: Odour threshold:	Not determined. Not determined.		Reacts with strong Reacts with strong		
			10.4 Conditions to	avoid No further relevant information available.	
pH-value:	Not determined.			materials: No further relevant information available. ecomposition products:	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Not Determined. Undetermined.		Carbon monoxide a Toxic metal compo	and carbon dioxide	
- Flash point:	Not applicable.				
Flammability (solid, gaseous):	Not applicable.		SECTION 11: T	oxicological information	
Auto/Self-ignition temperature:	400 °C (752 °F)		11.1 Information of	n toxicological effects	
Decomposition temperature:	Not determined.		Acute toxicity:		
- Self-igniting:	Product is not self-igniting.		Primary irritant eff	evant for classification: None.	
Danger of explosion:	Product does not present an explosion hazard.		on the skin: No im	tant effect.	
Explosion limits: Lower: Upper:	Not determined. Not determined.		- Subacute to chron	ating effect. sensitising effects known. hic toxicity: No further relevant information available. ocical information:	
Vapour pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)		The product is no	t subject to classification according to the calculation method of the	e General EU
Density: Relative density Vapour density Evaporation rate	Not determined. Not determined. Not determined. Not determined.		When used and ha experience and the Repeated dose to	elines for Preparations as issued in the latest version. ndled according to specifications, the product does not have any harmfu information provided to us. xietity: No further relevant information available. inogenity, mutagenicity and toxicity for reproduction): None.	I effects to our
 Solubility in / Miscibility with water: 	Fully miscible.		SECTION 12: E	cological information	
· Partition coefficient (n-octanol/water)	Not determined.		12.1 Toxicity	.	
Viscosity: Dynamic: Kinematic: 9.2 Other information	Not determined. Not determined. No further relevant information available.		Aquatic toxicity: N 12.2 Persistence a 12.3 Bioaccumula 12.4 Mobility in so Additional ecolog General notes: Water hazard class Do not allow undit	lo futher relevant information available, and degrachability, for uther relevance information available, titve potential No futher relevant information available, il No futher relevant information available. I No futher relevant information available. I I German Regulation) (Sielf-assessment): slightly hazardous for water ded product of relevant pushed in the reach ground water, water cou	irse or sewage
			system.		



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前副起測 Tithe I technology Ga. Life Cutting Oil SDSNO. T191123024A	
Thest Technology Co., 1td. Cutting Oil SDSNO.:T191123024A	Cutting Oil SDS NO.: T191123024A
	1 Identification of the chemical and supplier
	1.1 Product identifier Product Name: Cutting Oil
	Product Model: QXY-281 Product
	Code:T191123024A
Safety Data Sheet	1.2 Relevant identified uses of the substance or mixture and uses advised against
Safety Data Sheet	Relevant identified uses:Glass cleaning - lubrication Uses advised against:Please consult manufacturer.
	Uses advised against:Please consult manufacturer.
(CDC)	1.3 Details of the supplier of the Safety Data Sheet
(SDS)	Name of the company:FoShan FangXi Technolongy Co., Ltd
<pre></pre>	Address of the company: Room602 19th Floor NanYi District, Guicheng HaiSan Road, NanHai FoSh
Creation Date : 2019/11/23	Guangdong
Revision Date : 2019/11/23	Telephone number: +86 757-86260662 Fax number: Zip code : mail address:SSH781026@163. COM Emergency phone number: +86
Version: 20191123 Prepared according to UN GHS (the 7th revised edition)	757-86260662
Prepared according to UN GHS (the /th revised edition)	151-60200002
	2 Hazards identification:
AND INTERPORT OF A MAN WORK	2.1 Hazard classification according to GHS: The product is not dangerous.
Product Name: Cutting Oil	2.2 Label elements
	Hazard pictograms : None
Model: QXY-281	filmed word - News
	Signal word : None
	2.3 Hazard statements: None
Company Name: FoShan FangXi Technolongy Co., Ltd	
	2.4 Precautionary statements
	2.4.1 Prevention
	None
	2.4.2 Response
	None
· · · · · · · · · · · · · · · · · · ·	2.4.3 Storage
and the second s	Not applicable
	2.4.4 Disposal
Written by TJTer Tachadrey Shanghai) Co.,Ltd.	P501 Dispose of contents/container in accordance with local/regional/national/international
服务专用章	regulations.
SERVICE SEAL	
	2.5 Hazard description
TJTrest GHS SDS Report(E)-T191123024A 1/10 Date: 23-Nov19	TJTest GHS SDS Report(E)-T191123024A 2/10 Date: 23-Nov19

	Cutting O	il	SDS NO.: T191123024A	Tiftest TechnologyEn, Ltd. Cutting Oil		SDS NO.: T191123024
2.5.1 Physical and che	mical hazards			5.1 Extinguishing media		
This product is non		hazard.		 Suitable extinguishing media : Dry ch 	hemical, carbon dioxide or a	lcohol-resistant foam.
				 Unsuitable extinguishing media - Do 		
2.5.2 Health hazards				fire.		
This product is non	nally used without	hazard.		5.2 Specific hazards arising from the substa	ance or mixture	
				 Will form explosive mixtures with air 		
2.5.3 Environmental l				Fire exposed containers may vent con	tents through pressure relief	f valves thereby increasing
Please refer to 12th	chapter of SDS.			fire intensity and/ or vapour concentration.		
3、 Composition/info	rmation on ingre	dients		 Vapours may travel to source of ignition Liquidand vapourare flammable. 	on and flash back.	
0.1. / D	0			 Liquidand vapourare naminable. May emit poisonous fumes on fire. 		
Substance Prepation Composition:	0			 6) Containers may explode when heated. 		
-	GHEN	PON		 Containers may explode when heated. Fire exposed containers may vent cont 	tents through pressure relief	valves.
Component	CAS No.	EC No.	Concentration (weight percent, %)	 May expansion or decompose explosiv 		
mineral oil	8042-47-5	232-455-8	95	5.3 Advice for firefighters		
Extreme pressure oil			1.5	1) As in any fire, wear self-contained bre	eathing apparatus (MSHA/N	JIOSH approved or
				equivalent) and ull protective gear.		
Antioxidants			3.5	Fight fire from a safe distance, with a	demate cover	
Antioxidants						
	s			3) Prevent fire extinguishing water from		r or the ground water
4、 First aid measure				 Prevent fire extinguishing water from system. 		r or the ground water
 4. First aid measure 4.1 Description of first 	aid measures	attention is recu	200	3) Prevent fire extinguishing water from		r or the ground water
4. First aid measure 4.1 Description of firs General advice :]	aid measures	attention is requ	ired. Show this safety data sheet (SDS) to	 Prevent fire extinguishing water from system. 	contaminating surface water	
4. First aid measure 4.1 Description of firs General advice - I the doctor in attendance.	aid measures		200	 3) Prevent fire extinguishing water from system. 6 · Accidental release measures 	contaminating surface water	
4. First aid measure 4.1 Description of firs General advice - I the doctor in attendance. Skin contact - Dur	aid measures mmediate medical	e off contaminat	ired. Show this safety data sheet (SDS) to	3) Prevent fire extinguishing water from system. 6 • Accidental release measures 6.1 Personal precautions, protective equipn 1) Avoid breathing vapors and contactri 2) Bevare of vapours accumulating to fa	contaminating surface water ment and emergency proce g with skin and eye. form explosive concentration	dures
4. First aid measure 4.1 Description of firs General advice - I the doctor in attendance. Skin contact : Dur off with plenty of water Eye contact: Rins	aid measures mmediate medical ing production, tak for at least 15 minu e thoroughly with	e off contaminat tes and consult a	red. Show this safety data sheet (SDS) to ed clothing and shoes immediately. Wash	3) Prevent fire extinguishing water from system. 6 • Accidental release measures 6.1 Personal precautions, protective equipn 1) Avoid breathing vapors and contactin 2) Beware of vapours accumulating to for 3) Vayours can accumulate in low arease	contaminating surface water nent and emergency proce g with skin and eye. form explosive concentration s.	dures 15.
4. First aid measure 4.1 Description of firs General advice : I the doctor in attendance. Skin contact : Dur off with plenty of water Eye contact: Rins physician if fell uncomfi	aid measures mmediate medical ing production, tak for at least 15 minu e thoroughly with stable.	e off contaminat tes and consult a plenty of wate	red. Show this safety data sheet (SDS) to ed clothing and shoes immediately. Wash physician if fell uncomfortable. f for at least 15 minutes and consult a	3) Prevent fire extinguishing water from system. 6 · Accidental release measures 6.1 Personal precautions, protective equipm 1) Avoid breathing vapors and contactin 2) Bevare of vapours accumulating to for 3) Vapours can accumulate in low areas 4) Emergency personnel wear positive p	contaminating surface water ment and emergency proce Ig with skin and eye. form explosive concentration s.	dures 15.
4. First aid measure 4.1 Description of firs General advice : I the doctor in attendance. Skin contact : Dur off with plenty of water Eye contact: Rins physician if fell uncomfi Inhalation:Under	aid measures mmediate medical ing production, tak for at least 15 minu e thoroughly with wrable. normal use condi	e off contaminat tes and consult a plenty of wate tions, no adve	red. Show this safety data sheet (SDS) to ed clothing and shoes immediately. Wash physician if fell uncomfortable. For at least 15 minutes and consult a se effects will occur. If contact with	3) Prevent fire extinguishing water from system. 6 • Accidental release measures 6.1 Personal precautions, protective equipn 1) Avoid breathing vapors and contactin 2) Beware of vapours accumulating to fi 3) Vapours can accumulate in low areas 4) Emergency personnel wear positive protective and anti-static clothing. Wear chemis	contaminating surface wates nent and emergency proce ig with skin and eye. Torm explosive concentration s. pressure self-contained breat cal impermeable gloves.	dures 15.
4. First aid measure 4.1 Description of firs General advice - I the doctor in attendance. Skin contact : Dur off with Jenty of water Eye contact: Rins physician if fell uncomf Inhalation: Under decomposition products	aid measures mmediate medical : ing production, tak for at least 15 minu e thoroughly with stable. normal use condi irritation occurs.N	e off contaminat tes and consult a plenty of wate tions, no adve- fove victim into	red. Show this safety data sheet (SDS) to ed clothing and shoes immediately. Wash physician if fell unconflortable. r for at least 15 minutes and consult a se effects will occur. If contact with fresh air. If breathing is difficult, give	 3) Prevent fire extinguishing water from system. 6 • Accidental release measures 6.1 Personal precautions, protective equipn Avoid breathing vapors and contacting Beware of vapours accumulating to fo 3) Vapours can accumulate in low areas Flemzgency personnel wear positive p protective and anti-atic clothing. Wear chemic I arms adequate venitation. Remove 	contaminating surface water ment and emergency proce- ing with skin and eye. form explosive concentration s- ressure self-contained breat cal impermeable gloves. all sources of ignition.	dures 15. hing apparatus. Wear
4. First aid measure 4.1 Description of firs General advice 1 the doctor in attendance. Skin contact : Dur off with plenty of water Eye contact: Rins physician if fell uncomf Inhalation:Under decomposition products oxygen. Do not use moto	aid measures mmediate medical a ing production, tak for at least 15 minu e thoroughly with wtable. normal use condi irritation occurs. th to mouth resusc	e off contaminat tes and consult a plenty of wate tions, no adve dove victim into itation if victim	red. Show this safety data sheet (SDS) to ed clothing and shoes immediately. Wash physician if ellu uncontrottable. r for at least 15 minutes and consult a se effects will occur. If contact with fresh air. If breathing is difficult, give ingested or inhuled the substance. If not	3) Prevent fire extinguishing water from system. 6 • Accidental release measures 6.1 Personal precautions, protective equipn 1) Avoid breathing vapors and contactin 2) Beware of vapours accumulating to for 3) Vapours can accumulate in low areas 4) Emergency personnel wear positive p protective and anti-static clothing. Wear chemit 1) Ensure adequate ventilation. Remove 2) Evacuate personnel to safe areas. Kee	contaminating surface water ment and emergency proce g with skin and eye. form explosive concentration s. corressure self-contained breat cal impermeable gloves. et all sources of ignition.	dures is. hing apparatus. Wear wind of spill/Jeak.
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Their realizing years	a Cut	ting Oil		SD	S NO.: T191123024A	Tillest Technology Co., Ltd.	Cutting Oil		SDS NO.: T1911230
1) Avoid	inhalation of vapors.					1 EN 14049 Was	kalace atmospheres. Guide	for the application of	nd use of procedures for th
	lynon-sparking tools						osure to chemical and biolog		nd use of procedures for us
	ent fire caused by ele		e steam, equipm	nent on all metal	parts should be				1.
grounded.		2					3BZ21 100.81-2004 Detem	ination of toxic substa	nces in workplace air (Serie
4) Useex	plosion proof equipn	nent.				standard).			
5) Handl	ing is performed in a	well ventilated play	ice.			8.2 Engineering co		the second second	
	itable protective equi						te ventilation, especially in		1.1.1.1.1.1.1
	contact with skin and						ewash stations and safety sh proof electrical/ventilating/		workstation location.
	away from heat/spark						v exit and necessary risk-el		
	precautionary measur	es against static dis	scharges.				tection equipment	initia don area.	
7.2Precautions						General requireme			
	in a cool, ventilated w temperature should n		vov from fire o	nd haat couroac		in the state of th			
	he container sealed.	or enceed 37 °C, av	way nom me a	nu near sources.					
	d be stored separately	from oxidants red	ducing agents 1	alogens etc. Av	oid mixing		()) (())		
	xplosion-proof lightir			Bonny ore. 71					
	orbidden to use mecha			sily produce spa	rks.				
	rage area should be e								
suitable containr						Eye protection = T	ghtly fitting safety goggles	(approved by EN 166(E	EU) or NIOSH (US).
						N	Wear protective gloves (su	ch as butyl rubber), pas	ssing the tests according toEN
S Exposure -						Hand protection .			
	ontrols/personal p	rotection				374(EU),US F739 o	AS/NZS 2161.1 standard.		
8.1 Control Pa	rameters					374(EU),US F739 o		exceeded or if irritation	n or other symptoms are
8.1 Control Pa						374(EU),US F739 or Respiratory protect	AS/NZS 2161.1 standard. ion : If exposure limits are		n or other symptoms are on (US) or type AXBEK (EN
8.1 Control Pa 8.1.1 Occupati	rameters onal exposure limits					374(EU),US F739 or Respiratory protect	AS/NZS 2161.1 standard. ion : If exposure limits are iill- face respirator with m		
8.1 Control Pa 8.1.1 Occupati	rameters					374(EU),US F739 or Respiratory protect experienced, use a f 14387) respirator car	AS/NZS 2161.1 standard. ion : If exposure limits are iill- face respirator with m	ilti-purpose combinatio	on (US) or type AXBEK (EN
8.1 Control Pa 8.1.1 Occupati Occupational I	rameters onal exposure limits Exposure limit value	rs	T-late-	Timber	Charles	374(EU),US F739 or Respiratory protec experienced, use a 14387) respirator ca Skin and body prot Other protection: Sh	AS/NZS 2161.1 standard. ion : If exposure limits are iull-face respirator with mu- tridges. ection : Wear fire/flame res-	ilti-purpose combinatio	on (US) or type AXBEK (EN
8.1 Control Pa 8.1.1 Occupati	rameters onal exposure limits Exposure limit value	s			- Short term	374(EU),US F739 or Respiratory protec experienced, use a 1 14387) respirator ca Skin and body prot	AS/NZS 2161.1 standard. ion : If exposure limits are iull-face respirator with mu- tridges. ection : Wear fire/flame res-	ilti-purpose combinatio	on (US) or type AXBEK (EN ng and antistatic boots.
8.1 Control Pa 8.1.1 Occupati Occupational I	rameters onal exposure limits Exposure limit value Country/Region	s Limit value - pp ^m	mg/m3	ppm	mg/m3	374(ED),US F730 v Respiratory protect experienced, use a 14387) respirator cat Skin and body prot Other protection: Sn habits.	AS/NZS 2161.1 standard. ion : If exposure limits are iull-face respirator with mu- tridges. ection : Wear fire/flame res-	ilti-purpose combinatio	on (US) or type AXBEK (EN ng and antistatic boots.
8.1 Control Pa 8.1.1 Occupati Occupational I	rameters onal exposure limits Exposure limit value Country/Region USA-OSHA	s Limit value - pp ^m Unspecified	mg/m3 Unspecified	ppm Unspecified	mg/m3 Unspecified	374(ED),US F730 or Respiratory protec experienced, use a 1 14387) respirator au Skin and body prot Other protection: Sn habits. 9 • Physical and c	AS/NZS 2161.1 standard. ion : If exposure limits are ill-face respirator with mu- tridges. ection : Wear fire/flame re: koking, eating and drinking	ilti-purpose combinatio	on (US) or type AXBEK (EN ng and antistatic boots.
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Octanol/w	ater pa	rtition o	oeffide	ntrNo	data						Component	Fish	Cn	istaceans	Algae
available available. !											All components			ta available.	No data available.
available. ' Others: No	Viscosi o data a	ty: No d vailable.	ata ava			u.					12.2 Chronic aquat	ic toxicity			
10. Stabi											Component	Fish		ustaceans	Algae
						can cause dec ditions of use			chemica	l reactions.	All components	No data av	ailable. No da	ta available.	No data available.
Possibility Conditions	ofhaza s to ave	rdous r id: Inco	eaction mpatib	is: No d le mater	lata ava rials, sta		, heat, humi				12.3 Others				
Hazardous							Jases.				Component	Persistence and	Bioaccumulation	Soil mobility	
11. Toxic		-										degradability	or bioaccumulation		Evaluation of PBT andvPvB results
11.1 Acut	e tovici	ity									All commencents	No data	No data	No data	No data
in au	e ioaici										All components	available.	available.	available.	available.
	Compo all comp					ARC Listed			NTP t Listed		Disposal considerat 14、 Transportati		Disposal" section.		
11.3 Other	rs										United Nations Dan		nber (UN No.): The	product is not d	angerous.
	Corro	Serio	Skin	Resp	Repr	Specific	Specific	Aspi	Germ	Repro	UN proper shipping UN Risk Classificat				
	sive	us eye	sensi	irator	oduc	target	target	ratio	cell	ducti	Packing Category:				
		dama ge/irri	tizati on	y sensi	tive toxic	organ toxicity -	organ toxicity -	n haza	mutag enicit	ve toxici	Packaging label: No Pollutants (Yes/No)				
		tation	1000	tizati	ity	single	repeated	rd	y	ty	Packing method: Pa	ck according to the			example: open drum
				on		exposure	exposure				Ampoule bottle outsi bottles or metal drun				ds, glass bottles, plasti
All	No	No	No	No	No	No data	No data	No	No	No					alkalis, oxidants, food
4		data	data	data	data	available.	available.	data	data	data					st be equipped with
		availa ble.	avail able.	avail able.	avail able.			avail able.	availa ble.	availa ble.					ols that generate spark tank (tank) used for
12. Ecolo	ogicali	nforms	tion.		-						transportation shall h	ave a grounding cha	ain, and a hole partit		ed in the tank to reduc
		atic tox									the static electricity g It is strictly prohibite			ids, foods and foo	d additives. It is
12.1 Acu															

	yCa, itd.		Cutting (211			SDS NO.: 1	F191123024A	9	Tifest Technology Co., Ltd.	Cutting Oi		SDSNO.: T191123024
and high ter	nperature d	uring trans	portation. T	ransportatio	n vehicles :	shall be equ	ipped with	osure, rain • fire fighting		[7] U.S. Departmen[8] Germany GEST	t of Transportation: ERG IS-database on hazard s	3, website: http://www.p substance, website: http:	ohmsa.dot.gov/hazmat/library/erg. //gestis-en.itmst.de/.
								ities. Before tion means 1		16.2 Others:			
hazard sign	is and anno							ansportation		1)Abbreviations an CAS -Chemical Abs		DO OTEL OL-	t term exposure limit RPE -
requirement	ts.									DNEL - Derived No	Effect Level	Respiratory Prot	tective Equipment NOEC
15 • Regu Internation			y							LC50 - Lethal Conce PBT - Persistent, Bio IMDG-International		Bioconcentratio	ffect Concentration BCF - n factor (BCF) UN-The
			5 							NFPA-National Fire	Protection Association		
Compon e	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS			mutagens or substance ighted AveragelARC -	International Agency fo	
mineral	Listed	Listed	Listed			Listed				PNEC -Predicted No EC50 - Effective Co	Effect Concentration	LD50 - Lethal D	Dose 50%
oil	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed		POW - Partition coe	ficient Octanol:Water		sistent, very Bioaccumulative
Extreme													l Air Transportation Association sts OECD-Organization for
pressure	N. A	N. A	N. A	N.A	N. A	N. A	N. A.	N. A		Economic Co-operat	ion and Development		
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a	N. A	N. A	N. A	N.A	N. A	N.A.	N. A	N. A					3HS (the 7th revised edition). The e and provided by the enterprise.
est.													We try to ensure the correctness of
TEINEC	S1 Europe	an Inventor	v of Existin	©Commerci	alChemical	Substances				all information. How	vever, due to the dive	rsity of information so	surces and the limitations of our
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(TSCA) (DSL) (IECSC	United St Canadian D	atesToxicS omestic Su entory of E	Substances (abstances L ExistingChe	ControlAct ist mical Subs	inventory	Substances	5			all information. How knowledge, this doct of suitability of this i damage or expense a	vever, due to the dive ment is only for user's nformation for their par rising out of or in any w	rsity of information so reference. Users should ticular purposes. We do	surces and the limitations of our make their independent judgment not assume responsibility for loss,
tTSCA) tDSL1 tIECSC tNZIoC	United St Canadian D ChinaInv NewZeal	atesToxicS Domestic St entory of E and Invent	Substances (abstances L ExistingChe ory ofChen	ControlAct ist mical Subst nicals	inventory ances		8			all information. How knowledge, this doct of suitability of this i damage or expense a	vever, due to the dive ment is only for user's nformation for their par rising out of or in any w	rsity of information so reference. Users should ticular purposes. We do ay connected with the ha	surces and the limitations of our make their independent judgment not assume responsibility for loss,
tTSCAI tDSL1 tIECSC tNZIoC tPICCS	United St Canadian D ChinaInv NewZeal Philippin	atesToxicS Domestic St entory of E and Invent	Substances (abstances L ExistingChe ory ofChen	ControlAct ist mical Subs	inventory ances		3			all information. How knowledge, this doct of suitability of this i damage or expense a	vever, due to the dive ment is only for user's nformation for their par rising out of or in any w	rsity of information so reference. Users should ticular purposes. We do ay connected with the ha	surces and the limitations of our make their independent judgment not assume responsibility for loss,
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tTSCAI tDSL1 tIECSC tNZIOC tPICCS 16. Other 16.1 Refe [1] http://www [2] IARC, [3] OECD	United St Canadian D ChinaInv NewZeal NewZeal Philippin ers rence : IPC: ilo.org/dyn website: ht st The Gl	atesToxicS omestic St entory of E and Invent es Inventor S:The Inte //icsc/show ttp://www.i	substances (ibstances L ExistingChe ory ofChemio y ofChemio ernational eard.home. are.fr/. at to In	ControlAct ist mical Subst nicals calsand Che Chemical formation	inventory ances mical Subsi Safety on Chemi	lances Cards (ical Substa	ICSC) ,	website: website:		all information. Ho knowledge, this doce of auitability of this i damage or expense a the product.	vever, due to the dive ment is only for user's nformation for their par rising out of or in any w	rsity of information so reference. Users should include purposes. We do a ya connected with the he orgraph of sample	surces and the limitations of our make their independent judgment not assume responsibility for loss,
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tTSCAJ tDSL1 tIECSC tNZIOC tPICCS 16, Othe 16, Refe [1] http://www [2] IARC, 3] OECD http://www [4] CAME [5] NLM:C	United St Canadian D ChinaInv NewZeal	atesToxieS connectic St entory of F and Inventor es Inventor S:The Inte /icsc/showt /icsc/	substances (ibstances L ExistingChe ory ofChemiony y ofChemional eard.home, arc.fr/. tal to In mportal/ind :: http://can http://can	ControlAct ist mical Subst nicals calsand Che Chemical formation ex?pageID- reochemical sis nlm.nit	inventory ances mical Subst Safety on Chemi 0&request, s.noa.gov, .gov/chemi	lances Cards (jocale=en. search/simp dophus/chem	ICSC) , ances , sle. idlite jsp.			all information. How knowledge, this deco of suitability of this is damage or expense at the product. SDS Creation Date: :	everer, due to the dive ment is only for user's aformation for their par fising out of or in any w Phote	risty of information should include purposes. We do any a connected with the her orgraph of sample	urces and the limitations of our make their independent judgment not assume responsibility for loss, andling, storage, use or disposal of
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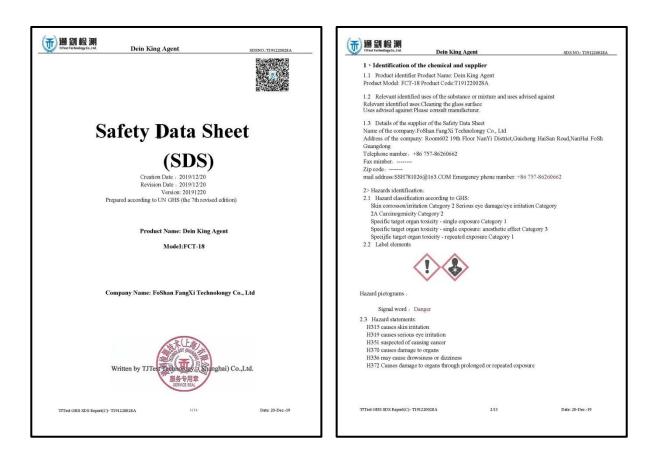
	Material-Safety Data Sheet		Bevare Language	: Danger.		
	Material Safety Data Sheet			on : Flammable expensiv	Post A state	
Chemital Product and Con			HIRALIGOGS INFORMATI	Harmful when swal		
	: CENOFLEX 2621		112012-112010-01		r of the harmfulness (
	CENULDER 2021		the second second second second	harmful when inhal		iermal).
Company Identification Company Name	: Kokonos Electric Co., Ltd. (Isehara Fact	54(#)B053636105 943		Skin pungency.	e is Gieano.	
	16 Suzukawa. Isehara shi, Kanagawa k			Strong eyes pungen		
	ge : Chemical Product Department (Perso		and the second second second second	Doubt of the cancer		
L'opar smons In Onar	Rvouichi Hirokawa)	n m one Bet	14.32.6.0.00		r of the bad influence.	
The And For No.	: Tel. 0463-94-5231 ; Fax. 0463-96-5772		and the second sec		liver , the central ner	vous system
	act in Emergency : Chemical-Product Dep			the obstacle of the li		. one of otom,
	Department : 0468-94-5231			Sleepiness and fear	of the dizziness.	
Feference Number					us system by the repe	tition revelation.
Effective Date	: August 18, 2003		CHLARD III		the central nervous sy	
Fevision Date	: February 15, 2010		PLACE PROVE STREET	of the organ of heari	ng.	
Summury Hazardous			1244 1 24410	When swallow it, an	d invade the respirato	ry tract , is fear
[GHS classification]				of the danger for life		
Physical and Chemical ris	ks :Flammable liquids.	Division 2			y long-term influence.	
Haz ardous to health	: Acute toxicity (oral)	Division 4	Note	: Do not handle it till r	ead and understand a	ll security or
	Acute toxicity(dermal)	Division 5		Attention.		
	Acute toxicity(inhalation , dust)	Division 4	1208.01-1 (Tanjan	When use this produc	t, do not do eating an	l drinking
	Corrosive irritant skin	Division 2		or smoking.		
	Severe eye irritation and damage		A STATE AND A STATE	Because it is a flamm	able liquid, keep it a	way from the
	to the eye	Division 2A		firing source.		
	Carcinogenicity	Division 2		Use an electric appar a ventilating device, il	atus of explosion proo	f type ,
	Reproduction is toxic	Division 1B	and the second sec	Prevent an electrosta	luminate machinery.	
	Specific target organ systemic		the second second	by the spark.	tic electric discharge s	nd ignition
	Toxicity (single exposure)	Division 1	Standing Street and Street and Street	Wear protection glass	on material -laws	
	(Respiratory, Central nervous sy			clothes.	es, protection gloves,	protection
		Division 3	AND THE PARTY OF A PARTY	With a tool for protect	ion and ventilating de	nine fra
	(Anesthesia, Respiratory tract p	ungency)	2002	Individuals , avoid rev	relation	vice for
	Specific target organ systemic toxicity (repeated exposure)	Division 1		Do not absorb mist, ste		
(P	toxicity (repeated exposure) iratory , Nervous system ,An organ of hear		1-0	Handle it , and wash w		
(respi	Respiratory aspiration hazard	Division 1		Avoid release to the en		
Environmental hazard	: Acute toxicity aquatic environment	Division 1	3.Composition and inform	ation on Ingredients		
	Chronic aquatic environmental hazards	Division 2	Distinction between a S	ingle-Ingredient Materia	or Mixture : Mixt	ure
View Pictures of symbols		Division 2				
11.00		A	An intredient name	Content (wt%)	ISHL Law	CAS No.
	AAA		Acryli: acid resin	20	No exhibition	No exhibition
			Keton; resin			and the second second
	V V V	A CONTRACTOR	Calcium carbonate	45	1-122	471-84-1
			Avenue, and dependence of the	9		(21)

Mixture of xylene	10	1 00									
Mixture of xylene Isomar	10	3-3	1330-20-7		6 Accidental release me		he person conce	stneg.			
Ethylbenzene	5	3-28	100.00.0	15 dece	Personal precaution		Surny of mator	sticks in the se	en of the -	vork and wear a	
Butanol	10		100-41-4	Control of	I ersonar procaution					inhale steam an	
Mixture of hydrocarbons	10	2-3049	71-36-3	100.000			work from win		115 1100 00 1	munite speam an	a
(TR/3S 404/2)	10	Inapplicable	64742-82-1		Environmental prec	autions : (h lesked d	lose not flow int	0
(11035 404/2)	-				And a summer pro-			r and river the			0
First aid					How to collection an						it
Inhalution	more a tristim aven	aptly in the place of fresh	-					er by the meth			
adventer of the		s when breathing stop ar			Secor dary disaster]	prevention :	Evacuate a per	son of the lee.			
		after loosen clothing, and					Remove a thin	g becoming the	nearby fin	ring source	
		piratory tract . cover the l					immediately.				
	and keep it warm a		wwy want Distilaters	5 mm 6		Cont where	Set up a rope a	round the place	e that leal	ked and do it an	d
		for the doctor immediate!	K.					rance except th			
In case of contact with the		wash it off after having			7 .Precaution for handling						
Skin		lluted clothing , shoes and			[Attention in the handli						
		r the water of the right to		1.1	Handling : Refer to						
		flammation , receive tres		200	Technical measures						
Eye		t for the ophthalmologist		1.000				for protection w	hen there	is the fear	
		rge quantity of water pro				of contact · a					
Ingestion		creases when let spit it o		1 34				n the neighborh	acod of gro	owing thing	
		t for the doctor immediat		1000			erature ignition	a source.			
		it in a mouth with wate			(Attention in the sa						
	A mouth give a v	ictim without consciousn	ess anything.		Incompatible materials						
.Fire-Fighting					Storage conditions			strict prohibition			
Appropriate extinguishin			am agents ,					nperature, moisti			
	sprinkling, water			1000				nd dark space o	f the venti	ilation not	
Extinguishing agent used				245			ct rays of the s		and the second		
Specific hazards	: It occurs in a	large quantity of black s	moke at time		8 Exposure and Persons		p it in the place	same as a oxio	dizer.		
	when burnt.				8 Exposure and Persons Management concen						
		reat that it occurs with p			towna Remaint concep		thylbenzene	1	-		
		osive gas depending on a				-	thylbenzene		configure	a	
		danger of the ignition exp	losion depending			-			ppm		
H	on a density		0510.28			X	ylene	50	ppm		
How specific fire		tion source to the origin o	f a fire and extinguish		Allowable concentra	tion 1					
		extinguishing .			THOW HOLE COLOSITI'S			D.t.		10000	
Protection of the fire		boring facilities and cool						Defense In Association J	ndustrial	ACGIH TLV	TWA
a research of the life		spirator , protective cloth		1.68		T	thylbenzene	50ppm 21		100	
		extinguishing as much as rd and avoid the inhalati					utanol	50ppm 21		100 p p m	_
	steam / the fl		on of			-	ylene	50ppm 10		20 p p m	
		ue gas. and prohibit an entrance	amount management			4	A serie	loohhm 21.	mgin	100 p p m	-
	one als tobes t	and promote an outrance								1	100
		3		10.13			4	- Catter S	~	-	E
			1 C RESURE					6		151	1

Engineering meas	ires : Use a device	machinery seal	ed up as much a	s possible		101101-00000001	for 24 hours)			
tenginteeng men	or a local exh		ou up no mann m	- possible		Garing Jam	ige to the eye : There is it			
			or emergency and	hody masher u		Seri nis dama				
	near a handl		a outerBenel un	a body waaner u	BC					rith (showed did it or
(Protective)										, being damaged in
Rest iratory protec	tive : Use a mask f	or organic gas . s	supply of air mi	ask . air respira	OFV					conjunctiva)
		ding on the situ				Sensitizer				kin sensitization
Eye protection	: Use protecti	on glasses(goggle	. (20		- 1.1	Respiratory				description of the
Skin and body pro	ective : Use a thin	suitable for the	work from chem	nical protection		Gerin cell mu				elated test result.
	gloves, bo	ots of oiliness re:	sistant(impervior	usness),an aport	n.	Caninogen	: IARC group			ariation Ames test.
9 .Physical and Chemi						Carrinogen		(animal care		r berson)
	Black Volatility liqu					Reproductive				he urinary organ)
	Characteristic sme					amprovinciare				for usage that did not
	are=1) : Heavier	than air.				and the second				yonic stem cell test
Solubility	Insoluble in water.							ise and a rat.		, the test
	Ethylbenzene		m-Xylene	p-Xylene	Butanol	Specific targe	t organ systemic toxicity	Sector Contraction		
Melting point	-95 °C	-25 ℃	-48 °C	-13 °C	-90 %	Single expose	re : The influence	e on central r	nervous syste	am for the laboratory
Boiling point	136℃	144°C	139 ℃	138°C	117 ℃		animal is se	en in a range	of the guida	nce value equivalent
lash point	18℃	32°C	27 °C	27 ℃	29 ℃	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	to division 2	, and the res	piratory trac	t pungency is seen
uto ignitica temperature		463℃	527 °C	527°C	345 °C		again.			
Explosive range upper li		6.7%	7.0%	7.0%	11.3%	Repeated exp				
Vol %) Bottom	1.0%	0.9%	1.1%	1.1%	1.4%	Respiratory a	spiration hazard : (Ther			
apor pressure	0.9kPa (20°C)	0.7kPa (20°C)	0.8kPa (20°C)	0.9kPa (20°C)	0.5kPa(20°C)				aspiration w	hen swallow this liquid
vaporation rate(are=1)	3. 7	3.66	3.66	3.66	2.6		certa	uin.		
10.Stability and reactiv Stability						[Xylens]				
		stable in handlin				Acute toxicity				-
		with the warmin	g , high temperat	ture, oxidation	related		Oral Dermal	Rat	LD to	3,500 mg/Kg
Conditions to Avoid								Rabbit	LD m	>4.350 mg
Conditions to Avoid	materia	L								
Conditions to Avoid	materia rials : Oxidizer	l. , strong alkali ,					Inhalation(Steam)	Rat	LD =	29.08mg/L/4H
Conditions to Avoid	materia cials : Oxidizer ous reaction : React	l. , strong alkali , ; with an oxidize	r by conditions s			0	Inhalation(Steam)	Rat		29.08mg/L/4H
Conditions to Avoid Incompatible mate Potentially hazard	materia cials : Oxidizer ous reaction : React inter	l. , strong alkali , with an oxidize sely and bring t	r by conditions s he danger of a fin	re and the explo		Corrysive irri	Inhalation(Steam) tant skin : There is a resu	Rat lt of middle-c	lass pungene	29.08mg/L/4H
Conditions to Avoid Incompatible mate	materia cials : Oxidizer ous reaction : React inter osition : It occurs	l. , strong alkali , with an oxidize sely and bring t with a poisonou	r by conditions s he danger of a fin is gas (carbon mo	re and the explo			Inhalation(Steam) ant skin : There is a resu examination	Rat lt of middle-c	lass pungene	29.08mg/L/4H
Conditions to Avoid Incompatible mate Potentially hazard	materia cials : Oxidizer ous reaction : React inter sition : It occurs dioxide)	l. , strong alkali , with an oxidize sely and bring t	r by conditions s he danger of a fin is gas (carbon mo	re and the explo			Inhalation(Steam) tant skin : There is a resu examination ge to the eye : There is a	Rat It of middle c that used a ra result of midd	lass pungent bbit for. le-class pung	29.08mg/L/4H
Conditions to Avoid Incorspatible mate Potentially hazard Hazardous decomp	materia cials : Oxidizer ous reaction : React inter sition : It occurs dioxide)	l. , strong alkali , with an oxidize sely and bring t with a poisonou	r by conditions s he danger of a fin is gas (carbon mo	re and the explo		Sericus dama	Inhalstion(Steam) tant skin : There is a resu examination ge to the eye : There is a examinati	Rat It of middle c that used a ra result of midd on that used a	lass pungent bbit for. le-class pung	29.08mg/L/4H
Conditions to Avoid Incompatible mate Potentially hazard Hazardous decomp 11.Toxicological Inform	materia cials : Oxidizer ous reaction : React inter sition : It occurs dioxide)	l. , strong alkali , with an oxidize sely and bring t with a poisonou	r by conditions s he danger of a fin is gas (carbon mo	re and the explo		Sericus dama Sensitizer (Ros	Inhalation(Steam) ant skin : There is a resu examination ge to the eye : There is a examineti piratory , skin) : No dat	Rat It of middle c that used a ra result of midd on that used s	lass pungens bbit for. le-class puns a rabbit for.	29.08mg/L/4H cy by the skin pungency gency by the skin punge
Conditions to Avoid Incorspatible mate Potentially hazard Hazardous decomp 11.Toxicological Inform (EY hylbenzene) Acute toxicity :	materia cials : Oxidizer ous reaction : React inter sition : It occurs dioxide)	l. , strong alkali , ; with an oxidize sely and bring t with a poisonou by the heating r	r by conditions so he danger of a fin is gas (carbon mo esolution.	re and the explo moxide , carbon		Sericus dama Sensitizer (Ros	Inhalation(Steam) ant skin : There is a resu examination ge to the eye : There is a examinati pixatory , skin) : No dat agenesis : Negative in	Rat It of middle c that used a ra- result of midd on that used s i. person admin	lass pungens bbit for. le-class pung a rabbit for. istration chs	29.08mg/L/4H cy by the skin pungency gency by the skin pung arges immunology
Conditions to Avoir Incompatible mate Potentially hazard Hazardous decomp 11.Toxicological Inform (Eft bylbenzens) Acute toxicity :	materia cials : Oxidizer pus reaction : React inter sition : It occurs dioxide) tion	l. , strong alkali , with an oxidiza saly and bring t with a poisonou by the heating r Rat	r by conditions so he danger of a fin is gas (carbon mo esolution. LD :: 3,50	re and the explo onoxide , carbon 00 mg/Kg		Sericus dama Sensitizer (Ros	Inhalation(Steam) ant skin : There is a resu examination ge to the eye : There is a examinatis piratory , skin) : No dat agenesis : Negative in Negative by	Rat It of middle or that used a ra result of midd on that used s to person admin a somatic cel	lass pungens bbit for. le-class pung a rabbit for. istration chs 1 In VIVO va	29.08mg/L/4H cy by the skin pungency gency by the skin pung arges immunology aristion Ames test
Conditions to Avoir Incompatible mate Potentially hazard Hazardous decomp 11.Toxicological Inform (Ethylbenzene) Acute toxicity :	materia cials : Oxidizer vus reaction : React inter bition : It occurs dioxide) ttion Oral	I. , strong alkali , with an oxidize sely and bring t with a poisonou by the heating r Rat Rabit	r by conditions s he danger of a fin is gas (carbon mo esolution. LD := 3,6 LD = 15,4	re and the explo onoxide , carbon 00 mg/Kg 00 mg/Kg	sion.	Sericus dama Sensitizer (Ros	Inhalation(Steam) ant akin : There is a resev examination : ge to the eye : There is a : examinati piratory , akin) : No data agenesis : Negative in Negative in Megative in Segative in	Rat It of middle or that used a ra- result of midd on that used a to person admin a somatic cel us test • chr	lass pungens bbit for. le-class pung a rabbit for. istration chs il In VIVO va omosome exa	29.08mg/L/4H cy by the skin pungency gency by the skin pungency arges immunology arriation Ames test amination).
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Sintle exposur	re : There are d	lescriptions s	uch as the (pungency of the throat,			Regarde	d as the target	internal organs b	by a description	
				lus bleeding and lungs			that a he	aring loss was	s accepted in the c	occupation revelati	on
				the swelling of the live			example	of the person			
	and the van	cuolation of th	he hepatocyt	te of the hepatic lobule		Rest iratory aspi	ration hazard : E				
	dot hemorr	hage and swe	elling and th	e damage of the nerve					tom which is not h		
				lissl body corpuscie,					alcohol and the	Ketone which do n	ot
		limbs) about				12.Ecolorical	g	0 over 13.			
Rep sated expo				ungency of eyes , and		[Ethylbenzene]					
				chronic headache ,		Habits toxicity :					
			thing, a phy	sical disability and a m	cental disorder)		Brine shrimp	LCa	96 hours	0.4 mg/L	7
Requiratory	about the p piration bazard : (The					Residual propert	y · Resolvability		ad nours	0.4 mg/L	
reolution a				when swallow this liqu		 Bioaccumulation			alation characteri	stics are low	
		ain.	II adjutation	when swellow rule lide	iid)					efficient log Kow=	15)
[Eutanol]						Mobile among th	lios o	: No data			
Acute toxicity	1					[Xylene]					
	Oral	Rat	LDso	790g/Kg		Habi:s toxicity :		_			
	Dermal	Rabbet	LDo	3,402mg/Kg			Rainbow trout	LCso	96 hours	3.3 mg/L	
	Inhalation(Steam)	Rat	LDu	24ppm(mg/L)		Residual property Bioaccumulation	· Resolvability				
	Inhalation(mist)	Rat	LDw	8,000ppm(mg/L)	The second s	 Dioaccumulation	CDATACOPTISTICS		lation characteris	stics are low. efficient log Kow=3	
Corrosive irrite	ant skin : There are a de					Mobile among the	soil	: No data			
				forward a day of all and		(Butanol)					
				for and a description the	hat	(Butanol) Habits toxicity :					
Sericus damag	cutitis was a	ccepted in occ	cupation rev	velation example.	hat	Habits toxicity :	Oryzias latipes	LCto	96 hours	100ppm	1
Sericus damag	cutitis was a to the eye : There is de	ccepted in occ escription that	cupation rev at the eyes p	velation example.	hat	Habits toxicity : Residual property	· Resolvability	: There is not	rapid resolvabilit	ty.]
	cutitis was a to the eye : There is d Inflamms revelation	ccepted in occ escription the stion of the co a (steam revel	cupation rev at the eyes p ornea was ac lation) was a	velation example. oungency such as the coepted in occupation a person.	hat	Habits toxicity : Residual property Bioac sumulation	· Resolvability characteristics	: There is not : The accumu	96 hours rapid resolvabilit lation characteris	ty.]
	cutitis was a to the eye : There is d Inflamms revelation msitizer, Skin) : No re	eccepted in occ escription the ation of the co a (steam revel spiratory sen	cupation rev at the eyes p prnea was ac lation) was a usitivity date	velation example. oungency such as the coepted in occupation a person.	hat	Habits toxicity : Residual property Bioac sumulation Mobile among the	· Resolvability characteristics	: There is not	rapid resolvabilit	ty.]
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		1.1 State
Domistic regula		materials notification separate table. [Flammable liquid]
Regulatory Lan	d : When fall under firefighting method , the Occupational Safety	(Xylene, Ethylbenzene, Butanol)
	and Health Act, observe laws and ordinance and transment it	16.Other Information
Maritime Regul	latory : Observe Marine Safaty Act.	References cited : Safe hygiene information center GHS model MSDS.
Aviation Regula	story : Observe Aviation Act.	(a corporate judicial person) Japan Chemical Industry Association.
Other safety me	casures : When carry it by vehicles, check that there is not damage	(Germany) Product evaluation technology hase mechanism. A chemical
	· the leak of the container, such as a shock · a fall · the	Substance synthesis search system.
	fall do it so that there is not it.	(Germany) A chemical substance synthesis search system. A list of
	Load it not to win direct rays of the sun and perform	GHS classification object materials.
	prevention of collapse of cargo surely.	Nihon sangyo hygiene society. An advice of the permission density.
15.Regulatory		MSDS from raw materials maker
Occupational S	afety and Health Act : The ninth tow separate tables of 2 .	Mention contents Reference : The same as corporate information.
	enforcement order Article 18s of law Article 57	·····································
	The dangerous material which should notify of names and a	* Phase warn the evaluation of danger - the hazardous property enough to handle
	harmful thing J	It necause not always enough.
	(Xylene, Ethylbenzene, Butanol)	Muke the mention content based on document - information - data available at
	Enforcement order Article 18.	present, and there is a thing revised by new knowledge.
	The dangerous material which should notify of names and a	In addition, it is not a thing the mention contents are reporting, and to guarantee.
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	(Xylene, Butanol)	
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	Poisoning , the fourth Article 1 clause 1, The second class evistence	with the short of the state of the state of the short of the state of
	machine solvents.	The second se
	(Xylene, Butanol)	
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	[Dangerous materials · a flammable thing]	计算机 化化学 化化化学 化化化学 网络静脉脉冲
	(Xylene, Ethylbenzene, Butanol)	THE CALL SHOW FOR A DOMESTIC ALL MADE INC.
Labor Standards	Law : Law Article 75 clause 2, The enforcement regulations Article 35	- 5 G. (1996) 1999 A. (1997)
	separate table first two the fourth.	Manager Mille I. a. 11. Think Sheet 1. Thinkers half and the
	TAn illness chemical substance J	
DOM: N	(Xylene)	
PRTR Law	: Law Article 2 clause 2 , the first enforcement order Article 1	DEFINE A PARTICULAR PART PART A PORT DE LA
	separate table. [First-class designated chemicals]	
	(Xylens, Ethylbenzens)	A DAME THE DATE AND A DAME TO DESCRIPTION OF THE REPORT OF
Poison and dynam	ite Control Law : Appointment Law Article 2. [Dynamite]	and the second sec
Fire Lew.	(Xylena)	The state of the second s
Pare Liew.	: The second the fourth dangerous material oil.	
Marine D.B	(Xylene, Ethylbenzene, Butanol)	
Marine Pollution F	Prevention Act : Dangerous materials ship transport and storage rule	1 States
	Article 2, 3 the first dangerous materials notification	N
	separate table. [Flammable liquid kind]	
Aviation Act	(Xylene , Ethylbenzone , Butanol)	(PDF)
an an and a factor	: the first enforcement regulation Article 194 dangerous	
	a States	10



	triest Technology Ca., tid. Dein King Agent SDS NO.: T1912
2.4 Precautionary statements 2.4.1 Prevention	Specific target organ toxicity - single exposure Category 1 Specific target organ toxicity - repeated exposure Category 1
P201 Special instructions are given prior to use. P202 Do not move until you understand all safety precautions.	2.5.3 Environmental hazards Please refer to 12th chapter of SDS.
P260 Do not breathe dust/fume/gas/mist/vapour/spray. P261 Avoid breathing dust/fUme/gas/mist/vapour/spray.	3 Composition/information on ingredients
P264 Wash thoroughly after work. P270 Do not eat, drink or smoke when using this product.	Substance □ Prepation0 Composition:
P272 Contaminated work clothes should not be taken out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection	Coimpolielit CAS No. EC No. Concentration (weight percent, %
2.4.2 Response	formic acid 64-18-6 200-579-1 15
P312 Call a POISON CENTER/doctor if you feel unwell.	Surfactant * 5
P314 If you feel unwell, you need to seek medical attention/attention.	
P302+P352 IF ON SKIN: Wash thoroughly with water.	Dichloromethane 75-09-2 200-838-9 80
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	4 First aid measures
P308+P311 If contacted: Call a poisoning emergency center/doctor.	4.1 Description of first aid measures
P308+P313 IF exposed or concerned: Get medical advice/attention.	4.1 Description of first and measures General advice: Immediate medical attention is required. Show this safety data sheet (SDS)
P332+P313 If skin irritation occurs: Get medical advice/attention.	the doctor in attendance.
P337+P313 If eye irritation persists: Get medical advice/attention.	Skin contact: During production , take off contaminated clothing and shoes immediately. Wa
P362+P364 Take off all contaminated clothing and wash it before reuse.	off with plenty of water for at least 15 minutes and consult a physician if fell uncomfortable.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. If you wear	Eve contact : Rinse thoroughly with plenty of water for at least 15 minutes and consul
contact lenses and can easily remove them, remove the contact lenses. Continue to rinse	
contact lenses and can easily remove them, remove the contact lenses. Continue to rinse 2.4.3 Storage	physician if fell uncomfortable.
2.4.3 Storage	physician if fell uncomfortable. In nhalation:Under normal use conditions, no adverse effects will occur. If contact w
2.4.3 Storage P405 The storage area must be locked.	physician if fell uncomfortable. R nhaladion/Under normal use conditions, no adverse effects will occur. If contact w decomposition products, imitation occurs. Move victim into fresh air. If breathing is difficult, g
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	SDSNO.: T191220028A	Tiftest Technology Co., Ltr	Dei	n King Agent		SDS N	O.: T191220028A
extinguishing.		7.1 Precautions	for handling :				
2) Unsuitable extinguishing media: Do not use a solid water stream as it m	ay scatter or spread	1) Closed on an	tion, local exhaust				
fire.			ist be specially traine	d to obsistly shids	but the execution		
5.2 Specific hazards arising from the substance or mixture			ended that operator				enfatu alase
1) Containers exposed to fire may leak contents through the pressure relief valve,	thereby increasing the		rating work clothes,			isks), enemical	sarety glass
concentration of fire and/or vapor.			om fire, heat, and sn				
The vapor may move to the source of ignition and flash back.			n-proof ventilation sy				
Toxic fumes may be released during combustion.			r from leaking into th				
 The container may explode when heated. 		7) Avoid contac	t with alkali metals				
 Containers exposed to fire may leak contents through a pressure relief valve. 		8) Lightly load	and unload during ha	ndling to prevent	damage to package	ging and contain	ners
Exposure to heat or exposure to flame may cause swelling or explosive decondent in the second state of /li>	iposition 53	9) Equipped wi	th the correspondin	g variety and qu	antity of fire-fig	shting equipme	nt and leaka
Advice for firefighters 1) Firefighters must wear an air respirator, wear a full-body fire-fighting anti-vir	as mit and autinomich	emergency treatm					
 Firefighters must wear an air respirator, wear a full-body fire-fighting anti-vir the fire in the upwind direction. 	us sun, and extinguisti		ainers may be harmfu	l residues			
 Spray the water to cool the container and, if possible, move the container from 	om the fire to the open	7.2Precautions for					
spray the water to cool the container and, it possible, move the container in space.	sin the fire to the open		d, ventilated warehou				
 If the container in the fire has changed color or produces sound from a safety r 	elief device, it must be		om fire and heat sou				
evacuated immediately.	untra autre a transfer		mperature does not e	exceed 32 ° C, the	relative humidity	/ does not excee	d 80%
AND LOT TOTAL WITH TO		 Keep the con 	tainer sealed red separately from a	111			
6 · Accidental release measures			nt equipped with the				
6.1 Personal precautions, protective equipment and emergency procedures			rea should be equipp				nd mitable
1 Delineate the warning zone according to the influence area of liquid flow	and vapor diffusion,	containment mat		eu with leakage e	mergensy deadline	on equipment a	iu suitaore
and evacuate the unrelated personnel from the crosswind and upwind to the safe a	zone.						
2 It is recommended that emergency personnel wear positive pressure self-	contained breathing	8> Exposure of	coetrols/persoeal	protection			
apparatus and wear anti-virus suits.		8.1 Control Par	ameters				
		o.i control i a					
3 Cut off the leak source as much as possible			onal exposure limits				
 Cut off the leak source as much as possible Prevent leakage from entering water bodies, sewers, basements or confin 							
3 Cut off the leak source as much as possible 4 Prevent leakage from entering water bodies, sewers, basements or confin 5 Small amount of leakage: absorbed by sand or other non-combustible m		8.1.1 Occupation					
3 Cut off the leak source as much as possible 4 Prevent leakage from entering water bodies, sewers, basements or confin 5 Small amount of leakage: absorbed by sand or other non-combustible m 6 Large amount of leakage: constructing dikes or digging pits		8.1.1 Occupation	onal exposure limits				
3 Cut off the leak source as much as possible 4 Prevent leakage from entering water bodies, sewers, basements or confin 5 small amount of leakage: absorbed by sand or other non-combustible m 6 Large amount of leakage: constructing dikes or digging pits 7 Cover with from to rotence evaporation		8.1.1 Occupational E	onal exposure limits Exposure limit value	\$	e - Eight hours	Limit valu	e - Short tern
3 Cut off the leak source as much as possible 4 Prevent leakage from entering water bodies, severs, basements or confin 5 small amount of leakage: absorbed by sand or other non-combustible m 6 Large amount of leakage: constructing dikes or digging pits 7 Cover with fourn to reduce evaporation 8 Absorb large amounts of liquid with flying dust or lime powder		8.1.1 Occupation	onal exposure limits	\$	e - Eight hours mg/m3	Limit valu ppm	e - Short term mg/m3
3 Cut off the leak source as much as possible 4 Prevent leakage from entering water bodies, sewers, basements or confii 5 Small amount of leakage: absorbed by sand or other non-combustible m 6 Large amount of leakage: constructing dikes or diaging pits 7 Cover with form to rotauce evaporation 8 Absorb large amounts of liquid with flying dust or lime powder 9 Transfer to the tank true or special collector with the pump.		8.1.1 Occupational E	onal exposure limits Exposure limit value	s Limit valu			mg/m3
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3 Cut off the leak source as much as possible 4 Prevent leakage from entering water bodies, severs, basements or confin 5 Small amount of leakage: absorbed by sand or other non-combustible m 6 Large anount of leakage: constructing dikes or digging pits 7 Cover with fourn to reduce evaporation 8 Absorb large amounts of liquid with flying dust or lime powder 9 Transfer to the tank truck or special collector with the pump. 6.2 Environmental precautions 1) Prevent fUrther leakage or spillage if safe to do so.		8.1.1 Occupational E	onal exposure limits exposure limit value Country/Region USA-OSHA	s Limit valu ppm Unspecified	mg/m3 Unspecified	ppm Unspecified	mg/m3 Unspecified Unspecified
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3 Cut off the leak source as much as possible 4 Prevent leakage from entering water bodies, servers, basements or confin 5 small amount of leakage: absorbed by smd or other non-combustible m 6 Large amount of leakage: constructing dikes or digging pits 7 Cover with from to rotene evaporation 8 Absorb large amounts of liquid with flying dust or lime powder 9 Transfer to the tank truck or special collector with the pump. 6.2 Environmental precautions 1) Prevent further leakage or spillage if safe to do so. 2) Discharge into the environment must be avoided. 6.3Methods and materials for containment and cleaning up	aterials	8.1.1 Occupational E	nal exposure limits xposure limit value Country/Region USA-OSHA South Korea Ireland Germany (AGS)	s Limit value ppm Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified
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Tiftest TechnologyEx, tid. Dein King Agent SDS NO.	: T191220028A		gyEo, Ltd.		P	eirn Kir	ig Agei	nt		SD:	5 NO.: T191	220028A
8.1.2Biologicai limit values Biological limit values: No information available 8.1.3 Monitoring methods 1. EN 14042 Workplace atmospheres. Guide for the application and use of proc assessment of exposure to chemical and biological agents.	redures for the	Vapor de Relative o Solubility Octanol/v	lensity ((mg/L) vater pa	water = : No dat rtition c	1): No a availa oefficie	data ava ible. nt:No d	ailable. ata ava	úlable.				
 GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workpl standard). 	ace air (Series	A uto-igni Decompo Viscosity:	sition te No data	mperatu availabi	ire (°C)							
8.2 Engineering controls 1. Ensure adequate ventilation, especially in confined areas.		Others: N										
 Ensure that eyewash stations and safety showers are close to the workstation loca 	tion.	10. Stal										
3. Use explosion-proof electrical/ventilating/lighting/equipment.								an cause dec itions of use	omposition o	r other o	enemical	reactions.
Set up emergency exit and necessary risk-elimination area.		Possibilit							and storage.			
8.3 Personal protection equipment									heat, humidi	tv. etc.		
General requirement:			ible ma	terials: S	Strong of	xides, st	trong ac	ids, strong b				
	11000	11. Tox					uara av	anabie.				
		11.1 Acu	te toxic	ity								
Eye protection : Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).	C	ompone	nt	1	Dso(or:	an.	I Deo/Tra	nscutaneous	LC	linhalat	tion (h)
Hand protection : Wear protective gloves (such as butyl rubber), passing the tests a 374(EU),US F739 or AS/NZS 2161.1 standard.	ccording toEN		compon		-	lata avai			available		data ava	
Respiratory protection : If exposure limits are exceeded or if irritation or other sympt experienced, use a full- face respirator with multi-purpose combination (US) or type 1437) respirator cartridges.		11.2 Care										
Skin and body protection . Wear fire/flame resistant/retardant clothing and antistatic	boots		Comp					ARC			NTP	
Other protection: Smoking, eating and drinking are forbidden on the job site. Maintair habits.		11.3 Oth	All com	ponents			NO	Listed		NO	Listed	
9 > Physical and chemical properties ;		11.5 040										
Appearance: Yellow transparent liquid.			Corro	Serio u		Resp	Repr	Specific	Specific	Aspi	Germ	Repro
Odor: Stimulating smell.			sive	eye	sensi	irator	oduc	target	target	ratio	cell	ducti
Odor threshold: No data available.		Compo	skin/ irritat	dama ge/irri	tizati on	У	tive	organ toxicity -	organ toxicity -	n haza	mutag enicit	ve toxici
PH value:3.		nent	ion	tation	on	sensi	ity	single	repeated	rd	v	toxici
Melting point/freezing point (°C): No data available.			ion	auon		tizati	ny	exposure	exposure	IU	P	9
Initial boiling point and boiling range (°C): 55. Flash point (closed cup, °C): No data available.						on		entresare	entresure			
Evaporation rate: No data available.			No	No	No	No	No	No data	No data	No	No	No
Flammability (solid or gas): No data available.	11	All	data	data	data	data	data	available.	available.	data	data	data
Explosion upper/lower limit [%(v/v)]: No data available.	11	compo	avail	availa	avail	avail	avail			avail	availa	availa
Vapor pressure (kPa) :No data available.		nents	able.	ble.	able.	able.	able.			able.	ble.	ble.
vapor pressure (Kra) to data available.		12. Ecolo	gical in	formati	on:							
	late: 20-Dec19											
	ate: 20-Dec19	T7Test GHS S	DS Report	C)- TI 9121	0028A			8/11			Date: 20-	Dec19

	Dein Ki	ng Agent		SDSNO.: T191220028A	THE THE	est Technology	Co., Ltd.	D	ein King A	gent			SDS NO.:	T191220028
12.1 Acute aqua	tic toxicity												ls that gene) used for tra	
Component	Fish	Cru	staceans	Algae									nk to reduc	
All component			a available.	No data available.	elec	ctricity ge	enerated by	the vibrati	on.					
12.2 Chronic aquat	tic toxicity				forb term	bidden to perature	use woode during tran	n boats and sportation.	l cement sh Transportat	ips for bulk ion vehicles	transportat s shall be eq	ion. Avoid e uipped with	d additives. exposure, ra fire fighting utities. Befor	in, and hi g equipme
Component	Fish	Cri	istaceans	Algae									ion means, h	
All component			ta available.	No data available.	and	i announc	cements sho	ould be post	ted in accor	dance with	the relevant	transportati	ion requirem	nents.
12.3 Others Component			Soil mobility		222	-	atory info							
Component	Persistence and degradability	Bioaccumulation or bioaccumulation	Son moonity	Evaluation of PBT and vPvB results	e e	ompon	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS
All components	No data available.	No data available.	No data available.	No data available.		formic	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
						acid aurfactan	N. A	N. A	N. A	N, A	N. A	N. A	N. A	N. A
							N. A.	N. 6	18. A	19. A	17. A	IV. A	N. A	IN. A.
13、Disposal					t	ana and					100000			
considerations considerations: Waste chemicals: If				or labels. Contaminated	m	Dichloro nethane	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
considerations considerations: Waste chemicals: II packaging: Residual from heat and source Disposal considerat 14. Transportal UN Risk Classifica Packing label: Packaging label:	fyou need medical at hazards may still exis so fignition. If possi tions: Refer to the "D tion information: ngrous: Goods Num granne: None tion: Class 6.1 III Vies/Noj: No	st after the contents ble, recycle them to isposal" section. ber (UN No.): UN 1	of the packaging a the supplier for re	are emptied. Keep away Jecycling.	m 7 5 16 16 [1] htt [2]	tEINECS TSCA1 U Domestic Substance [nCCS] Othe 5.1 Referen [IPCS:Thi tp://www] IARC,	SJ Europea Jnited State Substance: es (NZIoC Philippine: ers ence : e Internatio i.ilo.org/dyn, website: h	an Inventor es Toxic Su s List [IE0] New Zer s Inventory mal Chemid u/icsc/show ttp://www.	y of Existin ibstances Co CSC 】 Chin dand Invent of Chemic of Chemic al Safety card home. iarc fr/.	g Commerci ontrol Act In na Inventory ory of Cher als and Cher	ial Chemica nventory [D v of Existing micals mical Subst	l Substance: SL] Canadi g Chemical ances Cards	s t	,website
considerations considerations Waste chemicals II packaging: Residual from heat and source Disposal considerat 14. Transportal UN proper shipping UN Risk Classifica Packing Category: Packaging label: Marine Pollutanto; P Ampoule bottle outs bottles or metal dmu	fyou need medical at hazards may still exi as of ginition. If possib tions: Refer to the "D tion information: ngerous Goods Num g name: None tion: Class 6.1 III (VerNo): No back according to the ide the ordinary woods no (cans) outside the in-	st after the contents ble, recycle them to isposal" section. ber (UN No.): UN 1 manufacturer" recc len box. Threaded g ardinary wooden boc ided to mix and tra	of the packaging a the supplier for re 593. mmendations, fo lass bottles, iron 1 ces. msport with acids,	re emptied. Keep away reyeling. r example: open drums. ids, glass bottles, plastic , alkalis, oxidants, foods	m 16 16 16 11 11 11 11 11 11 11 11 11 11	tEINECS TSCA1 U Domestic Substance InCCS1 . Other .1 Referent IPCS:The tp://www I IARC, .1 OECD: tp://www I CAME .1 CECD: tp://www I CAME .1 CECD: tp://www	S1 Europea Substances es (NZIoC Philippine ers ence : e Internatio iilo.org/dyn website.h the Globa .echemport C0 Chemice ChemiDpU	an Inventor es Toxic Su s List [IEG 1 New Zea s Inventory nal Chemio Vicsc/show tvicsc/sho	y of Existin bistances C CSC] Chin aland Invent of Chemic of Chemic cal Safety eard home. iarc.fr/. Information mportal/inc c http://cam http://cam	g Commerci ontrol Act In na Inventory ory of Cher als and Cher als and Cher on lex?pageID ecchemical sis nlm.nih n, website:	ial Chemica nventory [D v of Existing micals mical Subst =0&request s.noaa.gov/. .gov/chemi	l Substance: SL] Canadi g Chemical ances Cards	s t an (ICSC) Substance s. le. dlite.jsp. s/.	2019944 (2019

 U.S. Department of Transportation:ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg. Germany GESTIS-database on hazard substance, website: http://gestis-en.itmst.dc/. 	Material Safety Data Sheet	
16.2 Others:	Product name : Detergent(SAT-686) Revision : 01/08.2018 Version : 1.0.1	
1 Abbreviations and acronyms CAS -Chemical Abstracts Service PC-STEL- Short term exposure limit RPE -	Print date : 01.08.2018 Version : 1.0.1	
DNEL - Derived No Effect Level Respiratory Protective Equipment NOEC LC50 - Lethal Concentration 50% -No Observed Effect Concentration BCF -	01. Identification of substance, preparation and company	
PBT - Persistent, Bioaccumulative, Toxic Bioconcentration factor (BCF) UN-The IMDG-International Maritime Dangerous Goods United Nations	Product name: SAT-686	
NFPA-National Fire Protection Association CMR - Carcinogens, mutagens or substances toxic to reproduction	Use of the substance / preparation Detergent	
PC-TWA - Time Weighted AveragelARC - International Agency for Research on Cancer PNEC -Predicted No Effect Concentration LD50 - Lethal Dose 50%	Company Star Advance Technology Co.,Ltd.	
EC50 - Effective Concentration 50% POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative	Telephone Number 886-2-8522-8023 Emergency Phone Number 886-2-8522-8023	
ICAO/IATA-International Civil Aviation Organization/International Air Transportation Association ACGIH-American Conference of Governmental Industrial Hygienists OECD-Organization for	Validation Date November 01, 2017	
Economic Co-operation and Development	02. Composition/information on ingredients	
2)Disciaimer	Hazardous components Composition % CAS No.	
This Safety Data Sheet (SDS) was prepared according to UN GHS (the 7th revised edition). The data included was derived from international authoritative database and provided by the enterprise.	Potassium hydroxide <5% 1310 - 58 -	3
Other information was based on the present state of our knowledge. We try to ensure the correctness of	Sodium hydroxide <5% 1310 - 73 -	
all information. However, due to the diversity of information sources and the limitations of our	sodium hydrogen carbonate < 5% 1310 - 73 -	
knowledge, this document is only for user5s reference. Users should make their independent judgment	TOTAL: 100% 100%	
damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.	Hazard designation : 04. First-aid measures After inhalation Let in firsh air. After skin contact Flush away with water and rinse. After eye contact Remove contact lenses, keep eyelids open. Flush with plenty of water (15 min). Call a physician. After ingestion Drink plenty of water. Call a physician. 05. Fire-fighting measures Suitable extinguishing media Water spray jet. Unsuitable extinguishing media None known.	ſ
SDS Creation Date: 2019/12/20(valid for one year)	Additional information	

None. 06. Accidental release measures Personal precautions Take the precautions customary when handling chemicals.	10. Stability and reactivity
06. Accidental release measures Personal precautions	
Personal precautions	
	Conditions to avoid None.
	Materials to avoid
Environmental precautions	Avoid acid.
Do not empty into drains.	11. Toxicological information
07. Handling and storage	Toxicological tests
Information for safe handling	LD50/LC50 values that are relevant for classification
Avoid contact with skin and eyes.	Specification : LD-50
Information about protection against explosions and fires	Routes of entry : intraperitoneal
No anti-explosion measures necessary.	Test species : Rat
Further information about storage conditions	Value / dosage : > 3543 mg/kg
Always keep in containers of same material as the original one. See	12. Ecological information
also instructions on the label. Avoid heating and direct	Details on elimination (persistance / degradability)
sunlight.	Specification : Biorogical oxygen demand (BOD)
08. Exposure controls and personal protection	Value / dosage : no data available
Personal protective equipment	Specification : Chemical oxygen demand (COD)
General protective and hygiene measures	Value / dosage : no data available
Keep away from food, drink and animal feeding stuff	13. Disposal considerations Product
Respiratory protection Do not inhale the vapour. Use suitable respiratory protective device	Recommendation
(A2-P2) only when used in open systems and aerosol isformed.	In accordance with local official regulations.
Hand protection	14. Transport information
In full contact: Glove material: nitrile rubber Layer thickness: 0.11 mm	Land transport ADR/RID
Eye protection	Classification
Use tightly fitting safety glasses.	Class : No Classification
Body protection	Remarks
Light protective clothing.	Maritime transport IMDG/GGVSea
09. Physical and chemical properties	Classification
Image	IMDG-Code : -
Form : Liquid.	Air transport ICAO-TI and IATA-DGR
Colour : Clear	Classification
Odour : none	Class : No Classification
Relevant safety data Boiling point / range : 100°C	15. Regulatory information
Flash point : not applicable °C	Classification according to EEC directives
Vapour pressure : (50 °C) no data available hPa	Danger symbol and danger designation : -
Density : (20 °C) 1.055g/cm3	R-Phrases : -
Solvent-separation test : (20 °C) no data available %	S-phrases : -
Solubility in water : (20 °C) 100 g/l	16. Other information
pH value : 7.3+-0.5	The user is responsible for the observance of all required statutory
Flow time : (20 °C) no data available	provisions.
Viscosity : (20 °C) no data available	Further information
I I	
11	CHEWITECH INC CHEMISEAL A-521 SDS No. E6-A521-1 2016-02-16 Page 1/2

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. <section-header><section-header><section-header><section-header><section-header><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text>

- dust or mist:	Classification not possible		 Use only outdoors or 		
<pre> ·Skin corrosion / irritation: </pre>	Category 2		 Use personal protect 		equired.
·Serious eye damage / eye irri			 Use only non-sparking 		
	Category 2A		 Keep away from heat , 	/ sparks / open fl	
 Respiratory sensitization: 	Classification not possible				 No smokin
 Skin sensitization: Germ cell mutagenicity: 	Classification not possible Classification not possible		 Do not breathe dust Avoid breathing dust 		
·Carcinogenicity:	Classification not possible		Take measures agains:		
·Toxic to reproduction:	Category 1A	-Response:	Take incasures agains	t statio uisonaigo	
·Specific target organ systemi			haled] · Remove victim to fre	sh air and keep at	rest in
- Single exposure:	Category 1 (respiratory system.	211 111	a position comfortab		
	central nervous system)	[If exp	posed] · Call a doctor.	annoute accontenter	
	Category 3(respiratory irritation, narcotic effects)	[If exposed or cond	cerned] · Get medical advice ,	/ attention.	
- Repeated exposure:	Category 1(liver, kidney, central nervous system,		 Call a doctor / phys 		
	peripheral nervous system)		 Get medical advice / 		
 Aspiration hazard 	Classification not possible	-	 Take off contaminate 		h before reus
Environmental hazards			skin] Wash with soap and w		
 Hazardous to the aquatic envi Acute: 	Category 2		ccurs]•Get medical advice / eves]•Rinse continuously w		
- Chronic:	Classification not possible	LTI IN	Remove contact lense		
Symbols:	diasarridación noc possibile		continue rinsing.	a ii present anu e	13y to uo -
ojmooro.	$\wedge \wedge \wedge$		· Get medical advice /	attention if eve	irritation
			persists.		
	$\vee \vee \vee$	·Storage:	· Store in a well vent	ilated place. Keep	container
Signal words:	Danger		tightly closed.		
Hazard statement:	Highly flammable liquid and vapor		 Store locked up. 		
	Causes skin irritation	•Disposal:	 Dispose of contents / 		
	Causes serious eye irritation		local / regional / na		
	 (Respiratory tract irritation) May cause respiratory irritation / (Narcotic effects) May cause drowsiness or dizziness 		Ask a qualified trader trading.	r with approved qual	ification for
	• May damage fertility or the unborn child	3. COMPOSITION, INFORMATION	ON INGREDIENTS		
	Causes damage to organ	Single or mixture:	Mixture		
	· Causes damage to organ through prolonged or repeated	Chemical name:	Chloroprene rubber s	olvent	
	exposure	Synonym:			
	Toxic to aquatic life	Chemical characteristics:	—		
Precautionary statement		Components:			
Prevention:	•Wear protective gloves / eye protection /		ponents	Contents Wt.%	CAS No.
	face protection. • Use explosion-proof electrical / ventilating /	Chloroprene rubber		10 - 20	Secret
	 Use explosion-proof electrical / ventilating / lighting /curing equipment 	Phenol resin		5.0 - 15	Secret
	 Ground / Bond container and receiving equipment. 	Toluene		39	108-88-3
	Prevent release to the environment	n-Hexane (Hexane)		23	110-54-3
	• Do not eat, drink or smoke when using this product.	Ethyl acetate Xvlene		10 - 20	141-78-6
	· Do not handle until all safety precautions have been	Filler		1.0 - 5.0	Secret
	read and understood.	Additive		<1.0	Secret
	· Obtain technical data sheet before use.	Coloring agent		<1.0	Secret
	·Wash (hands, face, body) carefully after handling.			100.0	Secret
	 Keep container closed. 	An	nount	100.0	
	64 - 100 f				

CHEMITECH INC.	CHEMISEAL A-521 SDS No. EG-A521-1 2016-02-16 Page 4/8	CHEMITECH INC. C	HEMISEAL A-521 SDS No. EG-A521-1 2016-02-16 Page 5/8
Hazardous ingredients:	Toluene, n-Hexane(Hexane), Xylene, Ethyl acetate	·Precautions:	_
Hazardous impurities:	-	 Precautions for safe handling 	Wash hand and face carefully after handling.
		Storage	
4. FIRST AID MEASURES		Suitable storage conditions	
Inhalation:	If inhaled, remove to fresh air. Consult a physician if not recovered.	- Suitable storage conditions:	Keep the container in a cold and dark place, and keep off fire or heat sources.
Touched skin:	Wipe off the adhered materials and flush the skin with		UV rays, direct sun light, heat up
	water and soap. Consult a physician if inflammation	 Materials to avoid contact: 	Acid, base, strong oxidizer, peroxide
	or itching symptoms shown.	Containers:	Keep the material in the supplied container.
Splashed in eyes:	Flush eyes immediately with plenty of water for more than 15 minutes and consult a physician.		(Do not transfer to other containers)
Ingestion:	Do not induce vomiting. Give plenty of water to drink	8. EXPOSURE CONTROLS, PERSONAL PRO	
	and consult a physician as soon as possible.	Facilities:	Ventilate the workroom and install exhaust fans.
The symptoms and effects should	be summarized briefly:	Control concentration:	400ppm : Ethyl acetate
	-		100ppm : Xylene
Protection for first-aiders:	-		40ppm : n-Hexane (Hexane)
Note to physicians:	-		20ppm : Toluene
		Permissible concentration	
5. FIRE FIGHTING MEASURES		 ACG1H-TLV (2008) : 	400ppm : Ethyl acetate
Extinguishing media:	Air foam, carbon dioxide, dry sand, powder		100ppm : Xylene
Unsuitable extinguishing media:	-		50ppm : n-Hexane (Hexane)
	: Organic gases, carbon monoxide		20ppm : Toluene
Fire fighting instructions:	Use appropriate extinguishing media and put out from		2mg/m³ (TWA) : Filler
	upwind of the fire. Guard against intruders.	Protective means	
Protection for fire fighters:	Wear appropriate protective equipment. Make fire fighting activities from upwind of the fire.	 For respiratory system: For hands: 	Wear respirator for organic gases as required. Wear protective gloves (disposable type) made of impermeable materials.
6. ACCIDENTAL RELEASE MEASURES			 * Do not use gloves made of permeable materials such as cotton.
Safeguard (personnel):	Put on impermeable protective gloves, and avoid contact and inhalation. Ventilate the room and make	-For eyes:	Wear goggles suitable for chemical products.
	activities from upwind of the spill.	For skin and body	Apron (impermeable material) and long-sleeved work
Precautions for environment:	Prevent materials from entering waterways and sewers.	·For skin and body.	Apron (impermeable material) and long-sleeved work clothes.
Removal		Appropriate sanitary measures	
-Recovery:	 If the spill is small, wipe it off with paper. If the spill is large, dike spill and recover it. 	9. PHYSICAL AND CHEMICAL PROPERTIE	
Neutralization:	• If the spill is large, dike spill and recover it.	Physical properties	10
·Disposal:	Observe instructions in Article 13.	· Appearance:	Thixotropic liquid
Prevention of secondary damage:	Remove all source of ignition, stop leakage as soon	Color:	Amber
resonation of accontaily dallage.	as possible.	Odor :	No data
	au pourore.	Duor:	No data
7. HANDLING AND STORAGE			ge) at which physical properties have a discontinuity
Handling		·Boiling point:	No data
·Technical measures		Boiling range:	No data
- Prevention of exposure:	· Use protective means to avoid contact.	Melting point:	No data
	Ventilate workroom to avoid inhalation.	·Decomposition point:	No data
	· Wash hand and face carefully after handling.	Flash point:	≥ -25°C
- Prevention of fire and explos		Ignition point:	No data
	Keep the material away from all sources of ignition	Explosion range:	1. 1vol%~ No data
	and items whose temperature is higher than 40°C.	Vapor pressure:	No data

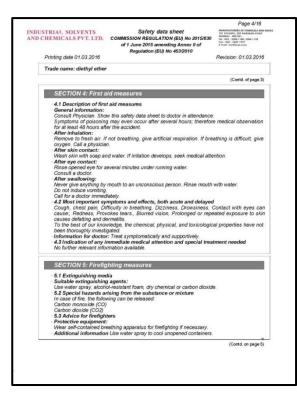
Vapor density:	No data	
Specific gravity: Solubility	0.88	
·For solvent:	Insoluble (water)	
•Octanol / water distribution c		
	No data	
10. STABILITY AND REACTIVITY		
Stability:	· Stable in sealed c	ontainer.
	· Stored in cool and	dark place.
Hazardous reaction under specia	conditions:	
	Polymerization and	
Conditions not to be exposed:		vs. direct sun light, heat up,
		metals, static electricity
Materials contact to be avoided		oxidizer, peroxide
Hazardous gases produced by dec		oon monoxide, Carbon dioxide etc
11. TOXICOLOGICAL INFORMATION		
Acute toxicity:	• rat (oral)	1.050
Addre Loxicity.	> 29,700mg/kg	: n-Hexane (Hexane)
	> 5,600mg/kg	: Ethyl acetate
	> 4,800mg/kg	: Toluene
	> 4.300mg/kg	Xvlene
	• rat (dermal)	
	> 12,000mg/kg	: Toluene
	• rabbit (dermal)	LD50
	> 14,100mg/kg	: n-Hexane (Hexane)
	 rat (inhalation) 	
	> 4,800ppm	: Toluene
	> 1,600ppm/8h	: Ethyl acetate
	 mouse (inhalation) 	
Local effect:	> 40,000ppm	:n-Hexane(Hexane) ur in direct touch for a long time
Local effect.	or in repeated use.	
Skin Corrosion / irritation:	or in repeated use.	
Irritation	• rabbit	
	Moderate	: To luene
	Positive	: Xvlene
		n-Hexane (Hexane)
Eye Damage / irritation:		
Irritation	• rabbit	
	Moderate	: Toluene
	1211120120120	Xylene
	Positive	: Ethyl acetate n-Hexane (Hexane)
Respiratory Organs Sensitizing		IT TICKOTO (TOKOTO)
or Skin Sensitization:	Positive	: Ethyl acetate
Germ Cell Mutagenicity (Mutagen		

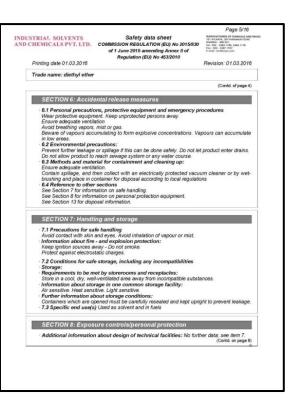
LARC Group 3 Toluene AGEH A4 Toluene Reproductive tox: Positive Toluene Reproductive tox: Positive Toluene Target Organ Systemic Toxicity: central nervous system: Toluene Sylene Target Organ Systemic Toxicity: central nervous system: Toluene (Single exposure) respiratory systemic Toxice Target Organ Systemic Toxicity: central nervous system; Toluene Target Organ Systemic Toxicity: central nervous system; Toluene Target Organ Systemic Toxicity: central nervous system; Toluene Repeated exposure) : Toluene n=thexane Ohxano) : Toluene Aspiration Hazard Positive : Toluene Aspiration Hazard Positive : Toluene - CobloGICAL INFORMATION : Toluene - n=thexane Ohxano) Sourcitity - orprinodon variegatus LOSO / 96h > Sarg/L : Toluene - adprini magna ECSO / 48h > 10 Sarg/L : Toluene - adprini magna ECSO / 48h > 10 Sarg/L : Toluene - daptrini magna ECSO / 24h > 10 Sarg/L : Toluene - Hexane Ohxano) - adprini magna ECSO / 24h > m=Hoxane Ohxano) - barane difect o			
Carcinopenioity: IAC Group 3 : Toluene AGBI A GIH A A : Toluene AGBI A : Toluene AGBI A : Toluene Reproductive tox: Positive : Toluene Irrest Grag Systemic Toxicity: central nervous system: Toluene (Single exposure) respiratory system : Ethyl acetate respiratory irritation. narocitic offects : Toluene n=Hexame Bleane) Target drag Systemic Toxicity: central nervous system. (Repeated exposure) · Toluene n=Hexame Bleane) Aspiration Hazard Positive : Toluene n=Hexame Bleane) Aspiration Hazard Positive : Toluene n=Hexame Bleane) 2. ECOLOGICAL INFORMATION Ecotoxicity · epyrinoden variegatus LCSD / 96h > 13.agr/L : Toluene n=Hexame Bleane) 2. ECOLOGICAL INFORMATION Ecotoxicity · epyrinoden variegatus LCSD / 96h > 13.agr/L : Toluene - daphnia magna ECSD / 48h > 19.6 agr/L : Toluene - daphnia magna ECSD / 48h > 19.6 agr/L : Toluene n-Hexame Bleane) Ethyl acetate Accumulation in organism: No data Mobility: No data Asgirefect on the ozone layer:No data 3. JISPICA. CONSIDERATION Enternational regulations . No Acta qualified trader with approved qualification for trading the waste to disuse it. 4. TANSPORTATION INFORMATION International regulations . No No : 1133 Proper Shipping name: ADRESIVES containing flammable liquid Hazard Olase: 3		Negative	: Toluene
LARC Group 3 Toluene AGEH A4 Toluene Reproductive tox: Positive Toluene Reproductive tox: Positive Toluene Target Organ Systemic Toxicity: central nervous system: Toluene Sylene Target Organ Systemic Toxicity: central nervous system: Toluene (Single exposure) respiratory systemic Toxice Target Organ Systemic Toxicity: central nervous system; Toluene Target Organ Systemic Toxicity: central nervous system; Toluene Target Organ Systemic Toxicity: central nervous system; Toluene Repeated exposure) : Toluene n=thexane Ohxano) : Toluene Aspiration Hazard Positive : Toluene Aspiration Hazard Positive : Toluene - CobloGICAL INFORMATION : Toluene - n=thexane Ohxano) Sourcitity - orprinodon variegatus LOSO / 96h > Sarg/L : Toluene - adprini magna ECSO / 48h > 10 Sarg/L : Toluene - adprini magna ECSO / 48h > 10 Sarg/L : Toluene - daptrini magna ECSO / 24h > 10 Sarg/L : Toluene - Hexane Ohxano) - adprini magna ECSO / 24h > m=Hoxane Ohxano) - barane difect o			Ethyl acetate
AGGIH A Guessian AGGIN AGGINAL AG	Carcinogenicity:		
Reproductive tox: Positive : Toluene Xylene Target Organ Systemic Toxicity: central nervous system: Toluene (Single exposure) respiratory system: Toluene respiratory irritation, narcotic offects Toluene respiratory irritation Aspiration Hazard Positive information Aspiration Hazard Positive information Aspiration Hazard Positive information Aspiration Hazard Positive information Positive information Aspiration Hazard Positive information Positive information Aspiration Hazard Positive information Positive information Aspiration Hazard Positive information Positive informatin Positive information Positive information Posi			
Xylene Xylene Xylene Target Gran Systemic Toxicity: central nervous system: Toluone (Single exposure) respiratory systemic Toxicity: central nervous system: (Repeated exposure) Target Gran Systemic Toxicity: central nervous system; (Repeated exposure) State Construction Aspiration Hazard Positive Solitive . Toluonen n-Hexane Ofexane) Aspiration Hazard Positive . Toluonen n-Hexane Ofexane) . Toluonen n-Hexane Ofexane) . Toluonen n-Hexane Ofexane) . Toluonen - daphnia magna - daphnia magna - daphnia magna - daphnia magna - daphnia magna - BSO / 48h > 19.6 eqc/ . Toluone - Hexane Ofexane) Ethyl acetate Accumulation in organism: Mo data Harmful effect on the ozone layer:No data 3. SISPOK_CONSIDERATIONS Ask a qualified trader with approved qualification for trading the waste to disuse it. 4. TANSPORTATION INFORMATION International regulations - UN No: No faza . JOSTOSK_CONSIDERATIONS Ask a qualified trader with approved qualification for trading the waste to disuse it. 4. TASUSPORTATION INFORMATION International regulations - Tourget is a containing flammable liquid			
Target Organ Systemic Toxicity: central nervous system: Toluone (Single exposure) respiratory system: Calume Target Organ Systemic Toxicity: central nervous system: Inverse Target Organ Systemic Toxicity: central nervous system: Inverse Target Organ Systemic Toxicity: central nervous system: Inverse Toluone Aspiration Hazard Positive : Toluone n Hexane Olexane) Aspiration Hazard Positive : Toluone n Hexane Olexane) 2. ECOLOGICAL INFORMATION Ecotoxicity - orprinodon variegatus LCSO / 96h > Inage/L : Ioluone - oncorhynohus mykiss LCSO / 96h > Jage/L : Ioluone - oncorhynohus mykiss LCSO / 96h > Jage/L : Ioluone - daptnia magna ECSO / 48h > Jage/L : Ioluone - daptnia magna ECSO / 48h > Jage/L : Ioluone - daptnia magna ECSO / 48h > Jage/L : Ioluone - daptnia magna ECSO / 24h > Jese: - Uthors: No data Mobility: No data Aspiration In organism: No data 3. DISPOSAL CONSIDERATION International regulations No A. 1133 - Proper Shipping name: ADESUES containing flammable liquid - Hazard Olexane: 3	Reproductive tox:	Positive	
(Single exposure) respiratory system `Ethyl actate respiratory irritation, narcotic offects respiratory irritation, narcotic offects Toluone n-Hexame Bleane) (Repeated exposure) :Toluone (Repeated exposure) :Toluone arget Organ Systemic Toxicity: central nervous system; liver, kidney (Repeated exposure) :Toluone Appiration Hazard Positive Appiration Hazard Positive > Toluone n-Hexame Bleane) Appiration Hazard orgprindon variegatus LOSO / 96h > 13.agr/L ·othors: ·ouprindon variegatus LOSO / 96h > 13.agr/L :Toluone ·othors: ·ouprindon variegatus LOSO / 96h > 19.6 agr/L :Toluone ·daphnia magna EOSO / 26h > 19.7 agr/L :Toluone ·daphnia magna EOSO / 24h > 1mg/L :Toluone ·daphnia magna :SO / 24h > 1mg/L :Toluone ·daphnia magna :SO / 24h > 10.sound :Hylacatale Solisons Ko da	Target Organ Systemic Toxicity	central nervous system	
respiratory irritation, narcotic offects Toluene n-Hexane Ofexane) Targent Organ Systemic Toxicity: (Repeated exposure) Aspiration Hazard Aspiration Hazard Aspiration Hazard Positive COLOGICAL INFORMATION Ecotoxicity - Fish toxicity - Fish toxicity - Fish toxicity - Fish toxicity - Concortinutus mykiss - CSO / 96h - S Jang/L - Joluene - daptrial magna - CSO / 96h - S Jang/L - Joluene - daptrial magna - CSO / 96h - S Jang/L - Joluene - daptrial magna - CSO / 28h - J 10 ene - Mosanto - Mosan			
argent Graan Systemic Toxicity: central nervous systemi. Iver, Kinney (Repeated exposure) - Tolunon Aspiration Hazard Positive : Tolunon Aspiration Hazard Positive : Tolunon 2. ECOLOGICAL INFORMATION - exprinodon variegatus LSS0 / 96h 2. FOOLOGICAL INFORMATION - exprinodon variegatus LSS0 / 96h 3. Bag/L : Tolunon - oncoftynofus mykiss LCS0 / 96h > 3. Smg/L : Tolunon - oncoftynofus mykiss LCS0 / 96h > 0 thors: - daphria magna ECS0 / 26h - 3. Smg/L : Tolunon - 0 thors: - daphria magna ECS0 / 26h - 3. Smg/L : Tolunon - 0 thors: - daphria magna ECS0 / 26h - 3. Smg/L : Tolunon - 0 thors: - daphria magna ECS0 / 26h - 3. Smg/L : Tolunon - 0 thors: - daphria magna ECS0 / 26h - 3. Smg/L : Tolunon - 0 thors: - basne 0 texanon Ethyl acetate - 5. Smg/L : Stolena Acumulation in organism: No data - Stospertations - 5. Smg/L : Stolena 3. DISPOSAL	(engle enpeeder)		
Target Organ Systemic Toxicity: central nervous system; liver, kidney:			: Toluene
(Repeated exposure) : Toluone Aspiration Hazard Positive : Toluone n-Hexane (Bexane) 2. ECOLOGICAL INFORMATION Ecotoxicity : orprinodon variegatus LCSO / 96h > Toluch : Toluone n-Hexane (Bexane) Xylene : Toluone : Toluone n-Hexane (Bexane) Xylene : Toluone : Toluone n-Hexane (Bexane) : Toluone : Sylene : Sylene : Sylene : Toluone : Toluone : Sylene : Sylene : Sylene : Toluone :			
Aspiration Hazard PositiveHexano (Hexano) Aspiration Hazard Positive :-Toluone Hexano (Hexano) Xylene 2. ECOLOGICAL. INFORMATION Ecotoxicity Fish toxicityyoprinodon variegatus LCSO / 96h -> 13.agr/L :-Toluone -> oncorhynohus wkiss LCSO / 96h -> 3.agr/L :-Xylene -> 19.6 agr.L :-Toluone -> daphnia magna ECSO / 48h -> 19.6 agr.L :-Toluone -> daphnia magna ECSO / 48h -> 19.6 agr.L :-Toluone -> 19.6 agr.L :-Toluone -> 19.6 agr.L :-Toluone -> HayrL :		central nervous syst	
Aspiration Hazard Positive : Toluane n-Hexane (Haxane (Haxane) Z. ECOLOGICAL INFORMATION Ecotoxicity • cyprinodon variegatus LSS0 / 96h > 13mg/L : Toluane - concortynotius mykiss LSS0 / 96h > 3.3mg/L : Joluane - daphnia magna ECS0 / 26h > 19.6mg/L : Joluane - daphnia magna ECS0 / 26h > 10 april : Joluane - daphnia magna ECS0 / 26h - daphnia mag	(Repeated exposure)		
2. ECOLOGICAL INFORMATION Ecotoxicity * Fish toxicity * Fish toxicity * Fish toxicity * Fish toxicity * Start * Start <	Appiration Marand	Pesitive	
2. ECOLOGICAL INFORMATION Ecotoxicity • oprinodon variegatus LOSO / 96h • Fish toxicity • oprinodon variegatus LOSO / 96h • Tomy/L Toluene • oncorhynchus mykiss LOSO / 96h • Others: • daphnia magna EOSO / 48h • 919. 6mg/L : Toluene • daphnia magna EOSO / 24h > 19. 6mg/L : Toluene • daphnia magna EOSO / 24h > 10. 6mg/L : Toluene • daphnia magna EOSO / 24h > 10. mg/L : Xiviene • daphnia magna EOSO / 24h > 10. mg/L : No data Hamful offect on the ozone layer: No data - m-Hoxane (Hexane) S. DISPOSAL CONSIDERATIONS No data At resuperAriton in organism: No data International regulations - 1133 .Proper Shipping name: ADHESIVES containing flammable liquid	Aspiration Hazard	POSICIVE	
2. ECOLOGICAL INFORMATION Evolution of the second			
Ecotoxicity ·Fish toxicity ·Fish toxicity ·Fish toxicity ·Ish			
 Fish toxicity opprinden variegtus LGS0 / 96h > 13ag/L Toluene oncorburchus mykias LGS0 / 96h > 3.3mg/L Toluene others: dabrhi smagna > 19.6mg/L Toluene - dabrhi smagna > 10g/L Toluene - dabrhi smagna > 10g/L Toluene - dabrhi smagna > 10g/L Toluene - dabrhi smagna > 10g/L Toluene - dabrhi smagna - BCS0 / 48h : Toluene - Hoxane (Hexane) Etso / 24h - Hoxane (Hexane) Ethyl acetate Accumulation in organism: No data Accumulation in organism: No data Accumulation in organism: No data Areardu offect on the ozone layer: No data 3. DISPOSAL CONSIDERATIONS Ask a qualified trader with approved qualification for trading the waste to disuse it. 4. TRANSPORTATION INFORMATION International regulations - MN Bo: - 1133 - Proper Shipping name: - ADHESIVES containing flammable liquid - Hazard Class: - 3 	12. ECOLOGICAL INFORMATION		
 > 13ag/L : Tolune - orochymolus mykiss LGS0 / 96h > 3.3mg/L : Xylene •Others: - daphnia magna EGS0 / 46h > 19.6mg/L : Tolune - daphnia magna EGS0 / 24h > 1mg/L : Xylene Persistency/Bio-degradability: Begradable : Tolune - Hexane (Hexane) Ethyl acetate Accumulation in organism: No data Mobility: No data Harmful effect on the ozone layer:No data : 3. DISPOSL CONSIDERATIONS Sak a qualified trader with approved qualification for trading the waste to disuse it. 4. TASKEPORTATION INFORMATION International regulations - UN No. : 1133 - Proper Shipping name: ADRESIVES containing flammable liquid - Hazard Olase: 3 	Ecotoxicity		
- orocorhynchus mykias LGS0 / 96h > 3.3mg/L Xylene -Others: - dabria magna > 19.6mg/L - GS0 / 48h - dabria magna > 19.6mg/L - GS0 / 24h - Xylene Persistency/Bio-degradability: Degradable : Toluene - Hoxane (Hexane) EGS0 / 24h - Xylene Persistency/Bio-degradability: Degradable : Toluene - Hoxane (Hexane) EGS0 / 24h - Xylene : Toluene - Hoxane (Hexane) : Xylene : Xyle	 Fish toxicity 		
 > 3.3mg/L :Xylene • Others: - daphnia magna ECSO / 40h > 19.6mg/L :Toluone - daphnia magna ECSO / 40h > 19.6mg/L :Toluone - daphnia magna ECSO / 24h > 1mg/L :Xylene Persistency/Bio-degradability: Degradable : Toluone - Hexane (Hexane) Ethyl acetate Accumulation in organism: No data Mobility: No data Solistos: Constituentions Ask a qualified trader with approved qualification for trading the waste to disuse it. 4. TRANSPORTATION INFORMATION International regulations - UN No.: 1133 - Proper Shipping name: ADESUPS containing flammable liquid - Hazard Olase: 3			
-Others: - dsphnia magna - E650 / 48h > 18.6mg/L - foluene - dsphnia magna - E650 / 24h - Toluene - dsphnia magna - E650 / 24h - Jmg/L - Stylene - Hexane Oksane) Ethyl acetate Accumulation in organism: No data Modility: No data Afamrful affect on the ozone layer: No data 3. DISPOSAL CONSIDERATIONS Ask a qualified trader with approved qualification for trading the waste to disuse it. 4. TRANSPORTATION INFORMATION International regulations -UN No. : 1133 -Proper Shipping name: ADHESIVES containing flammable liquid -Hazard Class: 3			
 > 19. 6mg/L : Toluone - 10. 6mg/L : Joluone - daphnia magna EGSO / 24h > 1mg/L : Xylene Persistency/Bio-degradability: Degradable : Toluone 		> 3. Slig/L	: Xylene
- daphnia magna ECSO / 24h > 1mg/L Xylene Persistency/Bio-degradability: Degradable : Tolunen n-Hexane (Hexane) Ethyl acetate Accumulation in organism: No data Mobility: No data Harmful effect on the ozone layer:No data 3. DISPOSA. CONSIDERATIONS Ask a qualified trader with approved qualification for trading the waste to disuse it. 4. TRANSPORTATION INFORMATION International regulations - un No.: 1133 -Proper Shipping name: ADHESIVES containing flammable liquid -Hazard Class: 3	•Others:	•daphnia magna	EC50 / 48h
 > Img/L : Xylene Persistency/Bio-degradability: Degradable : Toluane network (Beana) Ethyl acetate Accumulation in organism: No data Konta No data Imarful offect on the ozone layer:No data 3. DISPOSAL CONSIDERATIONS Ask a qualified trader with approved qualification for trading the waste to disuse it. 4. TRANSPORTATION INFORMATION International regulations -UN No. : 1133 -Proper Shipping name: ADIESUKS containing flammable liquid +Hazard Class: 3 		> 19.6mg/L	: Toluene
Persistency/Bio-degradability: Degradable : Toluene n-Hexane Üksane) Ethyl acetate Accumulation in organism: No data Mobility: No data Harmful effect on the ozone layer:No data 3. DISPOSA. CONSIDERATIONS Ask a qualified trader with approved qualification for trading the waste to disuse it. 4. TRANSPORTATION INFORMATION International regulations UN No. : 1133 -Proper Shipping name: ADHESIVES containing flammable liquid +Hazard Class : 3			
n-Hexano (Hexano) Ethyl acetate Mobility: No data Harmful effect on the ozone layer:No data 3. DISPOSA. CONSIDERATIONS Ask a qualified trader with approved qualification for trading the waste to disuse it. 4. TRANSPORTATION INFORMATION International regulations UN No.: 1133 -Proper Shipping name: ADNESIVES containing flammable liquid Hazard Class: 3		> 1mg/L	: Xylene
n-Hexano (Hexano) Ethyl acetate Mobility: No data Harmful effect on the ozone layer:No data 3. DISPOSA. CONSIDERATIONS Ask a qualified trader with approved qualification for trading the waste to disuse it. 4. TRANSPORTATION INFORMATION International regulations UN No.: 1133 -Proper Shipping name: ADNESIVES containing flammable liquid Hazard Class: 3	Paraistanay (Rio-degradability)	Degradable	Toluopa
Ethyl acetate Acounulation in organism: No data Nobility: No data Tamful effect on the ozone layer:No data 3. DISPOSAL CONSIDERATIONS Ask a qualified trader with approved qualification for trading the waste to disuse it. 4. TRANSPORTATION INFORMATION Intermational regulations -UN No.: 1133 -Proper Shipping name: ADHESIVES containing flammable liquid -Hazard Class: 3	reisiscency/bio-degradability.	Degradabie	
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Harmful effect on the ozone layer:No data 3. DISPOSAL CONSIDERATIONS Ask a qualified trader with approved qualification for trading the waste to disuse it. 4. TRANSPORTATION INFORMATION International regulations -UN No. 1133 -UN No. 1133 -Proper Shipping name: ADMESIVES containing flammable liquid -Hazard Class: 3	Accumulation in organism:		
DISPOSAL CONSIDERATIONS Ask a qualified trader with approved qualification for trading the waste to disuse it. TRANSPORTATION INFORMATION International regulations UN No.: 1133 Proper Shipping name: ADMESIVES containing flammable liquid Hazard Class: 3			
Ask a qualified trader with approved qualification for trading the waste to disuse it. 4. TRANSPRCTATION INFORMATION International regulations UNRO: 1133 Proper Shipping name: ADMESIVES containing flammable liquid Hazard Class: 3	Harmful effect on the ozone lay	er:No data	
Ask a qualified trader with approved qualification for trading the waste to disuse it. 4. TRANSPRCTATION INFORMATION International regulations UNRO: 1133 Proper Shipping name: ADMESIVES containing flammable liquid Hazard Class: 3	13 DISPOSAL CONSIDERATIONS		
International regulations UM No.: 1133 -Proper Shipping name: ADHESIVES containing flammable liquid Hazard Class: 3		proved qualification for	or trading the waste to disuse it.
International regulations UM No.: 1133 -Proper Shipping name: ADHESIVES containing flammable liquid Hazard Class: 3			
-UN No.: 1133 Proper Shipping name: ADHESIVES containing flammable liquid Hazard Class: 3			
-Proper Shipping name: ADHESIVES containing flammable liquid -Hazard Class: 3	International regulations		
-Hazard Class: 3		1133	
	 Proper Shipping name: 	ADHESIVES containing	g flammable liquid
-Packing Grroup: II	·Hazard Class:	-	
	Packing Grroup:	Π	

	CHEMISEAL A-521 SDS No. E0-4521-1 2016-02-16 Page 8/8	INDUSTRIAL SOLVENTS AND CHEMICALS PVT. LTD.	Safety data sheet COMMISSION REGULATION (EU) No 2015/830 of 1 June 2015 amending Annex II of Regulation (EU) No 453/2010	MANUFACTURERS OF OHEMICALS AND DRUG 101 ATLANEA. 2019 MARKAAN FOINT MUMAAI - 400 021. Tel: 022 - 2284 1180, 2284 1178 Fox: 022 - 2287 1187 E-moli - Incillargal.com
•Marine Pollutant Material:	None	Printing date 01.03.2016		Revision: 01.03.2016
Other regulations:	None			
Safety precautions for transpo		SECTION 1: Identit	fication of the substance/mixture and	of the company/
	Be sure containers have no leakage. Pile the containers	undertaking		
	in an orderly manner so that no collapse and damage		2	
	happens during transportation.	Trade name: diethyl et CAS Number:	ther	
Others:	Observe all instructions in Article 7 for transportation.	60-29-7		
Materials not to be transporte		EC number:		
	None	200-467-2		
		Index number:		
 REGURATORY INFORMATION Please refer to national regula 	ations that may be relevant	603-022-00-4 Registration number 0	1 2110535785 20 0002	
i rouse rerer to national regul	actions choic may of folloyalit.		uses of the substance or mixture and uses	advised against
16. OTHER INFORMATION		Used as solvent, used a		and agained
	ithout warranty. The figures shown in this document, such	Sector of Use		
	d physical properties, are not guaranteed value.		ses of substances as such or in preparations a	
-No information about harmfulne	ss of the product exists at present.	SUB Manufacture of bi SU9 Manufacture of fir	Ik, large scale chemicals (including petroleum) be chemicals	products)
	ared for the safe handling of the product, based		cing] of preparations and/or re-packaging (exclu	ding alloys)
	ormation, including those from raw Material manufacturers.	SU12 Manufacture of p	plastics products, including compounding and c	onversion
	t for safety use. Please pay attention in handling. red to prepare the precautions in this document. If non-		es: Public domain (administration, education, el	ntertainment, services,
	should take additional safety measures appropriate to	craftsmen) SU24 Scientific resear	ah and development	
that purpose.	silouru take auurtronar sarety moasures appropriate to	Product category PC1		
·This SDS may be revised when	new knowledge is obtained.	Process category		
			process, no likelihood of exposure	
			continuous process with occasional controlled batch process (synthesis or formulation)	exposure
			and other process (synthesis) where opportunity	for exposure arises
		PROC5 Mixing or bler (multistage and/or signi	nding in batch processes for formulation of pre licant contact)	
			ubstance or preparation (charging/discharging) from/to vessels/large
		containers at non-dedic PROC8b Transfer of s containers at dedicated	ubstance or preparation (charging/discharging) from/to vessels/large
		PROC9 Transfer of si including weighing)	ubstance or preparation into small containers	(dedicated filling line,
		PROC10 Roller applica PROC15 Use as labor		
		PROC16 Using mate expected	rial as fuel sources, limited exposure to un	burned product to be
		Environmental release		
		ERC1 Manufacture of ERC2 Formulation of p		
			of processing aids in processes and products.	not becoming part of
		articles	west of decident of	
			e indoor use of processing aids in open system	
		ERC8d Wide dispersiv	e outdoor use of processing aids in open syste	(Contd. on page 2)
		L		(conta on page z)

CHEMICALS PVT. LTD.	COMMISSION REGULATION (EU) No 2015/830 of 1 June 2015 amending Annex II of Regulation (EU) No 453/2010	TOT ATLANTA, 201 HARIMAN POINT AUAMAA - 400 021. Tot: 022 - 2081 TMA, 2084 TTM Poia: 022 - 2087 TMA? F-molt: bollbogt.com
Printing date 01.03.2016		Revision: 01.03.2016
Trade name: diethyl ether	r	
Application of the sul	bstance / the mixture used as solvent and in fue	(Contd. of page 1) e/s
Manufacturer/Supplie Industrial Solvents and	1 Chemicals Pvt. Ltd., nan Point, Mumbai – 400 021. nail: hshah@iscpl.com 80 / 2284 1178	
Further information o Mr. P. R. Rao / Email: Tel : 0091-2648-23954 Fax : 0091-2646-25117	lsclank@iscpl.com 9/239553/239554	
223 70 Lund, Sweden 1.4 Emergency telephone Contact details of Euro Telephone number of Opening hours:	cheelevägen 17, Beta 5 hone number: ⊨ number: 0091-2646-239549/239553/239554 opean importer	
SECTION 2: Hazar	rds identification	
Classification accord Flame Flam. Liq. 1 H224 Ex Acute Tox. 4 H302 Ha	the substance or mixture ling to Regulation (EC) No 1272/2008 xtremely flammable liquid and vapour. armful if swallowed. ay cause drowsiness or dizziness.	
Labelling according t	to Regulation (EC) No 1272/2008 sified and labelled according to the CLP regulation	n. (Contd. on page 3)

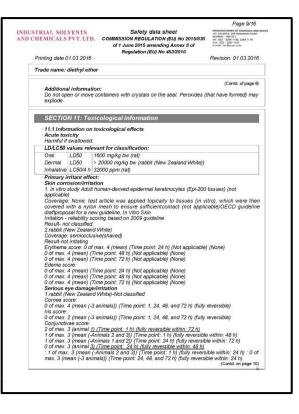




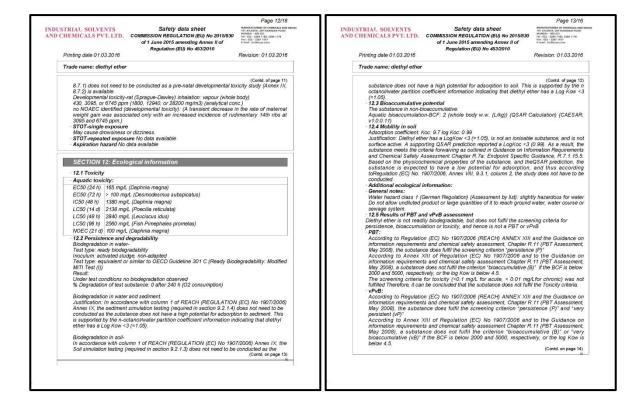


of 1 June 2015 amending Annex II of Regulation (EU) No 453/2010 Final Structure Regulation (EU) No 453/2010 Revision: 01.03.2016	of 1 June 2015 amending Annex II of Test 2019 Test 10 Test 2019 Te
Trade name: diethyl ether	Trade name: diethyl ether
(Contd. of page 6)	(Cond. of page 6 (Con
PNEC sediment (firstwate): 9: 14mg/kg sediment dw PNEC sediment (maine wate): 0.914 mg/kg sediment dw PNEC sediment (maine wate): 0.914 mg/kg sediment dw PNEC sediment (maine wate): 0.914 mg/kg sediment dw PNEC series and protective and plants PNEC series and plants of bioaccumulation 3:2 Exposure controls 3:2 Exposure controls 3:2 Exposure controls 3:3 Protective and hygienic measures: The susial protectives and hygienic measures: The susial protectives and hygienic dwates and feed Keep away from flookluffs, beverages and feed Keep away flookluffs, beverages and feed Keep away flookluffs, beverages and fee	Body protection: Protective work clothing SECTION 9: Physical and chemical properties General Information Appearance: The substance is a liquid at 20 °C and 1013 Colour: Colour: Colour: Odour: Sweetih Odour threshold: No determined.
Respiratory production: those and the second secon	- pH-value: Not determined. - Change in condition Melling point/Melling range: According to Regulation (EC) no. 1807/2008 Melling point/Melling range: According to Regulation (EC) no. 1807/2008 Melling point/Bolling range: 34.59 °C Bolling point/Bolling range: 34.59 °C
n	(Contd. on page 8

Printing date 01.03.2016 Regulation	(EU) No 453/2010 Revision: 01.03.20
Trade name: diethyl ether	
	(Contd. of page
- Flash point:	-40 °C
· Flammability (solid, gaseous):	Vapour flammability range 1.85-36.50 v% atmospheric pressure
 Ignition temperature: 	
Decomposition temperature:	Not determined.
Self-igniting:	175 ℃ (DIN 51794, Gödde)
- Danger of explosion:	May form explosive peroxides.
Explosion limits: Lower: Upper:	1.85 Vol % 36.5 Vol %
Vapour pressure at 25 °C:	71.6 kPa (static method)
Density at 20 °C: Relative density at 20 °C	0.71 g/cm ³ 0.7134 g/cm ³
 Solubility in / Miscibility with water at 20 °C: 	64.9 gA
Partition coefficient (n-octanol/water) at 2 ℃:	0 1.05 log POW
 Viscosity: Dynamic at 20 ℃: 9.2 Other information 	0.233 mPas No further relevant information available.
peroxides. The product may decompose explosively if il 10.4 Conditions to avoid Heat, flames and sparks. Extremes of tempe 10.5 Incompatible materials: Oxidizing age 10.6 Hazardous decomposition products:	on available. a wolded: pressure. Surgen, the product very quickly tends to for its concentrated or heated (e.g. distillation). instrume and direct sunlight. Inst. Strong acids

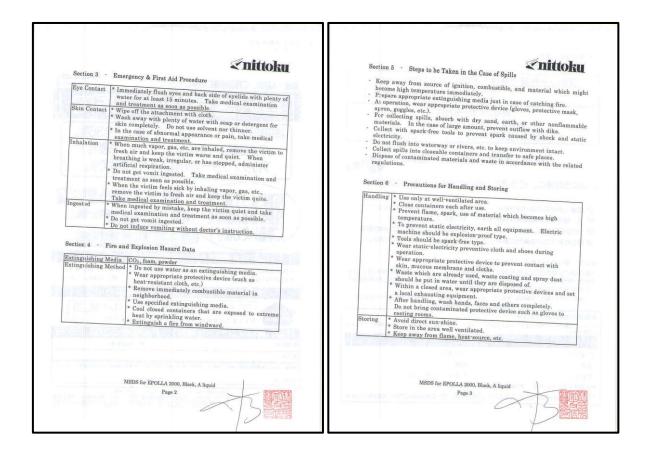


		Residence and the second second second		Page 11/1
USTRIAL SOLVENTS CHEMICALS PVT. LTD. COMMISSION REGULATION (EU) No 2015/830 of 1 June 2015 amending Annex II of Regulation (EU) No 453/2010	MANUMACTURED OF CHIMICALS AND DRUGS 101 ARCMART, SOM SAREMAAR POINT MUMBAR, +000 001. Tel: 002 - 2024 1106 2024 1178 Fox: 002 - 2027 1957 E-molt: Incellegil.com	INDUSTRIAL SOLVENTS AND CHEMICALS PVT. LTD.	Safety data sheet COMMISSION REGULATION (EU) No 2015/830 of 1 June 2015 amending Annex II of Regulation (EU) No 453/2010	MANUACTURES OF CHEMICAS AN 101 ATLANTA. 201 MARIMAN POINT MUMBAI - 400 021, 101: 022 - 2284 1180, 2284 1178 Fox: 022 - 2287 1197 E-mell heilingsi.com
Printing date 01.03.2016	Revision: 01.03.2016	Printing date 01.03.2016		Revision: 01.03.201
Trade name: diethyl ether		Trade name: diethyl ether		
1:1 of max. 3 (mean (-Animals 1 and 3)) (Time point: 1h) (fully reversible within .2 in .2 of max. 3 (menar (-3 minute)) (Time point: 4.4, 8, and 7.2 h) (fully reversible within .2 in .2 of max. 3 (mean (-3 minute)) (Time point: 4.4, 8, and 7.2 h) (fully reversible within .2 h) of max. 3 (mean (-1 minute)) (Time point: 1 h) (fully reversible within .2 h) (Chernosis score:	4 h) 4 h) werable within: 24 h) y reversible within: 48 24 h) versible within: 24 h) : versible within: 24 h) : ver	LOAEL: 2000 mg/a pb/ 2. Repeated does toxiol Method-att (Sprague-D) 0. 1 vol% (Motopm) (nr. Vehicle: unchanged (no. for cleaning), food and opened for no more that Results-AOALC: 10000 novever, value not repor- NOEC: 1000 pm (male 3. Repeated does toxio) by dermal exposure att inhiaition exposure att inhiaition exposure att inhiaition exposure att inhiaition exposure att inhiaition exposure att of Miragenetic-I volto da Mammalian cell gener Doese: Toxioly experim Results-Evaluation of results re- gotta att outsource act, with and without c c In vivo data-microsude for of results re- activation Test results: Genotoxicity: regative group, ataxis and const 30 minutes) Genotoxicity: regative danex Line carrinoge as the test substance indicate that the test sul Reproductive toxicity Toxicity for period	sívely maleřtemale subacute (inhalation: vapou- minal conc.) 1 vořík (10000pm) (moninal conc. vehicle) Exposure: 35 daya exposure (Exposure amber vas opened tivec per veek (and no mr. vater regenistment), and weighting of anima particulation (increased tive to-body veej part (malefinenel) (increased tive to-body veej fordel NOAEC assigned by registrant). Sy: dermal ince with column 2 of REACH Annex VIII, the- indra relevant forde of exposure writty, mutagenicity and toocisty for reproduc fa sussistis, negative with metabolic activation nega or mouse jumphonen L5/1787 volikijal strainác sussistis, negative veti timetabolic activation nega or mouse jumphonen L5/1787 volikijal strainác body vegati (actual injected) sus assay (chromosome aberration) ane intraperincel body vegati (actual injected) gative (male/female); toxicity: yes (in the 2000 mg ricted abdomen were noted in 5 males and 5 fit a available and cultación A particular de rescuenda 2 1, does a no ci diasaffe a a mutagen and be repeate batance with column 2 of REACH (REGULATIOI nicity study (required in section 8 2, 1) does no a ci diasaffe	(i) (whole body) (i) (whole body) (i) (whole body) (i) (whole body) (i) (whole body) (i) (whole body) (ii) (whole body) (ii) (whole body) (iii) (whole body) (whole body) (iii) (whole body) (iii) (whole body) (whole

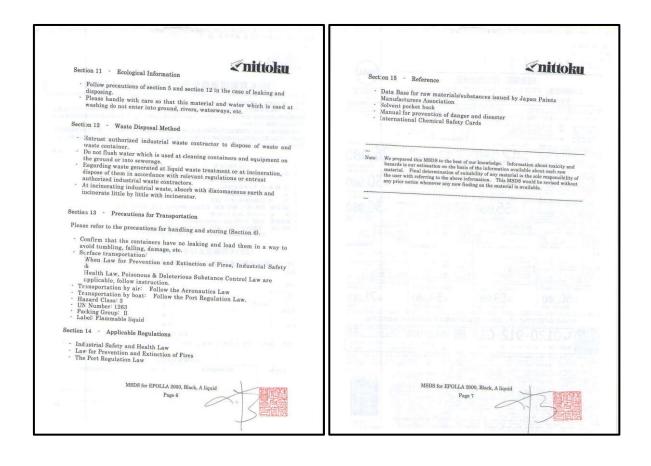


CHEMICALS PVT. LTD. COMMISSION RI of 1 June 20	fety data sheet EGULATION (EU) No 2015/830 015 amending Annex II of tion (EU) No 453/2010	MANUACTURES OF CHINKLASS AND DELOS 161 ATLANTA, 200 CTI MINIARA - 200 CTI E-mail Inclineateon Revision: 01.03.2016	INDUSTRIAL SOLVENT AND CHEMICALS PVT. Printing date 01.03.2	LTD. COMMISSION of 1 June Regu	Safety data sheet N REGULATION (EU) No 2015/830 e 2015 amending Annex II of ulation (EU) No 453/2010	MANUACTURES OF CHEMICALL AND 101 ALTANEAL OP NARMAR POINT MUMMAR - 400 021. Tel: 022 - 2287 1180, 2284 1178 Fox: 022 - 2287 1195 2284 1178 Fox: 022 - 2287 1195 2
Trade name: diethyl ether		101001.01.00.2010	Trade name: diethy			101001.01.00.2010
		(Contd. of page 13)				(Contd. of page 14)
12.6 Other adverse effects No further re	elevant information available.		- 14.7 Transport II of Marpol and	in bulk according to i the IBC Code	Annex Not applicable.	
SECTION 13: Disposal considera	ations			itional information:		
 13.1 Waste treatment methods Recommendation Following pre-treatment and observing taken to a permitted hazardous wastes la 	the regulations for hazardou andfill or hazardous wastes inci	us wastes, it must be cinerator.	ADR Limited quantit Transport categ Tunnel restricti	gory	0 1 D/E	
 European waste catalogue 13 07: Wast Uncleaned packaging: 			· UN "Model Reg	ulation":	UN1155, DIETHYL ETH 3. I	ER (ETHYL ETHER),
	tion		substance or m Labelling accor The substance is	rding to Regulation (I	EC) No 1272/2008 ed according to the CLP regulatio	on.
Disposal must be made according to offic Contaminated packaging: Contaminated packaging should be en returned for re-use.		eing suitably cleaned		Regulatory inform	mation mental regulations/legislati	ion specific for the
SECTION 14: Transport informat			· Labelling accor	rding to Regulation (I s classified and labelle	(EC) No 1272/2008 ed according to the CLP regulation	on.
SECTION 14: Transport informat 14.1 UN-Number ADR, IMDG, IATA 14.2 UN proper shipping name ADR	UN 1155 1155 DIETHYL ETHER (E		Labelling accor The substance is Hazard pictogra	rding to Regulation (I s classified and labelle ams	(EC) No 1272/2008 ad according to the CLP regulation	on.
SECTION 14: Transport informat 14.1 UN-Number ADR, IMDG, IATA 14.2 UN proper shipping name ADR IMDG, IATA	UN1155		- Labelling accor The substance i: - Hazard pictogra GHS02 GHS07 GHS02 GHS07	rding to Regulation (l s classified and labelle ams	(EC) No 1272/2008 ed according to the CLP regulatio	on.
SECTION 14: Transport informat 14.1 UN-Number ADR, IMDG, IATA 14.2 UN proper shipping name ADR	UN 1155 1155 DIETHYL ETHER (E		Labelling accor The substance i. Hazard pictogra GHS02 GHS07 Signal word Da Hazard statem H224 Extremely H303 May cause Precautorary :	rding to Regulation (1 s classified and labelle ams inger ints flammable liquid and i svallowed. e drowsiness or dizzine statements	ed according to the CLP regulation vapour. ess.	
SECTION 14: Transport informat 14.1 UN-Number ADR, IMDG, IATA 14.2 UN proper shipping name ADR 14.3 Transport hazard class(es)	UN 1155 1155 DIETHYL ETHER (E		Labelling accor The substance i. Hazard pictogri GHS02 GHS07 Signal word Da Hazard stateme H224 Extremely H302 Hamital if H364 May cause P210 P241	rding to Regulation () s classified and labelle ams inger ints flammable liquid and swallowed. e drowsiness or dizzin statements Keep away from I ignition sources. Nk Use explosion.proo	ed according to the CLP regulatio vapour. ess. heat. hot surfaces, sparks, op o emoking.	en flames and other
SECTION 14: Transport informati - 14.1 UN-Humber - ADR, IMDG, IATA - 14.2 UN proper shipping name - ADR - MDG, IATA - 14.3 Transport hazard class(es) - ADR, IMDG, IATA - Class	UN 1155 1155 DIETHYL ETHER (E DIETHYL ETHER (ETHYL 3 Flammable liquids.		Labelling accor The substance is Hazard pictogri GHIS02 GHIS02 GHIS02 GHIS07 Signal word Da Hazard statemen H224 Extremely H302 Harmful if H338 May cause Pecautionary s P210 P241 P261	rding to Regulation (I) classified and labelle ams finamable liquid and labelle ams finamable liquid and swallowed. e drowsines or dizzine statements Keep away from I uga titon sources. No Use explosito sources. No Use explosito nearling auto SI FON SKIN (or h	ed according to the CLP regulation vapour: ess: heat, hot surfaces, sparks, op o socking //entilating/lighting/eq suffumegas/mist/vapour/opray/ ast/immediately all/stres/	een flames and other uipment.
SECTION 14: Transport informati - 14.1 UN-Number - ADR, IMOG, IATA - 14.2 UN proper shipping name - ADR - MDG, IATA - MDG, IATA - ADR, IMDG, IATA - Class - Label - 14.3 Transport hazard class(es) - ADR, IMDG, IATA - Class - Label - 14.4 Packing group	UN 1155 1155 DIETHYL ETHER (E DIETHYL ETHER (ETHYL 3 Flammable liquids.		Labelling accor The substance is Hazard pictogri GHIS02 GHIS02 GHIS02 GHIS07 Signal word Da Hazard statemen H224 Extremely H302 Harmful if H338 May cause Pecautionary s P210 P241 P261	rding to Regulation (I sciassified and labelie ams sciassified and labelie ams mathematical and science in the sciassification scial constraints of distin- statements Keep away from I gintto sciures. No lose explosion-pro- Avcid breathing dur- ble explosion-pro- Avcid breathing dur- ble explosion-pro- Avcid breathing dur- Brinne skin with wat Store locked up.	ed according to the CLP regulation vapour. ess. heat, hot surfaces, sparks, op o smoking. Kenntiating/liphing/equ isfmicingarmitkapouncipray. adi): Take off immediately all ci ter/shower.	ven flames and other vipment. ontaminated clothing.
SECTION 14: Transport informati - 14.1 UN-Number - ADR, IMDG, IATA - ADR, IMDG, IATA - MAZ - MODG, IATA - ADR, IMDG, IATA - Class - Label - 14.4 Transport hazard class(es) - ADR, IMDG, IATA - Class - Label - 14.4 Facking group - ADR, MMOG, IATA - 44.5 Environmental hazards: - Marine polutant: - 14.4 Special precautions for user - Danger code (Komley: - Danger (Komley:	UN 1155 1155 DIETHYL ETHER (E DIETHYL ETHER (ETHYL 3 Flammable liquids. 3 1 No Warning: Flammable liquid	(L ETHER)	Labelling accord The substance is Hazard pictogri GHIS02 GHIS02 GHIS02 GHIS07 Signal word Da Hazard stateme H224 Extremely H302 Harmful if H338 May cause Precautionary is P210 P241 P261 P303+P361+P31 P405 P501 National regula	rding to Regulation (I seasified and labelie ams classified and labelie ams regore refs flammable liquid and ref flammable liquid and ref availowed. e drowsiness or dizzine statements Keep away ross in State and refs Keep away ross in State and refs flammable liquid and refs flammable liquid statements Keep away ross in State locked up. Trinse skin with wat Store locked up. This coked up.	ed according to the CLP regulation vapour. tess. heat. hot surfaces, sparks, op o sanoking. of electrical/ventilating/lighting/eq strumerigas/mita/papours/spary. all): Take off immediately all co ter/ahower. ts/container in accordance with in ations.	ven flames and other vipment. ontaminated clothing.
SECTION 14: Transport informati 14.1 UN-Humber - ADR, IMDG, IATA - 4.2 UN proper shipping name - MIDG, IATA - MIDG, IATA - ADR, IMDG, IATA - Class - Labed - Labed - Labed - 14.3 Freenomental hazards: - Marine pollutant: - 14.4 Special precautions for user	UN 1155 1155 DIETHYL ETHER (E DIETHYL ETHER (ETHYL 3 Flammable liquids. 3 1 No Warning: Flammable liqui	(L ETHER)	Labelling accord The substance is Hazard pictogri GHS02 GHS07 Signal word Da Hazard stateme H224 Extremely H302 Hamitul H304 May cause P240 P241 P261 P303-P305(HP3) P405	rding to Regulation (I seasified and labelie ams classified and labelie ams regore refs flammable liquid and ref flammable liquid and ref availowed. e drowsiness or dizzine statements Keep away ross in State and refs Keep away ross in State and refs flammable liquid and refs flammable liquid statements Keep away ross in State locked up. Trinse skin with wat Store locked up. This coked up.	ed according to the CLP regulation vapour: ess: heat, hot surfaces, sparks, op sonoking kventiating fighting/reg softmisgasimistivapours/spray: all: Take of immediately all oc ter/shower immediately all oc ter/shower immediately all oc storates and the sonorthing software ter/shower immediately all oc storates and the software of the software software of the software of the software of the software software of the software of the software of the software software of the software of the software of the software of the software software of the software of	ven flames and other uipment. ontaminated clothing.

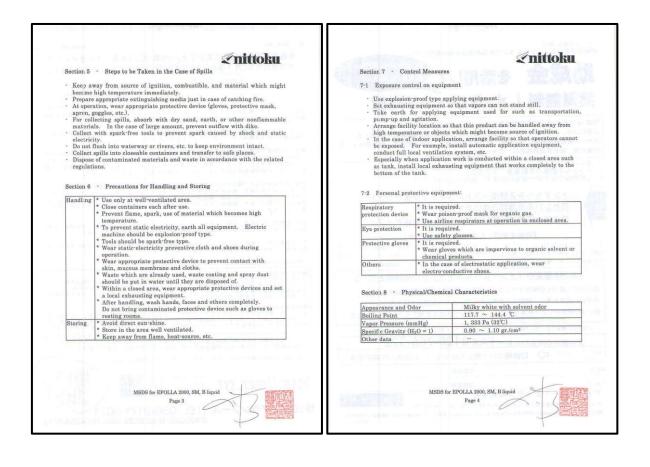
Printing date 01.03.2016 Revision: 01.03.2016	计中国日本 网络拉莱马			Nittok
Trade name: diethyl ether	Material Safety Data	Sheet		
Conti. of page 15) Substances of very high concern (SVHC) according to REACH, Article 57 The substance is not listed as SVHC. 152 Ohemical safety assessment: A Chemical Safety Assessment has been carried out.		Tel:	and a second second	
A chemical salety Assessment has been carried out.	Name of the product	EPOLLA #2000	Black A Barris	
	General Description	Classification	Main Main	
SECTION 16: Other information	Main Application	Purpose: for	ptical equipment	f epoxy resin coating
This information is based on our present knowledge. However, this shall not constitute a	Section 1			
quarantee for any specific product features and shall not establish a legally valid contractual	Section 1 - General	Information abo	ut Manufacturer	A REAL PROPERTY OF A REAL PROPER
relationship.	Manufacturer's na			
Department issuing MSDS: Product safety department.	Emergency Telephone	ime	Nihon Tokushu T	Orvo Co. Ist
Contact: Mr. P. R. Rao / Mr. Hiten P. Shah	Telephone Number	Number	03 (3913)	6131
 Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement 	Information	TOP	03 (3913)	6131
concerning the International Carriage of Dangerous Goods by Road	Address			
IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association	Date prepared	5-16-7	Oji, Kita-Ku, Tok	yo, Japan 114-8584
GHS: Globally Harmonised System of Classification and Labelling of Chemicals	The date of issue		sterised on Jun	e 11, 2007
EINECS: Europeen Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)	Prepared by		Sept. 6, 2	007
DNEL: Derived No-Effect Level (REACH)	R. ut		S.Higashide /	K.Nomi
PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent	Section 2 - Hazardou	s Ingredients/Ide	ntitu Tufo	197
LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic	Hazar lous Component			
SVHC: Substances of Very High Concern	Carbon black		Content (%)	PRTR
vPvB: very Persistent and very Bioaccumulative Flam. Liq. 1: Flammable liquids, Hazard Category 1	Toluene	1333-86-4	$1 \sim 5$	InIn
Acute Tox, 4: Acute toxicity, Hazard Category 4	Methyl isobutyl ketone	108-88-3	26.1	Class 1-227
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 Sources	Ethylene glycol mono	108-10-1 111-76-2	$10 \sim 20$	01430 1 621
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE	butyl ether	111-76-2	$1 \sim 5$	
COUNCIL on classification, labelling and packaging of substances and mixtures, amending	Epoxy resin (solid)	25068-38-6	10	or constant and
and repealing Directives 67/548/ EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006	Clause in the		$40 \sim 50$	
Otals from Chemical Safety Report (CSR) of CAS: 60-29-7 Otals from CHA website for Registered substances http://echa.europa.eu/registration-dossier//registered-dossier/14887 ** Data commerced to the previous version altered. Section 3: Composition Information on Ingredients Section 4: Field Infrastrues Section 6: Accidential Release measures Section 6: Accidential Release measures Section 7: Daylacial and Chemical properties. Section 10: Stability and Releasing Inprotection. Section 10: Stability and Releasing Inpotention. Section 12: Ecological Information.	Classification by the Jap It is classified as II harmful material. - It is extremely famm - It may cause semaitin - It may cause semaitin - It contains a substan	nable liquid and solvent poisonin	may explode if vap g. itact. e cancer.	naterial and other



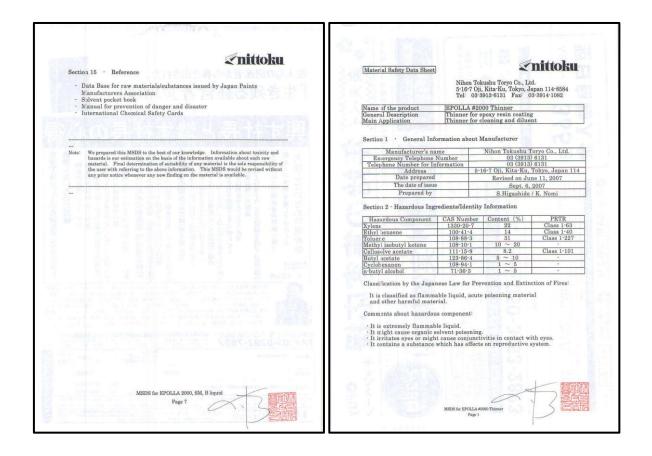
Section 7 - C		< n	ittoku	Section 9 -	Reactivity Do	to		~ nittok
alast Sectors	ontrol Measu	ures		Characteristic				
7-1 Exposure c	ontrol on equ	lipment	should be a set of the			56		
				Flash Point (M Ignition Point	ethod Used)	7.0 %		
- Set exhaust	on proof type	applying equipment.		Explosion Limi		460 %		
- Take earth	for applyin	applying equipment. nt so that vapors can not stand still. ng equipment used for such as t	A DESCRIPTION OF THE REAL OF T	LEL & UEL	ts	LEL:	1.2 %	the second s
Dilmn-tim on	d and the state	a adaipment used for such as it	and a factor of a second and a second s			UEL:	8.0 %	
high towner	lity location	so that this product can be handled .		Reactivity and				
				Reactive condit	on		-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
				(temperature, 1)				
				Dangerous mate	rial by	Oxidizing	agent	
as tank, inst	all local exhs	on work is conducted within a closed susting equipment that works comple	d area such	Generation of to				
bottom of the	tank.	equipment that works comple	etely to the	incineration et/		It may gen	nerate to	oxic gas such as CO, etc.
				Other reactive i				
7-2 Personal pro	tective equip	ement:	Contraction of the second s	Other dangerous		No data av	nth ami	ne type, organic, acid type, et
Respiratory	* It is requ		the first of the second se	information		and anter a	anable	A REAL PROPERTY AND A REAL
protection device	* Wear not	lired.						
	* Use airli	son-proof mask for organic gas.		Section 10 - 1	nform - ti			
Eye protection		ne respirators at operation in enclose	ed area.		mormation at	out Hazar	d	
	* Use safet	v glasses		Material name	Control of	ACGIH	Ting	
Protective gloves	* It is reau	ired			concentration	(TLV)	IARC Class	Other hazardous information
	* Wear glo	ves which are impervious to organic s		Carbon black		3.5		LD50(Oral): >15,400 mg/kg
thers	chemical	products.	solvent or	Toluene		mg/m ³	-	(rat)
energ.	- In the cas	se of electrostatic application, wear		Methyl isobutyl	50 ppm	50 ppm	**	LD ₅₀ (Oral): 636 mg/kg (rat)
	electro-co	nductive shoes.		ketone	50 ppm	50 ppm	**	LD ₅₀ (Oral): 2,080 mg/kg (rat)
		The second second second second	1.0.00	Ethylene glycol mono butyl ether	25 ppm	20 ppm		LD ₅₀ (Oral): 530 mg/kg (rat)
ection 8 - Phys	ical/Chemica	al Characteristics						10 10 10 10 10 10 10 10 10 10 10 10 10 1
				Epoxy resin				ID (O I) - C
pearance and Od		Black liquid with solvent odor		Epoxy resin (solid)				LD50(Oral): >2,000 mg/kg
opearsnce and Od	or	Black liquid with solvent odor 110.6 ~ 117.0 °C		(solid)				LD ₅₀ (Oral): >2,000 mg/kg (rat)
opearance and Od biling Point apor Pressure (mn	or 1Hg)	Black liquid with solvent odor 110.6 ~ 117.0 ℃ 4,893 Pa (30℃)		(solid)				(rat)
opearance and Od viling Point apor Pressure (mn ecific Gravity (Ha	or 1Hg)	Black liquid with solvent odor 110.6 ~ 117.0 ℃ 4.893 Pa (30℃) 1.24 ~ 1.34 gr./cm ³		(solid) 10-1 Hazardous				(rat) ed hazardous material
ection 8 - Phys ppears nee and Od point por Pressure (mn ecific Gravity (H ₂ her ds ta	or 1Hg)	Black liquid with solvent odor 110.6 ~ 117.0 ℃ 4,893 Pa (30℃)		(solid) 10-1 Hazardous · Epcxy resin:	information al	bout the al	ove list	ed hazardous material
ppearsnce and Od iling Point por Pressure (mn ecific Gravity (Hs	or 1Hg)	Black liquid with solvent odor 110.6 ~ 117.0 ℃ 4.893 Pa (30℃) 1.24 ~ 1.34 gr./cm ³		(solid) 10-1 Hazardous - Epcxy resin: It might o	information al	bout the al	oove list s for so	ed hazardous material
ppearsnce and Od iling Point por Pressure (mn ecific Gravity (Hs	or 1Hg)	Black liquid with solvent odor 110.6 ~ 117.0 ℃ 4.893 Pa (30℃) 1.24 ~ 1.34 gr./cm ³		(solid) 10-1 Hazardous · Epcxy resin: It might of 10-2 Information	information al ause sensitive	oout the al	ove list	ed hazardous material me people.
ppearsnce and Od iling Point por Pressure (mn ecific Gravity (Hs	or hHg) O = 1)	Black liquid with solvent odor 110.6 ~ 117.0 °C 4.893 Pa (30°C) 1.24 ~ 1.34 gr./cm ³ 		(solid) 10-1 Hazardous · Epcxy resin: It might of 10-2 Information	information al ause sensitive about toxicity not tested safe	oout the al dermatiti of this pr ety of this p	oove list s for so oduct product.	ed hazardous material me people.
ppearsnce and Od iling Point por Pressure (mn ecific Gravity (Hs	or hHg) O = 1)	Black liquid with solvent odor 110.6 ~ 117.0 ℃ 4.893 Pa (30℃) 1.24 ~ 1.34 gr./cm ³		(solid) 10-1 Hazardous · Epcxy resin: It might of 10-2 Information	information al ause sensitive about toxicity not tested safe	oout the al	oove list s for so oduct product.	ed hazardous material me people.



		2	nittoku			Z nittoku	
Material Safety Data She	sat			Section 3 -		cy & First Aid Procedure	
	Nihon T 5-16-7 O	okushu Toryo Co., Li ji, Kita-Ku, Tokyo, J -3913-6131 Fax: (apan 114-8584	Eye Contact Skin Contact	water fo	ately flush eyes and back side of eyelids with plenty of or at least 15 minutes. Take medical examination atment as soon as possible. f the attachment with cloth.	
	Tel. 00	0010 0101 144- 0	00014 1002		* Wash a	way with plenty of water with soap or detergent for mpletely. Do not use solvent nor thinner.	
and the second s	index and in the second s	LA #2000, SM, B liquid			* In the c	ase of abnormal appearance or pain, take medical	
		irdener of epoxy res	sin coating	Inhalation	examina * When m	ation and treatment. nuch vapor, gas, etc. are inhaled, remove the victim to	
Main Application	Purpose: for opt	ical equipment		Innalation	fresh ai	ir and keep the victim warm and quiet. When	
Section 1 · General Information about Manufacturer				breathi	ng is weak, irregular, or has stopped, administer al respiration. get vomit ingested. Take medical examination and		
Manufacturer's na	me l	Nihon Tokushu Tor		and the local sectors	treatme	ant as soon as possible.	
Emergency Telephone I Telephone Number		03 (3913) 6 03 (3913) 6		and the second	* When the victim feels sick by inhaling vapor, gas, etc., remove the victim to fresh air and keep the victim quite Take medical examination and treatment.		
Information Address	5.16.7	Oji, Kita-Ku, Tokyo	Janan 114-8584	Ingested	* When i	ngested by mistake, keep the victim quiet and take	
Date prepared		Revised on June		B	medica	l examination and treatment as soon as possible.	
The date of issue		Sept. 6, 20			* Do not	get vomit ingested. induce vomiting without doctor's instruction.	
Prepared by		S.Higashide / H	K.Nomi		Do not	induce vomiting without doctor a matraction.	
Section 2 - Hazardou	is Ingredients/Ide	ntity Information		Section 4 -	Fire and	Explosion Hazard Data	
Hazardous Component			PRTR	Extinguishin		CO ₂ , foam, powder	
Xylene	1330-20-7 100-41-4	15	Class 1-63 Class 1-40	Extinguishir	ng Method	 * Do not use water as an extinguishing media. * Wear appropriate protective device (such as 	
Ethyl benzene n-butyl alcohol	71-86-3	20~30	Class 1-40	2400 1 11		heat-resistant cloth, etc.)	
Polyarnide resin	64754-99-0	30~40	and the strength			* Remove immediately combustible material in	
Classification by the Ja It is classified as harmful material.	flammable liquid	revention and Exti d, acute poisoning		and the second		neighborhood. * Use specified extinguishing media. * Cool closed containers that are exposed to extrem heat by sprinkling water. * Extinguish a fire from windward.	
 It is extremely flat It may cause organ It may cause dermination 	nic solvent poison	ing.	por stands still.				
						the second restriction of	
						MSDS for EPOLLA 2000, SM, B liquid	



	10.00			Znittoku		₹nittoku
Section 9 - Re Characteristics of	activity Data					Section 11 · Ecological Information
	a sea a sea a sea	0.8.5		4-4 334	5	- Follow precautions of section 5 and section 12 in the case of leaking and
Flash Point (Met)	hod Used)	28.0 ℃ 367 ℃	_			disposing.
Ignition Point Explosion Limits			1.0/			 Please handle with care so that this material and water which is used washing do not enter into ground, rivers, waterways, etc.
LEL & UEL		LEL: 1.1 % UEL: 11.25 %				washing do not enter into ground, rivers, water ways, etc.
Reactivity and st	ability data				_	Section 12 · Waste Disposal Method
Reactive conditio		-		State of the second		· Entrust authorized industrial waste contractor to dispose of waste an
(temperature, lig				iconvenete		 waste container. Do not flush water which is used at cleaning containers and equipment of
Dangerous mater contact	rial by Acid, oxidized agent, isocyanate		- 11 P	the ground or into sewerage.		
Generation of tox	of toxic gas at It may generate toxic gas such as CO, NOx, etc.		2023	· Regarding waste generated at liquid waste treatment or at incineration,		
incineration, etc.		100				dispose of them in accordance with relevant regulations or entrust authorized industrial waste contractors.
Other reactive in			-1.1.1.			- At incinerating industrial waste, absorb with diatomaceous earth and
Other dangerous information	1	No data ava	mable			incinerate little by little with incinerator.
Section 10 - I	nformation ab	out Hazard				Section 13 - Precautions for Transportation
Section 10 - In	nformation ab Control of concentration	ACGIH		Other hazardous information		Please refer to the precautions for handling and storing (Section 6).
	Control of	ACGIH (TLV) 100 ppm	IARC Class	LD ₅₀ (Oral): 4,300 mg/kg (rat)	and a second	Please refer to the precautions for handling and storing (Section 6). • Confirm that the containers have no leaking and load them in a way
Material name Xyleno Ethyl benzene	Control of concentration 100 ppm	ACGIH (TLV) 100 ppm 100ppm	IARC Class	LD ₅₀ (Oral): 4,300 mg/kg (rat) LD ₅₀ (Oral): 3,500 mg/kg (rat)	and a second	Please refer to the precautions for handling and storing (Section 6). Confirm that the containers have no leaking and load them in a way avoid tumbling, falling, damage, etc. Surface transportation:
Material name Xylene	Control of concentration 100 ppm	ACGIH (TLV) 100 ppm 100ppm 25 ppm	IARC Class	LD ₅₀ (Oral): 4,300 mg/kg (rat)	and a second	Please refer to the precautions for handling and storing (Section 6). • Confirm that the containers have no leaking and load them in a way avoid tumbling, failing, damage, etc. • Surface transportation: When Law for Prevention and Extinction of Fires, Industrial Safe
Material name Xyleno Ethyl benzene n·butyl alcohol	Control of concentration 100 ppm	ACGIH (TLV) 100 ppm 100ppm	IARC Class 	LD ₅₀ (Oral): 4,300 mg/kg (rat) LD ₅₀ (Oral): 3,500 mg/kg (rat) LD ₅₀ (Oral): 790 mg/kg (rat)	and a second	Please refer to the precautions for handling and storing (Section 6). - Confirm that the containers have no leaking and load them in a way avoid tumbling, falling, damage, etc. - Surface transportation: When Law for Prevention and Extinction of Fires, Industrial Safé &Health Law, Poissonus & Deleterious Substance Control Law are
Material name Xyleno Ethyl benzene	Control of concentration 100 ppm 	ACGIH (TLV) 100 ppm 100ppm 25 ppm (Ceiling Value)	IARC Class 	LD ₅₀ (Oral): 4,300 mg/kg (rat) LD ₅₀ (Oral): 3,500 mg/kg (rat)	and a second	Please refer to the precautions for handling and storing (Section 6). • Confirm that the containers have no leaking and load them in a way avoid tumbling, falling, damage, etc. • Surface transportation: When Law for Prevention and Extinction of Fires, Industrial Safe &Health Law, Poissnous & Deleterious Substance Control Law are applicable, follow instruction.
Material name Xyleno Ethyl benzene n·butyl alcohol Polyamide resin 10-1 Hazardou	Control of concentration 100 ppm 25 ppm s information	ACGIH (TLV) 100 ppm 100ppm 25 ppm (Callag Value)	IARC Class bove list	LD ₈₀ (Oral): 4,300 mg/kg (rat) LD ₂₀ (Oral): 3,500 mg/kg (rat) LD ₂₀ (Oral): 790 mg/kg (rat) It may cause dermatitis by skin contact. eed hazardous material	and a second	Please refer to the precautions for handling and storing (Section 6). Confirm that the containers have no leaking and load them in a way avoid tumbling, falling, damage, etc. Surface transportation: When Law for Prevention and Extinction of Fires, Industrial Safe &Health Law, Poisonous & Deleterious Substance Control Law are applicable, follow instruction. Transportation by air: Follow the Aeronautics Law Transportation by air: Follow the Port Regulation Law. Harard Class: 3 UN Number: 1263
Material name Xyleno Ethyl benzene n·butyl alcohol Polyamide resin 10-1 Hazardou	Control of concentration 100 ppm 25 ppm 	ACGIH (TLV) 100 ppm 100ppm 25 ppm (Callag Value)	IARC Class bove list	LD ₈₀ (Oral): 4,300 mg/kg (rat) LD ₂₀ (Oral): 3,500 mg/kg (rat) LD ₂₀ (Oral): 790 mg/kg (rat) It may cause dermatitis by skin contact. eed hazardous material	and a second	Please refer to the precautions for handling and storing (Section 6). Confirm that the containers have no leaking and load them in a way avoid tumbling, falling, damage, etc. Surface transportation: When Law for Prevention and Extinction of Fires, Industrial Safe & Health Law, Poisonous & Deleterious Substance Control Law are applicable, follow instruction. Transportation by bost: Follow the Aronautics Law Transportation by bost: Follow the Port Regulation Law. Hearard Class: 2 UN Number: 1263 Value Group: III
Material name Xyleno Ethyl benzene n·butyl alcohol Polyamide resin 10-1 Hazardou	Control of concentration 100 ppm 25 ppm s information i ally we do not l	ACGIH (TLV) 100 ppm 25 ppm (Ceiling Value) 	IARC Class bove list	LD ₈₀ (Oral): 4,300 mg/kg (rat) LD ₂₀ (Oral): 3,500 mg/kg (rat) LD ₂₀ (Oral): 790 mg/kg (rat) It may cause dermatitis by skin contact. eed hazardous material	and a second	Please refer to the precautions for handling and storing (Section 6). Confirm that the containers have no leaking and load them in a way avoid tumbling, falling, damage, etc. Surface transportation: When Law for Prevention and Extinction of Fires, Industrial Safe &Health Law, Poisonous & Deleterious Substance Control Law are applicable, follow instruction. Transportation by air: Follow the Aeronautics Law Transportation by air: Follow the Port Regulation Law. Harard Class: 3 UN Number: 1263
Material name Xyleno Ethyl benzene n·butyl alcohol Polyamide resin 10-1 Hazardou Especia 10-2 Informatio	Control of concentration 100 ppm 25 ppm s information i ally we do not l	ACGIH (TLV) 100 ppm 25 ppm (Ceiling Value) about the a have the im ity of this p	IARC Class bove list formatio	LD ₂₀ (Oral): 4,300 mg/kg (rat) LD ₂₀ (Oral): 3,500 mg/kg (rat) LD ₂₀ (Oral): 790 mg/kg (rat) LD ₂₀ (Oral): 790 mg/kg (rat) It may cause dermatitis by skin contact. .ed hazardous material n.	and a second	Please refer to the precautions for handling and storing (Section 6). Confirm that the containers have no leaking and load them in a way avoid tumbling, falling, damage, etc. Surface transportation: When Law for Prevention and Extinction of Fires, Industrial Safe & Health Law, Poisonous & Deleterious Substance Control Law are applicable, follow instruction. Transportation by bost: Follow the Aronautics Law Transportation by bost: Follow the Port Regulation Law. Hearard Class: 2 UN Number: 1263 Value Group: III
Material name Xyleno Ethyl benzene n·butyl alcohol Polyamide resin 10-1 Hazardou Especia 10-2 Informatio	Control of concentration 100 ppm 	ACGIH (TLV) 100 ppm 25 ppm (Ceiling Value) about the a have the im ity of this p	IARC Class bove list formatio	LD ₂₀ (Oral): 4,300 mg/kg (rat) LD ₂₀ (Oral): 3,500 mg/kg (rat) LD ₂₀ (Oral): 790 mg/kg (rat) LD ₂₀ (Oral): 790 mg/kg (rat) It may cause dermatitis by skin contact. .ed hazardous material n.	and a second	 Please refer to the precautions for handling and storing (Section 6). Confirm that the containers have no leaking and load them in a way avoid tumbling, falling, damage, etc. Surface transportation: When Law for Prevention and Extinction of Fires, Industrial Safe & Healt Law, Poissonous & Deleterious Substance Control Law are applicable, follow instruction. Transportation by bost: Follow the Aeronautics Law Transportation by bost: Follow the Port Regulation Law. Eased Class: 3 UN Number: 1:: Tabel: Flammable liquid Section 14 • Applicable Regulations Lawfort Prevention and Extinction of Fires
Material name Xyleno Ethyl benzene n·butyl alcohol Polyamide resin 10-1 Hazardou Especia 10-2 Informatio	Control of concentration 100 ppm 	ACGIH (TLV) 100 ppm 25 ppm (Ceiling Value) about the a have the im ity of this p	IARC Class bove list formatio	LD ₂₀ (Oral): 4,300 mg/kg (rat) LD ₂₀ (Oral): 3,500 mg/kg (rat) LD ₂₀ (Oral): 790 mg/kg (rat) LD ₂₀ (Oral): 790 mg/kg (rat) It may cause dermatitis by skin contact. .ed hazardous material n.	and a second	Please refer to the precautions for handling and storing (Section 6). Confirm that the containers have no leaking and load them in a way avoid tumbling, falling, damage, etc. Surface transportation: When Law for Prevention and Extinction of Fires, Industrial Safe & Health Law, Poisonous & Deleterious Substance Control Law are applicable, follow instruction. Transportation by boat: Follow the Aronautics Law Transportation by boat: Follow the Port Regulation Law. Heard Class: 3 UN Number: 1263 Packing Group: III Label: Flammable liquid Section 14 · Applicable Regulations Industrial Safety and Health Law
Material name Xyleno Ethyl benzene n·butyl alcohol Polyamide resin 10-1 Hazardou Especia 10-2 Informatio	Control of concentration 100 ppm 25 ppm s information ally we do not ! on about toxic! re not tested so	ACGIH (TLV) 100 ppm 25 ppm (Ceiling Value) about the a have the im ity of this p	IARC Class bove list formatio roduct	LD ₂₀ (Oral): 4,300 mg/kg (rat) LD ₂₀ (Oral): 3,800 mg/kg (rat) LD ₂₀ (Oral): 790 mg/kg (rat) LD ₂₀ (Oral): 790 mg/kg (rat) It may cause dermatitis by ekin contact. ed hazardous material n. t.	and a second	 Please refer to the precautions for handling and storing (Section 6). Confirm that the containers have no leaking and load them in a way avoid tumbling, falling, damage, etc. Surface transportation: When Law for Prevention and Extinction of Fires, Industrial Safe & Healt Law, Poissonous & Deleterious Substance Control Law are applicable, follow instruction. Transportation by bost: Follow the Aeronautics Law Transportation by bost: Follow the Port Regulation Law. Eased Class: 3 UN Number: 1:: Tabel: Flammable liquid Section 14 • Applicable Regulations Lawfort Prevention and Extinction of Fires



of water Take mee utact Wipe off Wash aw skin cor In the ca medical on When mu sick by and kee When br adminis Do not gg immedi	tely flush eyes and back side of eyelids with plenty for at least 15 minutes. dical examination and treatment as soon as possible. the attachment with cloth. ay with plenty of water with soap or detergent for appletely. Do not use solven nor thinner. Teratiment. The treatment. The source as a standard or the victim feels of vapor, gas, etc. are inhaled or the victim feels and warm and quite. See a doctor, eaching is weak, irregular, or has stopped, ter artificial respiration.		Use only at well-ventilated area. Close containers each after use. Forvent flame, spark, use of material which becomes high temperature. Provent build-up of electrostatic charges. Electric machines should be explosion-proof type. Tools should be spark/tree type.
sick by and kee When bre adminis Do not ge immedi	inhaling vapor/gas, remove the victim to fresh air p the victim warm and quiet. See a doctor. eathing is weak, irregular, or has stopped,	1 2012 0 1	Do not flush into sewerage system because this product generate
	et vomit ingested. Take medical treatment		flammable gas. Wear appropriate protective device to prevent contacting with skin, water was membrane and eyes. Waste wate coating and spray dust which are already used should be put in water until they are disposed of.
medical	gested by mistake, keep the victim quiet and take I treatment immediately. et vomit ingested.		Avoid direct sun-shine. Keep the area well ventilated so that vapor can not stand still. Keep away from flame, heat-source, etc.
4 - Fire and	Explosion Hazard Data	Section 7 -	Control Measures
shing Media	CO2, foam, powder, dry sand	7-1 Exposu	re control on equipment
ishing Method	Do not use water as an extinguishing media. Wear appropriate protective device (such as heat resistant cloth, etc.) Remove immediately combustible material in meighborhood. Use specified extinguishing media.	take exposu Ecocially w	of indoor application, apply under full local ventilation and re-proof measures such as application with automatic applicator when application work is conducted within a closed area such allo only with local exhausting equipment.
way from source rature immediate powder or foan ration, wear app , goggles, etc.). llecting spills, al	Taken in the Case of Spills e of ignition and material which might become high tely. m type extinguisher just in case of catching fire. propriate protective device (gloves, protective mask, bsorb with dry sand, earth or other non-inflammable	due to organ Use explosio Take earth built ingrup Arrange far	cation work is conducted at high place, be careful not to fall down in solvent poisoning. on proof type applying equipment. for applying equipment and prevent static electricity from in neighborhood by seattering water, etc. ility location so that this product can be handled away from
ark-free plastic	shovels, etc. r way or rivers, etc. to keep environment intact.	Contraction of the second s	rature or objects which might become source of ignition. al protective equipment:
e of contaminate	eable containers and transfer to safe places. ed materials and waste in accordance with the related	Respiratory p	protection Wear poison-proof mask for organic gas. Use airline respirators at operation in enclosed area
atons.		<u>Eye protectio</u> Protective gla	on Use safety glass. oves Wear gloves which are impervious to organic solvent or chemical products.
rature immediate powder or foar ration, wear app , goggles, etc.). Ilecting spills, al ials. case of large am oark free plastic flush into wate t spills into close	tely. m type extinguisher just in case of catching fire. propriate protective device (gloves, protective mask, basorb with dry sand, earth or other non-inflammable nount, prevent outflow with dike. shovels, etc. r way or rivers, etc. to keep environment intact. enble containers and transfer to safe places.	Take earth buildingrup Arrange fac high temper 7-2 Persona Respiratory 1 device Eye protectio	for applying equipment and prevent static electricit; in neighborhood by scattering water, etc. ility location so that this product can be handled aw rature or objects which might become source of ignit al protective equipment: protection Wear poison-proof mask for organic gas Use airline respirators at operation in , use safety glass. oves Wear gloves which are impervious to organic solvent or chemical products.

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Section 8 - Phy	sical/Chemical	Characteri	stics	A 20481	Section 11 - Ecological Information
Appearance and	Odor	12112	smell of	, transparent liquid with solvent	Follow precautions of section 5 and section 12 in the case of leaking and disposing, because it contains organic solvent.
Boiling Point Vapor Pressure	(mmHg)		4893 Pa	- 156.0 °C (30°C)	Section 12 · Waste Disposal Method
Density pH value Other data	-		0.80 ~ Unknov	0.90 gr./cm ³	Entrust authorized industrial waste contractor to dispose of waste and waste container.
0.56	600=			50.0 Pt man 5	Dispose of and clean waste in accordance with relevant regulations.
Section 9 - Rea Characteristics of				THE NEW MERCE	Do not flush water which is used at cleaning containers & equipment on the ground or into sewerage.
Flash Point (Me	thod Used) 5.0	D°C	_	1232	Section 13 - Precautions for Transportation
Ignition Point Explosion Limits		0 °C L: 1.1	U	EL: 8.0	Please refer to the precautions for handling and storing (Section 6).
LEL & UEL (%					In the case of shipment by boat and aircraft, it is necessary to use
Reactivity and s	tability data				UN marked containers.
Dangerous mate contact Generation of to		e do not hav), etc.	re inform	nation specially.	Surface transportation: When Law for Prevention and Extinction of Fires, Industrial Safety & Heulth Law, Poisonous & Deleterious Substance Control Law are
incineration, etc					applicable, follow instruction.
Other reactive information:	W	e do not hav	e inform	nation specially.	Transportation by boat: Follow the Port Regulation Law.
Section 10 - In	formation abou	t Hazard		a k	Transportation by air: Follow the Aeronautics Law
Material name	Control of	ACGIH	IARC	Other hazardous information	-UN Number: 1263
Xyleno	concentration 100 ppm	(TLV) 100 ppm	Class	LD ₅₀ (Oral): 4,300 mg/kg(rat)	·Hazard Class: 3
Ethyl benzene		100 ppm		LD ₅₀ (Oral): 3,500 mg/kg(rat) LD ₅₀ (Oral): 636 mg/kg(rat)	·Packing Group: II
Toluene Methyl	50 ppm	50 ppm		LD ₅₀ (Oral): 2,080 mg/kg(rat)	·Label: Flammable liquid
isobutyl ketone	50 ppm	50 ppm		LD ₅₀ (Oral)- 2,080 mg/kg(rat)	Section 14 - Applicable Regulations
Cellosolve acetate	5 ppm	5 ppm		LD ₅₀ (Oral): 2,700 mg/kg(rat)	
Butyl acetate	150 ppm	150 ppm		LD ₅₀ (Oral): 10,768 mg/kg(rat)	Industrial Safety and Health Law.
Cyclohexanon	25 ppm	25 ppm		LD ₅₀ (Oral): 1,620 µ l/kg(rat) LD ₅₀ (Oral): 790 mg/kg(rat)	Law for Prevention and Extinction of Fires Port Regulation Law
n-butyl alcohol	25 ppm	25 ppm (Ceiling Value)		LD50(Oral)- 790 mg/kg(rat)	
1001					Section 15 - Reference
10-1 Hazardou	is information a	about the at	ove list	ed hazardous material	- Data Base for raw materials/substances issued by Japan Paints
Cellosolve as	cetate: It has	effects on th	he repro	ductive system.	Manufacturers Association - Solvent pocket book
10-2 Informati	ion about toxici	ty of this pr	roduct	101 进行的中国的	 Manual for prevention of danger and disaster
	tested safety o				- International Chemical Safety Cards

Znittoku	MATERIAL SAFETY DATA SHEET (MSDS) Page 1/5
Note: We prepared this MSDS to the best of our knowledge. Information about toxicity and hazards is our estimation on the basis of the information available about each ream material. Hand determination of suitability of any material is the sole	SECTION 1: CHEMICAL PRODUCT AND COMPANY INDENTIFICATION
Note: We prepared this MSDS to the best of ear knowledge. Information about toxicity and hardra's is cure organization on the basis of the information available about each raw material. "Yinal determination of suitability of any material is the sole would be prevised without any prior notice whenever any new finding on the material is available.	Product Name ETHANOL (DENATURED ETHANOL) (ETHANOL DENATURED WITH TERT- BUTYL ALCOHOL AND SUCROSE OCTAACETATE)
的,不是不能的数据的,不能有效。"他们一下,在这些时间的,在一下,他们的一下。 1995年———————————————————————————————————	Supplier Shih Sheng Industry Co., Ltd. Address 4F,22,Lane 423,Yuan Shan RD., Zhonghe Dist, New Taipei City, Taiwan Telephone +886-2: 29570002 Fax +886-2: 29570117
(後来) とうちゅうゆう しょう しきりょう さんさき (4) (1) 転換的ないです	SECTION 2: HAZARDS INFORMATION
(a) If a constraint of the second se Second second seco	Hazard Category: Flammable liquid Material can burn with little or no visible flame. May be irritating to t eyes, skin, and respiratory system. May cause central nervous system depression.
All Andre Schultzer, Schultzer	Risk Statement
	Hazard statement : Highly flarmable liquid and vapour Cause ski initiation Cause seys initiation Mey cause respiratory irritation
Contracting Responses and a structure of the second	Safety Statement IF NE VFS: Revin calicularly with water for several minutes. Removes contact lenses, if present and easy to do. Continue rinking seek medical attention. IF ON SKN (or hai): Remove immediately all contaminated clothing. Rinse skin with water. Keep away from heat, sparks, open flames and hot surface. No smoking. Store in a well-wethlated place. Keep cool Take precautionary measures against static discharge. Use only non- sparking lools.
・ と、生産業務の実施があった。こので、ためには、1000年には、1000年に	Wash hands throughly after handling. Wear protective gloves and eye and face protection. SECTION 3: COMPOSITION, INFORMATION ON INGREDIENTS
1993年代,1997年代,1997年代,1997年代,1997年代,1998年代 1997年代,1997年代,1997年代,1997年代,1997年代,1998年代,1997年代 1997年代,1997年代,1997年代,1997年代,1997年代,1997年代,1997年代	Common name/ Synonym: Denatured ethanol (ETHANOL DENATURED WITH TERT- BUTYL ALCOHOL AND SUCROSE OCTAACETATE)
or set in a second set of a second seco	Material CAS
RESTAVE	Ethyl alcohol 64-17-5
	Sucrose Octaacetate 126-14-7
	Tert- butyl Alcohol 75-65-0

DV	ATERIAL SAFETY DATA SHEET (MSDS) Page 2/5	МА	TERIAL SAFETY DATA SHEET (MSDS) Page 3/5
	Fage 20		
Health Effects		SECTION 8: EXPO	DSURE CONTROL AND PERSONAL PROTECTION
Acute - Swallowed	nervous system effects	Exposure Standard	S:
Acute – Eye Acute – Skin Acute – Inhaled	Irritant, liquid may damage eyes May cause irritation May cause respiratory irritation, headache, nausea	Ethanol	TWA - 1000 ppm (1880 mg/m3) time weight average STEL - None allocated Carcinopen Category - None allocated
SECTION 4: FIRS	ST AID MEASURES	Sucrose Octaacetate Tert- Butyl alcohol Tert- Butyl alcohol	No exposure limit STEL – 150 ppm TVVA – 100 ppm, 300 mg/ms
	duce vomiting. Give plenty of water		
Skin W	ash eye with copious amounts of water for 15 minutes. Seek medical advice ash affected area well with water move to fresh air. Seek medical attention if irritation persists		Is: General exhaust is recommended. Fire Hazards. All electrical equipment, uld be installed according to wiring rules.
		Personal Protection	1
Advice to Doctor	Treat symptomatically; gastric lavage may be indicated if digested	Protective Equipment	. The use of respirator, eve protection and PVC or neoprene gloves is
SECTION 5: FIRE	FIGHTING MEAURES		propriate for the location (eg confined space)
heavier than air ar	: Highly flammable liquid and vapour. Burns with a colourless flame. The vapour is d may travel along the ground; distant ignition and flash back are possible. All vessels		SICAL AND CHEMICAL PROPERTRIES
must be earthed to	avoid static charges when agitating or transferring solvents.	Appearance Melting Point	Clear colourless liquid -117oC
Extinguishing Me alcohol stable foar	edia: Use water fog (or if available fine water spray), dry chemical, carbon dioxide or n.	Specific Gravity Flash Point Solubility in Water	0.79 – 0.81 13 oC Complete
decomposition lear	cedure: Use vator to cool exposed containers. Heating may cause expansion or ding to violent rupture of containers. Spills and leaks may be washed away with	Vapour Density Evaporation rate	1.59 to 1.62 3.3 (butyl acetate=1)
	I water, fog or spray. For major fires or where atmosphere is either oxygen deficient or able levels of combustion products, fire fighters must wear self-contained apparatus rotective clothing.	Molecular weight Autoignition temperat Formula (Ethanol)	46.08 ure 363oC C2H5OH
	mposition Products: Burning can produce carbon monoxide and/or carbon dioxide.		taacetate) C28H38O19
SECTION 6: ACC	IDENTAL SPILL AND RELEASE MEASURES	· · · · · · · · · · · · · · · · · · ·	BILITY AND REACTIVITY
	liminate all sources of ignition and take measures to prevent static discharge – no contain the soill for savage or absorb in inert absorbent material for disposal by an		able under recommended storage conditions. us reactions: Vapor may form explosive mixture with air
approved method.	Prevent run-off into drains and waterways. Spills can be converted to non-flammable	Conditions to avoid (e	a.g., static discharge shock or vibration): heat, flames and sparks. Extreme
mixtures by dilution	with water.	temperatures and dir	
SECTION 7: HA	NDLING AND STORAGE	Incompatible material	s: Alkali metals, Ammonia, Oxidizing agents, Peroxides, Strong Inorganic Acids
		SECTION 11: TOX	ICOLGICAL INFORMATION
dissipate static ele	vell ventilated areas away from all ignition sources. To avoid fire or explosion, etricity during transfer by grounding and bonding containers and equipment before al. Use explosion proof electrical equipment.	Ethyl alcohol	
	e Storage including any incompatibilities:		nanol is not toxic by OSHA standards. Coingestion of sedative hypnotics or ease the toxic affects of ethanol. No data available to designate the product as
	ntly closed in a cool, dry and well- ventilated place. Containers which are opened must ed and kept upright to prevent leakage. Consult local fire codes for additional storage		et organ toxicity through repeated exposure. No data available as an aspiration

MATERIAL SAFETY DATA SHEET (MSDS)			
Page 4/5		MATERIAL SAFETY DATA SH	EET (MSDS)
		MATERIAL SAFETT DATA SH	Page 5/5
Acute Toxicity: Acute oral foxicity (LD50): 3450 mg/kg (Mouse) (Ethanol)	SECTION	14: TRANSPORTATION INFORMATION	
Eye: Vapours may irritate the eyes.			
Skin: Contact with skin may result in slight irritation and redness. Prolonged or repeated contact may lead to irritant contact dermatitis.	UN Number Class Subsidiary	3 flammable liquid Risk None allocated	
Inhaled; Vapour is moderately irritating to mucous membranes and respiratory tract. Inhalation of the	Packaging Hazchem C		
vapour may result in drunkenness or headache, nausea, incoordination, narcosis, and vomiting.		pping Name ETHANOL (ETHYL ALCOHOL)	
Long Term Effects: Long term exposure by swallowing or repeated inhalation, may cause degenerative changes in the liver, kidneys, gastrointestinal tract and heart muscle.	SECTION	15: REGULATORY INFORMATION	
Tert-Butyl Alcohol	Classificatio	n: according to criteria of NOHSC.	
Product summary: t-Butanol is a known animal carcinogen. It has no confirmed teratogenic, mutagenic,			
or reproductive effects in humans. No data available to designate product as an aspiration hazard or to cause specific target organ toxicity through repeated exposure.	Poisons Sc	hedule: Not scheduled.	
Acute Toxicity: Acute oral toxicity (LD50): 2,743 mg/kg (Mouse)	SECTION	16: OTHER INFORMATION	
Other Hazard:	Disclaimer		
Eyes: Irritating to the eyes		that the information on this MSDS was obtained is provide without any warranty, expresses or im	
Ingestion: Harmful if ingested.	intornation	presented and conclusions drawn herein are fro	plied, regarding its corrections. Joint
Inhalation: Can be harmful if inhaled. Irritating to the respiratory tract.	substance if	self. The conditions or method of handling, stor	age, use and disposal of the product are
	substance i beyond our	self. The conditions or method of handling, stor control and may be beyond our knowledge. For	age, use and disposal of the product are this and orther reasons, we do not assur
Inhalation: Can be harmful if inhaled, Irritating to the respiratory tract. Skin: Harmful if absorbed through skin. Irritating to skin.	substance i beyond our responsibilit connected v	self. The conditions or method of handling, stor control and may be beyond our knowledge. For y and expressly disclaims liability for loss, dama with handling, storage, use or disposal of this pr	age, use and disposal of the product are this and orther reasons, we do not assur ge, or expense arising out of or in any wa oduct. If the product is used as a compon
Initiation: Can be harmful if inhated, Iritating to the respiratory tract. Skin: Harmful if absorbed through skin. Iritating to skin. <u>Sucrose Octaacetate:</u> Product summary: No data available for the teratogenic, mutagenic, or reproductive toxicity effects of this	substance i beyond our responsibilit connected in another p	self. The conditions or method of handling, stor control and may be beyond our knowledge. For y and expressly disclaims liability for loss, dama with handling, storage, use or disposal of this pr roduct, this MSDS information may not be appli	age, use and disposal of the product are this and orther reasons, we do not assur ge, or expense arising out of or in any wa oduct. If the product is used as a compon
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通過職業 Intest restorating/ca.tid. Film-Stripping Agent SDS NO.:T180817025A	通過過機測 Intest trebendagy Ca.ttl Film-Stripping Agent SDS NO.:T180817025A
	1 Identification of the chemical and supplier
	1.1 Product identifier
	Product Name: Film-Stripping Agent
	Product Model: FC-71
El Yeldassi delle	Product Code: T180817025A
Safaty Data Shoat	1.2 Relevant identified uses of the substance or mixture and uses advised against
Safety Data Sheet	Relevant identified uses: Cleaning the glass surface
J.	Uses advised against: Please consult manufacturer.
	1.3 Details of the supplier of the Safety Data Sheet
(SDS)	Name of the company:FoShan FangXi Technolongy Co., Ltd
	Address of the company: Room602 19th Floor NanYi District, Guicheng HaiSan Road, NanHai FoS
Creation Date: 2018/08/17	Guangdong
Revision Date: 2018/08/17	Telephone number: +86 (0) 757-86260662
Version: 20180817	Fax number:
Prepared according to UN GHS (the 7th revised edition)	Zip code:
	mail address:SSII781026@163. COM Emergency phone number: +86 (0) 757-86260662
Product Name:Film-stripping agent	2, Hazards identification:
	2.1 Hazard classification according to GHS: The product is not dangerous.
Model: FC-71	2.2 Label elements
	Hazard pictograms : None
	Signal word : None
Company Name: FoShan FangXi Technolongy Co., Ltd	2.3 Hazard statements: None
company runner roomin rungen reennolongy con the	2.4 Precautionary statements
	2.4.1 Prevention
	None
	2.4.2 Response
	None
XX LLAN	2.4.3 Storage
A Subol Billion Th	Not applicable 2.4.4 Disposal
通道、王、言思	P501 Dispose of contents/container in accordance with local/regional/national/internation
Written by TJTer Then by S Shanghai) Co.,Ltd. 服务专用章	regulations.
SERVICE SEAL	2.5 Hazard description
	2.5.1 Physical and chemical hazards This product is normally used without hazard.
TTest GHS SDS Report(E)-T180817025A 1/10 Date: 17-Aug18	TJTest GHS SDS Report(E)-T180817025A 2/10 Date: 17-Aug18

	Film-Strippin	g Agent	SDS NO.:T180817025A	Film-Stripping Agent SDS NO.:T180817025A
2.5.2 Health hazards This product is norm 2.5.3 Environmental haz Please refer to 12th 3. Composition/info Substance Prepatic Composition: Component	ually used without eards chapter of SDS. prmation on ing	hazard.	Concentration (weight percent, %)	2) Unsuitable extinguishing media: Do not use a solid water stream as it may scatter or spread fire. 5.2 Specific hazards arising from the substance or mixture 1) Will form explosive mixtures with air. 2) Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/ or vapour concentration. 3) Vapours may travel to source of ignition and flash back. 4) Liquid and vapour are alummable. 5) May enit poisonous fumes on fire. 6) Containers may explode when heated.
component		EC 140.		7) Fire exposed containers may vent contents through pressure relief valves.
Nonionic surfactant	64422-66-8	200202	20	May expansion or decompose explosively when heated or involved in fire.
Sodium hydroxide	1310-73-2	215-185-5	20	5.3 Advice for firefighters
Others			60	 As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and ull protective gear.
Canvis		0000		2)Fight fire from a safe distance, with adequate cover.
 First aid measure 	es			3)Prevent fire extinguishing water from contaminating surface water or the ground water
4.1 Description of first a	id measures			system.
the doctor in attendance. Skin contact: Durin off with plenty of water for	mediate medical a og production, take or at least 15 minu	off contaminat tes and consult a	red. Show this safety data sheet (SDS) to ed clothing and shoes immediately. Wash physician if fell uncomfortable. r for at least 15 minutes and consult a	system. 6. Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures 1) Avoid breathing vapors and contacting with skin and eye. 2) Beware of vapours accumulating to form explosive concentrations.
General advice; Im the doctor in attendance. Skin contact: Durin off with plenty of water if a Eye contact: Rins Physician if fell uncomfor Inhalation: Under r decomposition products; oxygen. Do not use mout breathing, give artificial r Intake: Do not indu a physician or Poison Con Protecting of first-a Ensure that medical themselves and prevent sp al. 24 Most important sym 1.) Substance accum (following repeated or la 4.3 Indication of any im 1.) Treat symptomat 2.3 Symptoms may b	superduction, take or at least 15 minu e thoroughly with trable. e thoroughly with trable. e thoroughly with trable. e thoroughly with thore contingent of the trans- tering of the transformation of the sepiration and con- tering the transformation of the transformation of the transformation of the transformation personnel are awar pread of containing the transformation of the transformation of	off contaminat tes and consult a plenty of wate fore victim intri- itation if victim sult a physician or give anything diately. re of the substar- tion. , both acute an uman body, ma- onal exposure.	ed clothing and aboes immediately. Wash physician if fell uncomfortable. If for at least 15 minutes and consult a se effects will occur. If contact with o fresh air. If breating is difficult, give ingested or inhaled the substance. If not immediately. by mouth to an unconscious person. Call nece involved. Take precautions to protect d delayed y occur and may cause some concern	 6. Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures 1) Avoid breathing vapors and contacting with skin and eye.
General advice: Im the doctor in attendance. Skin contact: Durin off with plenty of water fa Eye contact: Rins Inhalation: Under r decomposition products, oxygen. De not use mout breathing, give artificial r Intake: Do not indu a physician or Poisson Con Protecting of first-a Ensure that medical themselves and prevent sy 4.2 Most important sym 1) Substance accum (1) Substance accum 1) Trates symptomat 1) Trates symptomat	superduction, take or at least 15 minu e thoroughly with trable. e thoroughly with trable. e thoroughly with trable. e thoroughly with thore contingent of the trans- tering of the transformation of the sepiration and con- tering the transformation of the transformation of the transformation of the transformation personnel are awar pread of containing the transformation of the transformation of	off contaminat tes and consult a plenty of wate fore victim intri- itation if victim sult a physician or give anything diately. re of the substar- tion. , both acute an uman body, ma- onal exposure.	ed clothing and aboes immediately. Wash physician if fell uncomfortable. If for at least 15 minutes and consult a se effects will occur. If contact with o fresh air. If breating is difficult, give ingested or inhaled the substance. If not immediately. by mouth to an unconscious person. Call nece involved. Take precautions to protect d delayed y occur and may cause some concern	 6. Accidental release measures 6. Accidental release measures 1) Avoid breathing vapors and contacting with skin and eye. 2) Beware of vapours accumulating to form explosive concentations. 3) Vapours can accumulate in low areas. 4) Energency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves. 5) Ensure adequate ventilation. Remove all sources of ginition. 6) Execute personnel to self-areas. Keep protective quipment. Avoid breathing vapours, mist, gas or dust. 6. Zenvironmental precautions 1) Prevent further leakage or spillage if safe to do so. 2)Discharge into the environment must be avoided. 6.3Methods and materials for containment and cleaning up 1) Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding. 2) Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. 3) Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
General advice; Im the doctor in attendance. Skin contact: Durin off with plenty of water for Eye contact : Rins physician if fell uncomfor Inhalation: Under r decomposition products, oxygen. Do not tuse mout breathing, give artificial r Intake: Do not indu physician of Poison Co Protecting of first-a Ensure that medical themselves and prevent sy 1.3 Substance accur following repeated or 1 (3) Intent symptomat (2) Straffighting meat (3) Extinguishing media	amediate medical a up production, take or at least 15 minu table. te thoroughly with trable. the to mouth resuse espiration and con the to mouth resuse espiration and con the to mouth resuse espiration and con- time the table of the table the table of the table of the personnel are away personnel are away per	c) of contaminat tes and consult a plenty of wate tions, no advey Arove victim intritation if victim sult a physician sult a physician sult a physician sult a physician tion. re of the substartion. A both acute an uman body, ma nal exposure. attention and sy	ed clothing and aboes immediately. Wash physician if fell uncomfortable. If for at least 15 minutes and consult a se effects will occur. If contact with o fresh air. If breating is difficult, give ingested or inhaled the substance. If not immediately. by mouth to an unconscious person. Call nece involved. Take precautions to protect d delayed y occur and may cause some concern	 6. Accidental release measures 6.1 Personal precations, protective equipment and emergency procedures 1) Avoid breathing vapors and contacting with skin and eye. 2) Beware of vapours accumulating to form explosive concentrations. 3) Vapours can accumulating to form explosive concentrations. 3) Vapours can accumulating to form explosive concentrations. 4) Emergency personal wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves. 5) Ensure adequate ventilation. Remove all sources of ignition. 6) Evacuate personal protective equipment. Avoid breathing vapours, mist gas or dust. 7) Use personal protective couplings if safe to do so. 2)Discharge into the environment must be avoided. 6.3Methods and materiabs for containment and cleaning up 1) Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding. 2) A blareed or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. 3) Remove all sources of ignition. Use spark-proof lools and explosion-proof equipment. 7, Handling and storage :

		ripping Agent			D.:T180817025A		TiTest Technology Co., Ltd.	Film-Stripping Ag	ent	SDS NO.:T180817025A
	ent fire caused by ele	ectrostatic discha	rge steam, equip	ment on all met	al parts should		2.GBZ/T 160.1-GBZ/T	160.81-2004 Determi	nation of toxic substa	nees in workplace air (Series
be grounded.							standard).			
	losion proof equipme					2	8.2 Engineering controls			
	g is performed in a w itable protective equi		ace.				1.Ensure adequate ventil	ation, especially in co	nfined areas.	
	ontact with skin and						2.Ensure that eyewash st			orkstation location.
	vay from heat/sparks		t surfaces				3.Use explosion-proof el			
	ecautionary measures						4.Set up emergency exit		mination area.	
7.2Precautions		5	-				8.3 Personal protection	equipment		
	a cool, ventilated wa						General requirement:			
Store te	mperature should not	t exceed 37 °C, a	way from fire an	d heat sources.						\frown
	e container sealed.							(\bigcirc)		
	be stored separately f			alogens, etc. Av	oid mixing.					
	losion-proof lighting					11 0				
	bidden to use mechan orage area should be									
suitable contain		e equipped with	leakage emerge	ncy treatment o	equipment and		Eye protection : Tightly 1	itting safety goggles (approved by EN 166(EU) or NIOSH (US).
							Hand protection : Wear n	rotective gloves (such	as butyl rubber), pa	ssing the tests according toEN
8、Exposure	controls/persona	l protection					374(EU),US F739 or AS/1			
8.1 Control Par	ameters								re exceeded or if irri	itation or other symptoms are
e t t Ossensti	nal exposure limits									on (US) or type AXBEK (EN
6.1.1 Occupatio										
							14387) respirator cartridge			
	xposure limit values							s.	istant/retardant clothi	ng and antistatic boots.
	xposure limit values		The ball	T	CL-11-		14387) respirator cartridge Skin and body protection Other protection: Smokir	s. : Wear fire/flame res		ng and antistatic boots. the job site. Maintain good
	xposure limit values Country/Region	Limit value	- Eight hours		e - Short term		14387) respirator cartridge Skin and body protection	s. : Wear fire/flame res		
Occupational E	Country/Region	Limit value ppm	mg/m3	ppm	mg/m3		14387) respirator cartridge Skin and body protection Other protection: Smokir	s. : Wear fire/flame res g, eating and drinki		
Occupational E	Country/Region - USA - OSHA	Limit value ppm Unspecified	mg/m3 Unspecified	ppm Unspecified	mg/m3 Unspecified		14387) respirator cartridge Skin and body protectior Other protection: Smokir hygiene habits. O, Physical and chen	s. : Wear fire/flame res g, eating and drinki ical properties :		
Occupational E	Country/Region - USA - OSHA South Korea	Limit value ppm Unspecified Unspecified	mg/m3 Unspecified Unspecified	ppm Unspecified Unspecified	mg/m3 Unspecified Unspecified		14387) respirator cartridge Skin and body protectior Other protection: Smokir hygiene habits. Physical and chen Appearance:No data avail	s. : Wear fire/flame res g, eating and drinki ical properties :		
Occupational E	Country/Region USA - OSHA South Korea Ireland	Limit value ppm Unspecified	mg/m3 Unspecified	ppm Unspecified	mg/m3 Unspecified Unspecified Unspecified		14387) respirator cartridge Skin and body protectior Other protection: Smokir hygiene habits. O, Physical and chen	 Wear fire/flame resign eating and drinki ating and drinki ating properties : 		
Occupational E	Country/Region - USA - OSHA South Korea	Limit value ppm Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified		14387) respirator cartridge Skin and body protection Other protection: Smokir aygiene habits. Dy Physical and chen Appearance:No data avail Ddor: Weak odor.	 s. Wear fire/flame regg, eating and drinkinical properties : able. able. 		
Occupational E Component	Country/Region USA - OSHA South Korea Ireland Germany (AGS)	Limit value ppm Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified		14387) respirator cartridge Skin and body protection Other protection: Smokir hygiene habits. Q. Physical and chen Appearance:No data avail Ddor: Weak odor. Ddor threshold: No data a	s. : Wear fire/flame ree g, eating and drinki iical properties : able. vailable. le.	ng are forbidden on	
Occupational E	Country/Region USA - OSHA South Korea Ireland Germany (AGS) Denmark	Limit value ppm Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified		14387) respirator cartridge Skin and body protection Other protection: Smokir nygiene habits. 0, Physical and chen yppearance: No data avail Ddor: Weak edor. Odor: Weak edor. Odor: threshold: No data a' Vilating point/freezing point/free	s. : Wear fire/flame ree g, eating and drinki nical properties : able. vailable. le. int (°C): No data ava oilling range (°C): N	ng are forbidden on ilable.	
Occupational E Component	Country/Region USA - OSHA South Korea Ireland Germany (AGS) Denmark Australia	Limit value ppm Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified		14387) respirator cartridge Skin and body protection Other protection: Smokir Nygiene habits. 20, Physical and cheen Appearance:No data availa Jobr: Weak color. Jobor threshold: No data a Jobri Meak color. Jobr freezing point/freezing point/ath Melting point/freezing point/ath Sash point (closed cup, °	s. : Wear fire/flame rei g, eating and drinki ical properties : able. vailable. le. int (°C): No data ava ioiling range (°C): N O;No data available.	ng are forbidden on ilable.	
Occupational E Component	Country/Region USA - OSHA South Korea Ireland Germany (AGS) Denmark Australia South Korea Ireland Germany (AGS)	Limit value ppm Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified		(14387) respirator cartridge Skin and body protection Dther protection: Smokir Nygiene habits. Q. Physical and chen peparanee: No data avail Mor: Weak odor: Mor threshold: No data avail Mor threshold: No data availa Mor threshold: No data availa Mor threshold: No data availa Mor threshold: No data availa Mor threshold: No data availa Mort met availat availation of the second Mort availation of the second second Plash point (closed cup.")	s. : Wear fire/flame res g, eating and drinki ical properties : able. vailable. le. init (°C): No data avai oiling range (°C): N C): No data available.	ng are forbidden on ilable.	
Occupational E Component	Country/Region USA - OSHA South Korea Ireland Germany (AGS) Denmark Australia South Korea Ireland Germany (AGS) Denmark	Limit value ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified		14387) respirator cartiloge Skin and body protection Other protection: Smokir nygiene habits. O, Physical and chen Appearance:No data availa Odor: Weak odor. Odor threshold: No data (Odor threshold: No data (Ather and the short of the short Odor threshold: No data (Odor threshold: No data (Ather and the short of the short Odor threshold: No data (Ather and the short of the short Odor the short of the short of the short No data (State and the short of the short of the short of the short of the short of the short of the short of the short of the short of the short of the short of the short of the short of the short	s. : Wear fire/flame rer g, eating and drinki lical properties : able. vailable. le. int (°C): No data available. (available.	ng are forbidden on ilable. o data available.	
Occupational E Component	Country/Region USA - OSHA South Korea Ireland Germany (AGS) Denmark Australia South Korea Ireland Germany (AGS)	Limit value ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified		14387) respirator cartridge Skin and body protection Other protection: Smokir nygiene habits. 0 , Physical and chem Appearance: No data avail Mor: Weak odor: Mort hreshold: No data (Hi value: No data availa Mort increshold: No data (Hi value: No data availa Heiting point/freezing po- nitial boiling point and 1 Tash point (closed cup.¹⁰) Supportion rate: No data Tammability (solid or gg Splosion upperflower lin	s. : Wear fire/flame rer g, eating and drinki iical properties : able. vailable. int (°C): No data available. available. available. available. available. s): No data available. (*): No data available.	ng are forbidden on ilable. o data available.	
All components	Country/Region USA - OSHA South Korea Ireland Germany (AGS) Denmark Australia South Korea Ireland Germany (AGS) Denmark Australia	Limit value ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified		14387) respirator cartridge Skin and body protection Dther protection: Smokir Nygiene habits. O, Physical and chen hypearance:No data avail Jdor: Weak odor. Jdor threshold: No data a' H value: No data availab Melting point/freezing po initial boiling point and H Tash point (closed cup., o Yanporation rate: No data 'lammability (solid or ga Sxplosion upper/lower li	s. : Wear fire/flame ree g. eating and drinki isical properties : able. wailable. le. int (°C): No data available. oling range (°C): N Cy:No data available. sy: No data available. int (°S(v)): No data data available. hit (°S(v)): No data	ng are forbidden on ilable. o data available.	
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Occupational E Component All components 8.1.2Biological in Biological in	Country/Region USA - OSHA South Korea Ireland Germany (AGS) Denmark Australia South Korea Ireland Germany (AGS) Denmark Australia Umit values it values; No inform	Limit value ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified		14387) respirator cartridge Skin and body protection Dther protection: Smokir Nygiene habits. O, Physical and chen Nypearance:No data avail Mor: Weak odor: Jhor threshok!: No data (PH value: No data availab Molting point (freezing po Jhor threshok!: No data "Iash point (closed cup,") zuporation rate: No data "Iammability (solid or ga zuplosion upper/lower lin 'apor pressure (kPa): Nc 'apor density (air = 1): N	s. : Wear fire/flame rec g. eating and drinki itical properties : able. valiable. le. int (°C): No data available. of that available. of data available. of data available. of data available.	ng are forbidden on llable. o data available. available.	
All Component All Components Biological Biological Biological	Country/Region USA - OSHA South Korea Ireland Germary (AGS) Denmark Australia South Korea Ireland Germary (AGS) Denmark Australia iti values iti values: No inform gmethods	Limit value ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified		14387) respirator cartridge Skin and body protection Other protection: Smokir Nygiene habits. A, Physical and chen Hypearance:No data avail Odor threshold: No data i Hi value: No data availa Odor threshold: No data i Hi value: No data availa Udor threshold: No data i Hi value: No data availa Udor threshold: No data i Hi value: No data availa Heiting point (freezing po initial boiling point and H I annability (solid or ga Explosion upperlower lin apor pressure (kPa) :No. Relative density (water = biblility (mgl): No data	s. : Wear fire/flame re- g, eating and drinki ical properties : able. vailable. le. int (°C): No data available. available. o that available. o that available. D: No data available. D: No data available. D: No data available.	ng are forbidden on lable. 9 data available. available.	
All component All components B.1.2Biological Biological lin B.1.3 Monitorin 1.EN 1402	Country/Region USA - OSHA South Korea Ireland Germany (AGS) Denmark Australia South Korea Ireland Germany (AGS) Denmark Australia Matralia Suth Korea Ireland Germany (AGS) Denmark Australia Suth Korea Inteland Germany (AGS) Denmark Australia Matralia Suth Korea Inteland Germany (AGS) Denmark Australia Inteland Germany (AGS) Denmark Australia Inteland Germany (AGS) Denmark Australia Inteland Germany (AGS) Denmark Australia Inteland Germany (AGS) Denmark Inteland Germany (AGS) Denmark Australia Inteland Germany (AGS) Denmark Australia Inteland Germany (AGS) Denmark Inteland Germany (Inteland Germany (Intelan	Limit value ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified unspecified et unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified		14387) respirator cartridge Skin and body protection Dther protection: Smokir Nygiene habtis. O, Physical and chen A, Physical A, Physical A, Physical A, Physical A, Physical A, Physical A, Physical A, Physical A, Physical A, Ph	s. : Wear fire/flame re- g, eating and drinki itical properties : able. vailable. le. int (°C): No data avai officer (°C): No data available. o data available. o data available. i): No data available. available. cofficient: No data available. available.	ng are forbidden on llable. o data available. available.	
All component All components B.1.2Biological Biological lin B.1.3 Monitorin 1.EN 1402	Country/Region USA - OSHA South Korea Ireland Germary (AGS) Denmark Australia South Korea Ireland Germary (AGS) Denmark Australia iti values iti values iti values	Limit value ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified unspecified et unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified		14387) respirator cartridge Skin and body protection Other protection: Smokir Nygiene habits. A, Physical and chen Hypearance:No data avail Odor threshold: No data i Hi value: No data availa Odor threshold: No data i Hi value: No data availa Udor threshold: No data i Hi value: No data availa Udor threshold: No data i Hi value: No data availa Heiting point (freezing po initial boiling point and H I annability (solid or ga Explosion upperlower lin apor pressure (kPa) :No. Relative density (water = biblility (mgl): No data	s. : Wear fire/flame re- g, eating and drinki itical properties : able. vailable. le. int (°C): No data avai officer (°C): No data available. o data available. o data available. i): No data available. available. cofficient: No data available. available.	ng are forbidden on llable. o data available. available.	
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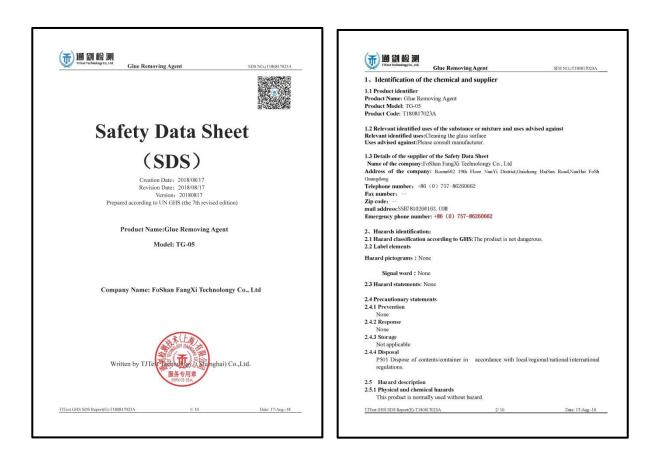
TH N	st Technology	Co., Ltd.	Film-	Strippi	ng Age	nt		SD	S NO.:T18	0817025A	通 量 检 测 Tifest Technology Ea. Ltd.	Film-Strip	ping Agent		SDS NO.:T180817025A
Decompo				: Not av	ailable.										
Viscosity Others: 1											12.2 Chronic aquatic to				
											12.2 Chronic aquatic to	ticity			
10. Stał	ility an	d React	ivity:								Component	Fish	6	Crustaceans	Algae
	y: Conta	et with	incom	patible	materia	als can caus	e decompos	sition o	r other	chemical	All components	No data ava	ailable. 1	lo data available.	No data available.
reactions.		0.11	1.0			itions of use									
Possibilit							and storage.				12.3 Others				
						ic electricity,	heat, humid	ity, etc.			Component Pe	rsistence and	Bioaccumula	tion Soil mobility	v Evaluation of
						cids, strong b	ases.					egradability	or	uon son moonny	PBT
Hazardo	is decon	position	produ	cts: No	data av	ailable.						5	bioaccumula	tion	and vPvB results
11. Toxi	cologic	al inform	natio	n:							All components	No data	No data	No data	No data
11.1 Acu	e toxicit											available.	available	available.	available.
	8										100 100 NO 100	1.1			
	ompone			D ₅₀ (oral		LD ₅₀ (Trans			(inhalati		13、Disposal consid	erations			
All	compone	nts	INO da	ıta avail	abie	No data a	ivailable	INO	data ava	nable	Disposal considerations				
11.2 Care	inogenia	ity:									Waste chemicals: If you				
ing cur	mogenne	ny.									Contaminated packaging				
	Compo	nent			IA	RC		N	TP		emptied. Keep away from recycling.	n heat and sour	ces of ignition	. If possible, recycle	them to the supplier for
	All comp	onents			Not	Listed		Not	Listed		Disposal considerations	Refer to the "	Disposal" secti	on.	
11.3 Oth											14, Transportatio	informatio	n:		
11.5 Offi	18														
	Corro	Serio	Skin	Resp	Repr	Specific	Specific	Aspi	Germ	Repro	United Nations Danger UN proper shipping na		nder (UN No.)	: The product is not a	angerous.
	sive	us eye	sensi	irator	oduc	target	target	ratio	cell	ducti	UN Risk Classification:				
Compo	skin/	dama	tizati	у	tive	organ	organ	n	mutag	ve	Packing Category: No	ne			
nent	irritat	ge/irri tation	on	sensi tizati	toxic	toxicity -	toxicity -	haza	enicit	toxici	Packaging label: None				
	ion	tation		on	ity	single exposure	repeated	rd	у	ty	Marine Pollutants (Yes/				
				on		exposure	exposure				Packing method: Pack a				
	No	No	No	No	No	No data	No data	No	No	No	Ampoule bottle outside plastic bottles or metal di				fron fids, glass bottles,
10.00	data	data	data	data	data	available.	available.	data	data	data	Transportation Note: 1				acids, alkalis, oxidants
All	avail		avail	avail	avail			avail	availa	availa	foods and food additives				
compo	able.	ble.	able.	able.	able.			able.	ble.	ble.	fire-retardant device, wh				
	ogical i	nforma	tion:								sparks. Avoid exposure,				
compo nents											transportation shall have			ble partition may be	arranged in the tank to
compo		atic toxi	city								reduce the static electrici			dente acida dende a	and the distance of the
compo nents	ite aqu		2	Fish		Crust	accans		Algae		It is strictly prohibited t strictly forbidden to use				
compo nents 12. Ecol 12.1 Act	<u> </u>		No da	ta avail	able.	No data :		No	data avai	lable.	rain, and high temperatu				
compo nents 12. Ecol 12.1 Act	mponent omponent	Its				La construction of the					tuni, and high temperatu	e annig unitsp	crancel, fruit	Portation . enteres she	in or equipped with me
compo nents 12. Ecol 12.1 Act	mponent	its													

transportatio relevant tran	tefore shipping		onse treatme the packagi	ng containe	r is comple	te and seal	types and led. On the	DNEL - Derived No Effect Level DNEL - Derived No Effect Level RFE - Respiratory Proteive Equipment LC50 - Lethal Concentration 50% NDEC -No Observed Effect Concentration PBT - Persistent, Bioaccumulative, Toxic BCF - Bioconcentration factor (BCF) IMDO-International Maritime Dangerous Goods NFPA-National Fire Protection Association CMR - Carcinogens, mutagens or substances toxic to reproduction
	al chemical i							PC-TWA - Time Weighted AverageIARC - International Agency for Research on Cancer PNECPredicted No Effect Concentration LD50 - Lethal Dose 50% ECS0 - Effective Concentration 50%
Component	EINECS 7	ISCA DSL	IECSC	NZIoC	PICCS	KECI	AICS	POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative
Nonionic surfactant		Not Not isted Lister	Listed	Not Listed	Not Listed	Listed	Not Listed	ICAO/IATA-International Civil Aviation Organization/International Air Transportation Association ACGIH-American Conference of Governmental Industrial Hygienists OECD-Organization for Economic Co-operation and Development
Sodium	Listed L	isted Lister	Listed	Listed	Listed	Listed	Listed	2)Disclaimer
hydroxide Others	N. A	N. A N. A	N. A	N. A	N. A	N. A	N. A	This Safety Data Sheet (SDS) was prepared according to UN GHS (the 7th revised edition). The data included was derived from international authoritative database and provided by the
	Philippines Ir	Inventory of Cl		emical Sub	stances			
16.1 Refer	rence :	tional Cher		ıfety C	ards ((ICSC)	,website:	Pie Affe all
[2]IARC, v	vebsite: http://	www.iarc.fr/.						
http://www.e	echemportal.or	l Portal to rg/echemportal/i	ndex?pageID	-0&request	locale-en.		website:	*************************************
[5]NLM:Ch [6]EPA: Inte [7]U.S. Dep	emIDplus, wel grated Risk In artment of Tra	ebsite: http://can bsite: http://chen fformation Syste nsportation:ERC base on hazard s	n.sis.nlm.nih.; m, website: h i, website: htt	gov/chemid ttp://cfpub.e p://www.ph	plus/chemio pa.gov/iris msa.dot.go	dlite.jsp. /. v/hazmat/li	ibrary/erg.	SDS Creation Date: 2018/08/17(valid for one year)
16.2 Other 1)Abbrevia	rs: tions and acro nical Abstracts		PC-	STEL- Shor	t term expo	sure limit		
CAS -Chem						Date		TJTest GHS SDS Report(E)-T180817025A 10/ 10 Date: 17-Aug18

Individuals should pay attention to m	natters : Avoid slipping			TwlfthEcological	data :	
Environmental matters needing atten	tion : Not to be dumped in drains, s	ewers, water sources		Environmental as	sessment : Avoid discharge in	nto sewers, water sources
Cleaning method : Adsorption with i	nert absorbent for removal of the mos	st effective method		biodegradable	owing liquid, soluble in water	*Persistence and decomposition :Organic ingredients,
Seventh. Safe disposal and storage						ected to have biological accumulation * Ecological toxicity : 1
disposal : Avoid skin and repeated lo	ong-term exposure, to avoid inhaling t	the mist		Thirteenth. Waste	e disposal method :	
storage : To avoid freezing, direct su	inlight, in the cold and dry and well w	entilated environment, when a	not in use to			
cover tight lid					all be in compliance with local	
						ace through the local legal waste contractor
Eighth. Exposure prevention meas	sures :					a licensed place through a local legal waste contractor the local legal waste contractor, and can also be cleaned and
engineering control : Ventilation equ	ipment, mechanical way to avoid oil	exposure, more important that	an personal	recycled by evapo		ure rocar regar waste contractor, and can also be creaned and
protection					portation data :	
Control parameters :		-lloughle concentration / mo	avinum.	Tourteentn. Transj	portation uata	
* Eight hours hourly average allowar allowable concentration (oil mist, ve	ble concentration / short time average	allowable concentration / ma	aximum	Tutomational trans	most excelations . This meadow	t is not classified as a transportation risk
* Biological index :	Seraore on) opping tobbin			United Nations nu		r is not classified as a transportation risk
Personal protective equipment :					rt regulations : No	
*Respiratory protection : mask	*Hand protecti	ion : PVC gloves			methods and matters needing at	ttention : No
*Eve protection : Safety glasses		ly protection : Plastic apron			tory information :	
health measure : Clothes need to be	cleaned before using contaminated cl	othing		inteenin regum		
ninth. Physical and chemical prop	erties :		-	Applicable laws a	and regulations -	
Material state : transparent liquid	shape:transparent liquid	clour : colourles	SS	In the UK supply,	, this product is not classified as amework Waste Directive 91	
smell ; Pale taste	boiling range : about 290°C	pH : 5.2			nt : Health & Safety at Work	
Decomposition temperature :	Flash point : 176°C				Environmental Protection A	
N/A	Test method : Op		clsoe cup:		Occupational exposure limits	
Natural temprature : N/A	explosion limit : N/A	vapour pressure : <1mr	mHg 25 C		Save You skin - Occupationa Dermatitis - Cautionary no	al contact Dermatitis [MS (B) 6]
	Junior share 1 262 2092		or		lications can be obtained from l	
vapour density : N/A	density: about 1.263 20°C	solubility complete wat	er	Sixteenth other d		Intro- V hou
Tenth. Stability and reactivity :				Sixteenin other d	ala ·	
Stability : Under normal circums				Trees 11	Name Claims C	Holdings I ed
Possible adverse reactions under sp	pecial conditions : No	DDG G		Issue d by	Name: Glorious Success	Holdings Ltd. iee House, 11Duddell Steet Central Hong Kong SAR
	sun, the temperature is higher than 35	5 DEG C				
Substances to be avoided : Strong	oxidizing agent			prepared	title : Technical director	name (sign) : huangxisheng
Hazardous decomposition : No	For and on behalf of	1		Date	2017.01.10	
Eleventh. Toxicity data :	GLORIOUS SUCCI	ESS HOLDINGS LIMITED				
LD50(rabbit) 2000mg/k	ticity, based on similar products, oral		kin : inhale—May			For red on least of GLOWOUS SUCCESS, HOLDINGS LIMITED
swallow-May stin	anes and upper respiratory tract, espec nulate the mouth, esophagus and stom	cially heat or smoke	and they			Autorised Signature()
Chronic or chronic toxicity : The	e long-term or repeated contact may c	ause skin irritation				

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Tillest Technology En., Ltd.	Glue Removi	ng Agent	SDS NO.:T180	0817023A	Tiffest Techno	Glue Remov		SDS NO.:T180817023A
2.5.2 Health hazards This product is norma 2.5.3 Environmental haz Please refer to 12th e 3. Composition/info Substance Prepatio: Composition:	ards hapter of SDS. rmation on ing				fire. 5.2 Specific hat 1) Will fo 2) Fire ex fire intensity an 3) Vapour 4) Liquid	ards arising from the sul rm explosive mixtures with	bstance or mixture h air. t contents through pressure r mition and flash back.	eam as it may scatter or spread
Component	CAS No.	EC No.	Concentration (weight perce	ent, %)		ters may explode when her		
Potassium hydroxide	1310-58-3		15				contents through pressure r	
N. 0	1310=36=3	215-181-3			 8) May es 5.3 Advice for fi 		plosively when heated or inv	olved in fire.
Surfactant			5				ed breathing apparatus (1	MSHA/NIOSH approved or
Additive			80		equivalent) and	ull protective gear.		
4. First aid measure	•					from a safe distance, with		
	-				3)Prevent system.	hre extinguishing water	from contaminating surfac	e water or the ground water
he doctor in attendance.	mediate medical a		red. Show this safety data sheet (1	6, Accident	al release measures	inment and emergency pr	ocedures
General advice: Im the doctor in attendance. Skin contact: During off with plenty of water fo Eye contact: Rinss hysician if fell uncemfor Inhalation: Under n decomposition products, soygen. Do not use mout oreathing, give artificial r Intake: Do not indus a physician or Poisson Com Protecting of first-a Ensure that medical plemselves and prevent sp following repeated or lo 1.3 Indication of any im 1.1 Treat symptomati 2.2 Symptoms may b	mediate medical a g production, take r at least 15 minu t thoroughly with table. I thoroughly with table. I to mouth resuse spiration and con evomiting. Neve trol Center immediate ders: usersonnel are awa read of contamin tooms and effects uulation, in the h mediate medical is cally. e delayed.	e off contaminati tes and consult a plenty of wate tions, no adver dove victim intri- titation if victim sult a physician of the substan- tion. , both acute an uman body, ma- onal exposure.	ed clothing and shoes immediate physician if fell uncomfortable. r for at least 15 minutes and e se effects will occur. If contri- fisch air, IF breathing is diffic ingested or inhaled the substanc immediately. by mouth to an unconscious pers- ce involved. Take precautions to d delayed y occur and may cause some e	dy. Wash consult a act with sult, give e. If not son. Call p protect	 Accident. Personal pr 1) Avoid Bewar Bewar Vapour 4) Emery protective and a 5) Ensure 6) Evacus 7) Use pe Environme 1) Provent 2)Discharg 6.3Methods an 1) Absord contain a spill b 2) Adhe appropriate law 3) Remov 	exautions, protective equ preathing vapors and conta yeave, personnel wear poo ini-static clothing. Wear el adequate ventilation. Rem the personnel to safe areas, sosnal protective equipmer tal precatules or spillage urther leakage or spillage into the environment mu d materials for containm o spilled material in dry sa y bunding.	to form explosive concentra reas. silve pressure self-contain nemical impermeable gloves over all sources of ignition. Keep people away from and at. Avoid breathing vapours, if safe to do so, at be avoided. ent and cleaning up nd or inert absorbent. In ca	tions. ed breathing apparatus. Wear 1 upwind of spill leak. mist, gas or dust. se of large amount of spillage, osed of, in accordance with
General advice: Im the doctor in attendance. Skin contact Durin off with plenty of water for Eye contact 1. Rinse Physician if fell uncomfor Inhalation: Under in decomposition products, jo vygen. Do not use mout reathing, give artificial ir Intake. Do not indus a physician or Poisson Con Protecting of first-ai Ensare that medical hemselves and prevent sp 1.2 Most important symp 1.3 Indication of any im 1.3 Tratistary exponential 1.3 Indication of any im	mediate medical a g production, take r at least 15 minu t thoroughly with table. I thoroughly with table. I to mouth resuse spiration and con evomiting. Neve trol Center immediate ders: usersonnel are awa read of contamin tooms and effects uulation, in the h mediate medical is cally. e delayed.	e off contaminati tes and consult a plenty of wate tions, no adver dove victim intri- titation if victim sult a physician of the substan- tion. , both acute an uman body, ma- onal exposure.	ed clothing and shoes immediate physician if fell uncomfortable. r for at least 15 minutes and e se effects will occur. If contri- fisch air, IF breathing is diffic ingested or inhaled the substanc immediately. by mouth to an unconscious pers- ce involved. Take precautions to d delayed y occur and may cause some e	dy. Wash consult a act with sult, give e. If not son. Call p protect	 Accident. Personal pr 1) Avoid Bewar Bewar Vapour 4) Emery protective and a 5) Ensure 6) Evacus 7) Use pe Environme 1) Provent 2)Discharg 6.3Methods an 1) Absord contain a spill b 2) Adhe appropriate law 3) Remov 	reautions, protective equ recathing vapors and conta of vapours accumulating s can accumulate in low ar gency personnel wear unit instatuic clothing. Wear et adequate ventilation. Rem the personnel to safe areas. snotal protective equipment in the leakage or spillage i e into the environment mu d materials for contaiann spilled material in dry sa y bunding. red or collected material s and regulations. and regulations.	tering with skin and eye. to form explosive concentra reas. slitve pressure self-contain menical impermeable gloves over all sources of ignition. Keep people away from and at. Avoid breathing vapours, if suft to do so, as the avoided. tent and cleaning up and or inert absorbent. In ca should be promptly disp	tions. ed breathing apparatus. Wear 1 upwind of spill leak. mist, gas or dust. se of large amount of spillage, osed of, in accordance with
General advice: Im the doctor in attendance. Skin contact: During off with plenty of water for Eye contact: Rinss physician if fell uncomfor Inhalation:Under n decomposition products, soxygen. Do not use moul oreathing, give autificial re- tractive of the sta- entities of the sta- entities of the sta- lensure that medical hemselves and prevent sp 1.2 Most important symp 1.3 ubstance accum following repeated or lo 1.3 undication of any im 1.3 Treat symptomat 2.5, Stirefighting meas 5.1 Extinguishing media	mediate medical a g production, takk at at least 15 minu thoroughly with table. ormal use condi- minitation occurs. No to mouth resuses printation and com- genitation and the distribution of the the resonnel are avant read of contamining. New toto Center imme- distribution, in the he- resonnel are avant read of contamining. New toto and effect- alitation, in the he- ng-term occupatin distribution. The he- ng-term occupatin- diate mediate mediate mediate and the set of	off contamination of water of the second	ed clothing and shoes immediate physician if fell uncomfortable. r for at least 15 minutes and e se effects will occur. If contri- fisch air, IF breathing is diffic ingested or inhaled the substanc immediately. by mouth to an unconscious pers- ce involved. Take precautions to d delayed y occur and may cause some e	dy. Wash consult a act with ault, give se. If not son. Call o protect concern	 6. Accident. 6.1 Personal pr 1) Avoid I 2) Bewar 3) Vapour 4) Emerg protective and a 5) Ensure 6) Evacua 7) Use per 6.2 Environme 1)Prevent 1) Oxional 6.3Methods an 1) A Abaot contain a spill b 2) Adhet a) Remov 7. Handling 7.1 Precaution 1) Avoid I 	reautions, protective equ recathing vapors and conta of vapours accumulating s can accumulate in low ar gency personnel wear unit instatuic clothing. Wear et adequate ventilation. Rem the personnel to safe areas. snotal protective equipment in the leakage or spillage i e into the environment mu d materials for contaiann spilled material in dry sa y bunding. red or collected material s and regulations. and regulations.	tering with skin and eye. to form explosive concentra reas. slitve pressure self-contain menical impermeable gloves over all sources of ignition. Keep people away from and at. Avoid breathing vapours, if suft to do so, as the avoided. tent and cleaning up and or inert absorbent. In ca should be promptly disp	tions. ed breathing apparatus. Wear 1 upwind of spill leak. mist, gas or dust. se of large amount of spillage, osed of, in accordance with

		emoving Agent			O.:T180817023A	4	Tillest Technology Eo., Ltd.	Glue Removing Ag	gent	SDS NO.:T1808170
	ent fire caused by ele	ectrostatic discha	irge steam, equip	ment on all met	al parts should		2.GBZ/T 160.1-GBZ/T	160.81-2004 Determin	nation of toxic substar	nees in workplace air (Se
be grounded.		92.0					standard).			
	plosion proof equipm					8.	2 Engineering controls			
	ig is performed in a v		ace.				1.Ensure adequate ventil	ation, especially in con	nfined areas.	
	itable protective equ						2.Ensure that eyewash st	ations and safety show	ers are close to the we	orkstation location.
	ontact with skin and way from heat/sparks		t surfages				3.Use explosion-proof el	ectrical/ventilating/light	hting/equipment.	
	ecautionary measures						4.Set up emergency exit		nination area.	
7.2Precautions		s against statte ut	sonarges.				.3 Personal protection	equipment		
	a cool, ventilated wa	rehouse				G	eneral requirement:			
	mperature should not		way from fire an	d heat sources						
	e container sealed.					/	A 12	(a)		
	be stored separately	from oxidants, re	ducing agents, ha	alogens, etc. Av	oid mixing.	(
	olosion-proof lighting				1000 CT 200 CT 200 M CT		YY/			BILL
6) It is for	bidden to use mechar	ical equipment a	and tools that easi	ily produce spar	ks.					
	orage area should be	e equipped with	leakage emerger	ncy treatment of	equipment and				IL DUICCO	
suitable containr	ment materials.						ye protection : Tightly I			
		I montanting				н			as butyl rubber), pas	ssing the tests according to
8, Exposure	controls/persona	1 protection								
	controls/persona	a protection				303	74(EU),US F739 or AS/N			
8.1 Control Par	ameters	a protection				R	espiratory protection :	If exposure limits ar		tation or other symptoms
8.1 Control Par		a protection				R	espiratory protection : perienced, use a full- fa	If exposure limits ar ce respirator with mul		tation or other symptoms on (US) or type AXBEK
8.1 Control Par 8.1.1 Occupatio	rameters onal exposure limits	•				R er 14	espiratory protection : perienced, use a full- fa (387) respirator cartridge	If exposure limits ar ce respirator with mul s.	lti-purpose combinatio	on (US) or type AXBEK
8.1 Control Par 8.1.1 Occupatio	ameters	•				R ev 14 S	espiratory protection : perienced, use a full- fa (387) respirator cartridge kin and body protection	If exposure limits ar ce respirator with mul s. : Wear fire/flame resi	lti-purpose combinatio	on (US) or type AXBEK
8.1 Control Par 8.1.1 Occupatio Occupational E	rameters onal exposure limits Exposure limit values	3	s - Fieht hours	Limit valu	e - Short term	R ev 1- S O	espiratory protection : sperienced, use a full- fa (387) respirator cartridge kin and body protection ther protection: Smokir	If exposure limits ar ce respirator with mul s. : Wear fire/flame resi	lti-purpose combinatio	on (US) or type AXBEK
8.1 Control Par 8.1.1 Occupatio	rameters onal exposure limits	s Limit value	e - Eight hours mg/m3		e - Short term mg/m3	R 01 14 00 hy	espiratory protection : perienced, use a full- fa (387) respirator cartridge kin and body protection ther protection: Smokin rgiene habits.	If exposure limits ar ce respirator with mul s. : Wear fire/flame resi g, eating and drinkin	lti-purpose combinatio	on (US) or type AXBEK
8.1 Control Par 8.1.1 Occupatio Occupational E	ameters onal exposure limits (xposure limit value) Country/Region	s Limit value ppm	mg/m3	ppm	mg/m3	R 01 14 00 hy	espiratory protection : sperienced, use a full- fa (387) respirator cartridge kin and body protection ther protection: Smokir	If exposure limits ar ce respirator with mul s. : Wear fire/flame resi g, eating and drinkin	lti-purpose combinatio	on (US) or type AXBEK
8.1 Control Par 8.1.1 Occupatio Occupational E	ameters nal exposure limits xposure limit values Country/Region USA - OSHA	Limit value ppm Unspecified	mg/m3 Unspecified	ppm Unspecified	mg/m3 Unspecified	R er 14 S O by 9,	espiratory protection : sperienced, use a full- fa 1387) respirator cartridge sin and body protection ther protection: Smokir ogiene habits. Physical and chem	If exposure limits ar ce respirator with mul s. : Wear fire/flame resi g, eating and drinkin	lti-purpose combinatio	on (US) or type AXBEK
8.1 Control Par 8.1.1 Occupatio Occupational E	ameters onal exposure limits (xposure limit value) Country/Region	Limit value ppm Unspecified Unspecified	mg/m3 Unspecified Unspecified	ppm Unspecified Unspecified	mg/m3 Unspecified Unspecified	R er 14 S O hy 9 A	espiratory protection : sperienced, use a full- fa 1387) respirator cartridge kin and body protection ther protection: Smokir agiene habits. Physical and chem opearance: Yellow Oil	If exposure limits ar ce respirator with mul s. : Wear fire/flame resi g, eating and drinkin	lti-purpose combinatio	on (US) or type AXBEK
8.1 Control Par 8.1.1 Occupatio Occupational E	ameters nal exposure limits (xposure limit value) Country/Region USA - OSHA South Korea Ireland	Limit value ppm Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified	ppm Unspecified	mg/m3 Unspecified	R 9 0 0 0 0 0 0 0 0 0 0 0	espiratory protection : sperienced, use a full- fa 1387) respirator cartridge sin and body protection ther protection: Smokir ogiene habits. Physical and chem	If exposure limits ar ce respirator with mul s. : Wear fire/flame resi g, eating and drinkin iical properties :	lti-purpose combinatio	on (US) or type AXBEK
8.1 Control Par 8.1.1 Occupatio Occupational E Component	ameters nal exposure limits xposure limit values Country/Region USA - OSHA South Korea	Limit value ppm Unspecified Unspecified	mg/m3 Unspecified Unspecified	ppm Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified	R er S O b b 9, 4, O O O O O O	espiratory protection : sperienced, use a full- fa (387) respirator cartridge (kin and body protection ther protection: Smokin giene habits. Physical and chem opearance: Yellow Oil dor: Weak odor.	If exposure limits ar ce respirator with mul s. : Wear fire/flame resi g, eating and drinkin iical properties :	lti-purpose combinatio	on (US) or type AXBEK
8.1 Control Par 8.1.1 Occupation Occupational E Component	ameters anal exposure limits exposure limit values Country/Region USA - OSHA South Korea Ireland Germany (AGS) Denmark	Limit value ppm Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified	R 60 14 50 00 14 9, 04 00 00 00 00 00	espiratory protection : sperienced, use a full-fail (1887) respirator cartridge kin and body protection ther protection: Smokir ggiene habits. Physical and chem Deparance: Yellow Oil dor: Weak odor. dor threshold: No data a J value : 13.	If exposure limits ar ce respirator with mul s. : Wear fire/flame resi g, eating and drinkin tical properties : wailable.	lti-purpose combinatie istant/retardant clothir 19. are forbidden on	on (US) or type AXBEK
8.1 Control Par 8.1.1 Occupatio Occupational E Component	ameters nal exposure limits exposure limit values Country/Region USA - OSHA South Korea Ireland Germany (AGS) Denmark Australia	Limit value ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified	В В В В В В В В В В В В В В В В В В В	espiratory protection : perienced, use a full-fail (1387) respirator cartridge (sin and body protection ther protection: Smokin giene habits. Physical and chen opearance: Yellow Oil dor: Weak odor. Joer threshold: No data a	If exposure limits ar ce respirator with mul s. : Wear fire/flame resi g, eating and drinkin ical properties : vailable. int (°C): No data avail	lti-purpose combinatie istant/retardant clothir 1g are forbidden on lable.	on (US) or type AXBEK
8.1 Control Par 8.1.1 Occupation Occupational E Component	ameters anal exposure limits exposure limit values Country/Region USA - OSHA South Korea Ireland Germany (AGS) Denmark	Limit value ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	R 8 11 5 3 0 15 15 9 , 4 0 0 0 9 , 10 11 11 11	espiratory protection : sperienced, use a full- fa 1837) respirator cartridge kin and body protection ginen habits. Physical and chem opearance: Yellow 001 dor: Weak odor. dor threshold: No data a Y value: 13. elina point/freezing po	If exposure limits ar expirator with mul subsection of the second	lti-purpose combinatie istant/retardant clothir 1g are forbidden on lable.	on (US) or type AXBEK
8.1 Control Par 8.1.1 Occupation Occupational E Component	ameters nal exposure limits xposure limit values Country/Region USA - OSHA South Korea Ireland Gernany (AGS) Denmark Australia South Korea Ireland	Limit value ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	R er S O h h A A O O O O O D F F F	espiratory protection : sperienced, use a full- fail 1387) respirator cartridge kin and body protection ther protection: Smokir gine habits. Physical and chem spearance: Yellow Oil Jor: Weak odor. Jor threshold: No data <i>i</i> 4 value: 13. elting point/freezing point fitial boiling point and H	If exposure limits ar ce respirator with mul s. certain and drinkin certain and certain and certain certain and certain and certain and certain certain and certain and certain and certain certain and certain and certain and certain and certain and certain certain and certain and ce	lti-purpose combinatie istant/retardant clothir 1g are forbidden on lable.	on (US) or type AXBEK
8.1 Control Par 8.1.1 Occupation Occupational E Component	ameters nal exposure limits xposure limit values Country/Region USA - OSHA South Korea Ireland Germany (AGS) Denmark Australia South Korea	Limit value ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	R er I S O D h f Q Q Q Q M I I I I I F F E	espiratory protection : sperienced, use a full- fai (387) respirator cartridge (sin and body protection ther protection: Smokir rgiene habits. Physical and chem Operators: Yellow 0id Jor: Weak 0dor: Jor threshold: No data at Vaule: 13. elting point/freezing po- tifial boiling point and H	If exposure limits ar ec respirator with mults. s. u: Wear fire/flame resi g, eating and drinkin isical properties : vailable. int (°Q): No data avail oilling range (°Q): 85. C): 95.	lti-purpose combinatie istant/retardant clothir 1g are forbidden on lable.	on (US) or type AXBEK
8.1 Control Par 8.1.1 Occupation Occupational E Component	ameters nal exposure limits xposure limit values Country/Region USA - OSIA South Korea Ireland Germany (AGS) Demmark Austrulia South Korea Ireland Germany (AGS)	Limit value ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	R e i S S O O O O O O O P I M M I I I F F F	espiratory protection 1 peprienced, use a full- fa 1837) respirator cartridge sin and body protection ther protection: Smokir ther protection: Smokir Physical and chern opearance: Vellow Oil dor: Weak odor. Jor threshold: No data a 1 value: 13. ething point/freezing po ething boint felosed cup, ° aportation rate: No data	If exposure limits ar ce respirator with mult s: Wear fire/flame resi g, eating and drinkin iical properties : vailable. int (°C): No data avail oiling range (°C): 85: C): 95: No data available.	lti-purpose combinatio istant/retardant clothin 1g are forbidden on are forbidden.	on (US) or type AXBEK
8.1 Control Par 8.1.1 Occupation Occupational E Component	ameters nal exposure limits xposure limit valuee Country/Region USA - OSHA South Korea Ireland Germany (AGS) Denmark Germany (AGS) Denmark	Limit value ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	В в в в в в в в в в в в в в	espiratory protection : sperienced, use a full-fai (1837) respirator cartridge sin and body protection ther protection: Smokir rgiene habits. Physical and chem operarance: Yellow Oil dor: Weak odor. Joer Weak odor. Joer Weak odor. Joer Weak odor. Joer threshold: No data i 4 value: 13. elfing point/freezing po- intial boiling point and f ash point (closed cup, ° raporation rate: No dati ammability (solid or ga	If exposure limits ar ce respirator with multa :: Wear fire/flame resi g, earling and drinkin isical properties : wailable. int (°C): No data avail oliling range (°C): 85 ; 5; 95 ; available. ;): No data available. ;): No data available.	lti-purpose combinatio istant/retardant clothin 1g are forbidden on are forbidden.	on (US) or type AXBEK
8.1 Control Par 8.1.1 Occupation Occupational E Component	ameters nal exposure limits xposure limit values Country/Region USA - OSHA South Korea Ireland Germany (AGS) Denmark Australia South Korea Ireland Germany (AGS) Denmark Australia	Limit value ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	R e S O D h S O O O O O O O P I I I E E F F E S V V V	espiratory protection 1 peprinened, use a full- fa 1857) respirator cartridge sin and body protection ther protection: Smokir Methylic and Chern Operance: Vellow Oil Jorr Weak odor. Jor threshold: No data i dor threshold: No data i to rather shold: No data i to rather shold: No data dor threshold: No data i to rather shold: No data and the shold of the shold of the paperation rate: No data animability (solid or ga pipolsion upper/lower lif upor pressure (kPa): No.	If exposure limits are cerespirator with multa : Wear fire/lame resi g, earling and drinkin isical properties : wailable. Inf (*O): No data avail oiling range (*O): 85. C): 95. available. s): No data available.	lti-purpose combinatio istant/retardant clothin 1g are forbidden on are forbidden.	on (US) or type AXBEK
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8.1 Control Par 8.1.1 Occupation Occupational E Component All components 8.1.2Biological Im Biological Im Biological Im 1.1 En 14022 vassessment of	ameters nal exposure limits xposure limit values Country/Region USA - OSHA South Korea Ireland Germany (AGS) Denmark Australia South Korea Ireland Germany (AGS) Denmark Australia Hinti values iit values: No inform g methods Workplace atmosphe	Limit value ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified unspecified Research available eres. Guide for th	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	ppm Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	mg/m3 Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified Unspecified	R e i i S O b f y Q Q O O O O O O O O O O O O O O O O O	espiratory protection 3 peprienced, use a full- fa 1837) respirator cartridge sin and body protection ther protection: Smokir giene habits. Physical and chen pearance: Vellow Oil dor: Weak odor. Jor Wreshold: No data <i>i</i> ething point/freezing po itial boiling point and I ash point (closed cup, ° aporation rate: No data ammability (solid or gg aporation rate: No data ammability (solid or gg popor density (air = 1): N lative density (mart = itubility (mg/L): No data tanol/water partition c	If exposure limits are cerespirator with mults : Wear fire/lame resi g, earling and drinkin isical properties : wailable. int (°C): No data available. (°C): 85. (°C): 85. (°C): 85. (°C): 86. (°C):	ti-purpose combinatio istant/retardant elothii gg are forbidden on lable. available.	on (US) or type AXBEK

Viscosity Others: 1		availab	re (°C	Remov): No dat				SDS	NO.:TI	80817023A	12.2 Chronic aquation	CONTRACTOR	oving Agent		SDS NO.:T180817023A
10. Stab	ility an	d Read	tivity:	1							Component	Fish	r r	Crustaceans	Algae
reactions.	stability	: Stable	under	the corre	ect cond	litions of use	e decompos and storage.	ition or	other	chemical	All components	No data ava	ailable. N	lo data available.	No data available.
Condition	is to avo ible mat	id: Inco erials: :	mpatibl Strong c	e materia oxides, st	ials, stat trong ac	tic electricity cids, strong b	, heat, humid ases.	ity, etc.			Component	Persistence and degradability	Bioaccumulat or bioaccumulat		Evaluation of PBT and vPvB results
11. Toxi 11.1 Acut			matio	n:							All components	No data available.	No data available.	No data available.	No data available.
11.2 Caro	inogenic Compo				и	ARC		NT				ing: Residual haza	ards may still e	xist after the content	s or labels. s of the packaging are hem to the supplier for
11.3 Othe	All comp	onents			Not	Listed		Not L	isted		Disposal considerati 14, Transporta			n.	
Compo	Corro sive skin/ irritat ion	Serio us eye dama ge/irri tation	Skin sensi tizati on	Resp irator y sensi tizati on	Repr oduc tive toxic ity	Specific target organ toxicity - single exposure	Specific target organ toxicity - repeated exposure	ratio n haza	Germ cell mutag enicit y	Repro ducti ve toxici ty	United Nations Dan UN proper shipping UN Risk Classificati Packing Category: Packaging label: Nor Marine Pollutants () Packing method: Pac	erous Goods Nun name: None on: None None ie (es/No): No	nber (UN No.): manufacturer's	recommendations, fo	r example: open drums
	No data avail able.	No data availa ble.	No data avail able.	No data avail able.	No data avail able.	No data available.	No data available.	data avail	No data availa ble.	No data availa ble.	plastic bottles or meta Transportation Note foods and food addition	l drums (cans) outs : It is strictly proves. The exhaust pi	ide the ordinary hibited to mix pe of the vehicl	wooden boxes. and transport with a le carrying this item m	ron lids, glass bottles, cids, alkalis, oxidants, ust be equipped with a nd tools that generate
All compo nents												ave a grounding c	hain, and a ho		ne tank (tank) used for rranged in the tank to
compo nents 12. Ecol		anc to:	licity	Fish		Crust	aceans		Algae		It is strictly prohibite	d to mix and tran	sport with oxid		d food additives. It is ation. Avoid exposure,
compo nents 12. Ecol 12.1 Act	ite aqu	1			able.	No data			ita avai					portation vehicles shal	
compo nents 12. Ecol 12.1 Act			No da	ata avan.							ram, and nigh temper-				

TiTest 1	echnology En_Ltd	Chu	Removing				SDS NO.:T1		Glue Removing Agent SDS NO.:T180817023A
quantities. E	tefore ship on means, sportation latory in	nd emergen ping, check hazard sigr requiremen formation	whether the sand ann ts.	se treatmen ne packagir	ng container	r is complet	esponding 1 te and seale accordance	types and ed. On the	IMDG-International Maritime Dangerous Goods UN-The United Nations NFPA-National Fire Protection Association CMR - Carcinogers, mutagens or substances toxic to reproduction PCTWA - Time Weighted AverageIARC - International Agency for Research on Cancer PNEC - Predicted No Effect Concentration DSD - Lethal Dose 50% ECS0 - Effect Concentration DSD - Lethal Dose 50% POW - Partition coefficient Octanol:Water VPVB - very Persistent, very Bioaccumulative ICA0/IATA-International Civil Aviation Organization/International Air Transportation Acsociation ACG0/IATA-International Civil Aviation Organization/International Air Transportation Acsociation
Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	OECD-Organization for Economic Co-operation and Development
Potassium	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed	2)Disclaimer
nydroxide Surfactant	N. A	N. A	N. A	N. A	N. A	N. A	N. A	N. A	This Safety Data Sheet (SDS) was prepared according to UN GHS (the 7th revised edition)
Additive	N. A	N. A	N. A	N. A	N. A	N. A	N. A	N. A	The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the
		omestic Sul							assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.
[ECSC]	China Inv	entory of E	xisting Che	mical Subs	tances				
[IECSC] [NZIoC] [PICCS] 6、Oth 6. Oth 6.1 Refe 1]IPCS:The attp://www.	China Inv New Zeal: Philippine ers rence : 	entory of E and Invento es Inventory mational /iese/showe	xisting Che ory of Chen of Chemic Chemic ard.home.	mical Subs nicals als and Ch	emical Subs		ICSC)	,website:	handling, storage, use or disposal of the product.
[IECSC] [NZIoC] [PICCS] 6、Oth 6.1 Refe 1]IPCS:Th http://www. 2]IARC, , 3]OECD: http://www. 4]CAMEO 5]NLM:Ch 6]EPA: Inte 7]U.S. Dep	China Inv New Zeal- Philippine ers rence : Inter ido.org/dyn- vebsite: htt The Gl- echemporta Chemicals emIDplus, sgrated Risl artment of	entory of E and Inventory rnational /icsc/showe p://www.iai obal Port d.org/echem , website: ht k Informatii Transportal	visiting Chemic of Chemic of Chemic ard.home. re.fr/. al to I portal/indu ttp://camec tp://chem.s. on System, ion:ERG, b	mical Subs nicals als and Ch al Sal nformation ex?pageID chemicals. s.nlm.nib.g website: ht website: ht	emical Subs fety C on Ch "0&request noaa.gov/se gov/chemidj tp://cfpub.s	ards () locale=en. arch/simple olus/chemid pa.gov/iris/ msa.dot.gov	ubstances, 2. Ilite.jsp. //hazmat/lib	website:	handling, storage, use or disposal of the product. Photograph of sample
[IECSC] [NZIoC] [PICCS] [6, Oth (6.1 Refe 1]IPCS:Th http://www. 2]IARC, , 3]OECD: http://www. 4]CAMEO 5]NLM:Ch 6]EPA: Inter 7]U.S. Dep	China Inv New Zeali Philippine ers interiors interiors interiors chemical and chemical and chemical and chemical and artment of GESTIS-d rs: tions and a nical Abstra- ived No Et al Concert	entory of E and Inventors is Inventory mational fices/showica obal Port al.org/echen website: ht konformati Transportat latabase on ecronyms tets Service ficet Level ration 50%	xisting Chem ory of Chemic of Chemic ard.home. rc.fr/, al to I mportal/ind ttp://camee tp://chem.s on System, ion:ERG, y hazard sub	mical Subs nicals als and Chi al Sat nformation ex?pageID- chemicals. s.nlm.nib.g website: http stance, web PC-S RPE NOE	emical Sube fety C on Ch 0&request nova.gov/sc sov/chemidį tp://cfpub.e. yv/chemidį tp://cfpub.e. site: http://j STEL- Shor	ards () emical Sti locale=en. arch/simple blus/chemid pa.gov/iris/ msa.dot.gov gestis-en.itrr t term expoor	ubstances, ; ; ; ; /hazmat/lib ust.de/. sure limit /e Equipme t Concentral	website: prary/erg. nt	handling, storage, use or disposal of the product. Photograph of sample Find the product of the

	Materi	al Safety Data Sheet (MSDS)	
Product name and company information	Product name Company name Address Supervising department Telephone number Fax number Emergency contact number	Hundrerr (GT-7.118) Genera Chemicali Inc. Headquarten Ibandi Office 1884-2 Kalizzki, Tashaba Cip, Junaki Perfecture Producti Markeing Formolica Dept. +812-9475-2111 (General) +812-9475-2131 +812-9475-6663	
Hazards identification	GHS classification	Phytochemical hazard Geograp 3 Faramaho Liquid Facilità (Constante Charley (ont)) • Cancoro Heante Toxicity (ont)) • Cancoro Heante Toxicity (anti) • Net applicato I cossification for Acate Toxicity (inhalation, gas) • Cancoro Heantified for Acate Toxicity (inhalation, super) • Cancoro Heantified for Acate Toxicity (inhalation, super)	
		Category 1 Sin Corroion/Initiation Category 1 Sinto Spc Danage/Spc Initiation Reprinton—Cannot be classified Sinto Spc Danage/Spc Initiation Cannot be classified for Carl Mangenicity Cannot be classified for Carl Mangenicity	
		Cannot be classified Specific Target Ogan Toxicity (Repeated Exposure) Cannot be classified for Cannot be classified for Arabitation Toxicity Environmenta hazards • Cannot be classified for Arat againt toxicity • Cannot be classified for Chronic aquatic toxicity	
	GHS label elements	Pictorial display or signal symbols	
	Signal word Hazards information	Danger Flammable liquid and vapor	
		 Itamifi i subleved Causes serious skin medicine wound and eye irritation Causes serious eye irritation 	

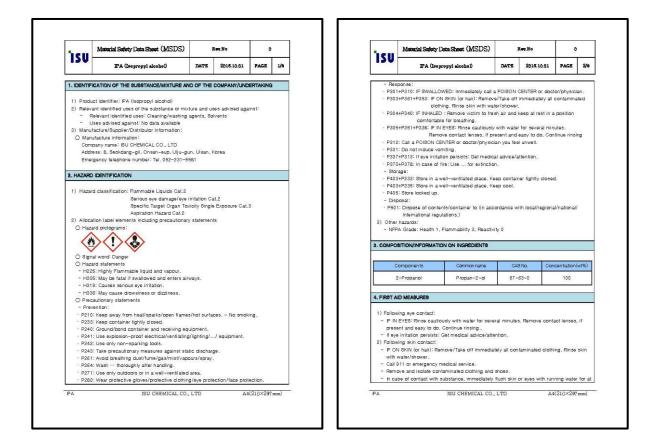
						Fi	naco Chamienis, i le No. 13-0460-01 Revision No. 01 2
Ilargach identification	Precursionary stakments	· E · · · · · · · · · · · · · · · · · ·	scept contains: deep novy. fire deep novy. fire like specialism is the special time specialism is the specialism of the like specialism of th	r ng/hg/ com famme en flamme, regioner and regioner and regioner and regioner regioner provide the record of the record of the record record by the record of the record of the record record of the record of the record of the record record of the record of the record of the record record of the record of the record of the record record of the record of the record of the record record of the record of the record of the record record of the record of the record of the record record of the record of the record of the record record of the record of the record of the record record of the record of the record of the record record of the record of the record of the record of the record record of the record of the record of the record of the record record of the record o	steetive clothing/e d receiving equip ical/ventilating/li ent to prevent stat well-ventilated an rapors. ter handling.	we heen read- merse and the second se	ind anderstood face protection confortable for or a roth arise outact lenses, through from tack space with free, humidit posed and Public
Composition / information on ingredients	Categories for chemical su Chemical name or general Components and their cont	name: \				in the the	
	lagercient		CASN.	Created (City	Ufficial gazetts matics # (Act on the Footballon of Chemical Substances and Regulation of Their Muniferture, d(c.)	Taur for PRTR and Promotion of Chemical Management Applicable substances	Tedeoloud Settidy and Health Act Notification: Applicable substances
	33 self-led alightatic polytonice		Not disclosed	£3 - 90	Not disclosed	Noi applicable	Sul applicable
	Banzyl sheded Propulses played-1-monomials letter	e a cal el e	103-61-6	10 - 15	34611	Not applicable Stat applicable	Net opticable Not applicable
	Propytene gysef-1-monomalial ethic	e scatale	108-61-6	2-5	2-3(1)	Sant stopporty.	2 or stationage

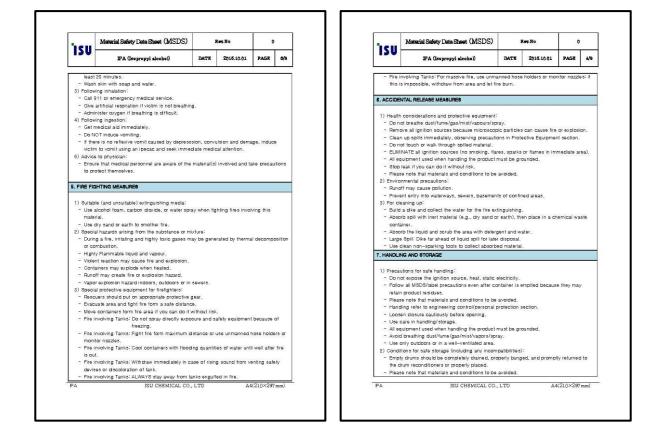
	File No. 13-0460-01 May 17, 2013 Revision No. 01 3
nauses.Remov	highly-concentrated solvent gas may cause headache an e victim to fresh sir and keep at rest in a position confertabl Call a doctoriphysician if you feel unwell.
occur. Wash v	adheres to the skin and is left as is, itchiness and eczema ma with plenty of water and scop. If you develop skin irritation o diagnosis/treatment from a doctor/physician.
	y with water. Remove contact lenses, if present and easy to de ing if eye irritation continues, receive a diagnosistreatmen physician.
	Call a doctor/physician if you feel unwell. d immediately see a doctor/physician. e vomiting.)
Protoction of porson Resectors must administering first-aid treatment	wear protoctive gear
Special precautions for Present the doctors/physicians	MSDS or precautions regarding the container to the art.
ire-fighting Extinguishing media Powder, carbo	n dioxide gas, halides, foam extinguishers, and drying sand.
Extinguishing media that Rod-like water must not be used	e
Typical hazards during fires Harm ful gases	such as CO, NOX, etc. may occur as combustion gas.
For large-scale Remove flame	arbon diexide gas, drying nand, etc. for initial fires. 5 fires, use form extinguishers, etc. to block out the air- nable items from the surroundings promptly. minimers that are exposed to high temperatures using water.
Protection for purson carrying Wear appropri- out actinguishing arterities breathing appr	iate protective gear (heat-resistant clothing, self-containe aratus, etc.).
elease and emergency measures protective gen	area immediately, prohibit use of fire, and wear appropriat ar (gloves, protective mask, protective goggles, protectiv k uniform, etc.).
Preduitions for the environment Talke measures	s to prevent discharge to drainage channels.
scaling and cleaning wash using w relevant regult For large amo	vants, wipe with a rag or other incombustible material, etc., an each oil, etc. Process extraneous matter and waste based o titors, mats, prevent further release by using soil embandments, etce e guiding to a safe location.
Measures to prevent Immediately r secondary disasters ignition, and p	concise any items from the surrounding areas that may eaus report extinguishing media. ment that does not generate static electricity or sporks.

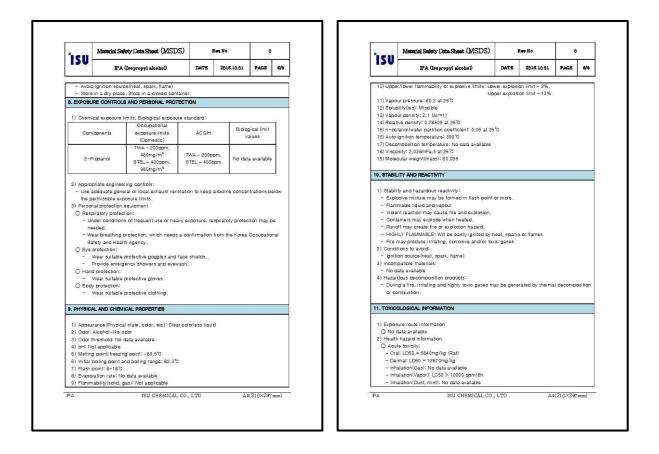
					File No. 13-0460-018 (3 Revision No. 01 4)			
Handling and	Handling	Technical measures						
storage		 Handle in an area with good ventilation. 						
		 Prohibit the use of fire in t 						
		· Carry out work in a way						
		possible, so that there are r			ıg.			
		Close containers tightly ea						
		 Wear appropriate protect eyewear, protective footween 						
		 As a countermeasure again 						
		and protective footwear, ar						
		Local ventilation / Overall ver	atilation					
		· When handling, handle i		with local vent	ilation or overall			
		ventilation facilities.						
		Precautions						
		 Carry out work by wearing that you do not swallow th 						
		in contact with the eves or		a so anat une prod	use does not come			
		in contact with the eyes or skin. • After handling the product, wash your hands, face, etc. thoroughly, and						
		make sure not to bring tai						
		areas, etc. Precautions for safe handling						
		 Avoid flames, sparks, contact with high-temperature items, and heating. 						
		· Equipment must be of an explosion-proof construction, and antistatic						
		measures must be carried out for facilities. Technical measures • Male sure to follow relevant laws such as the Fire Service Act, Industrial Safey and Hanh Act, etc. • Store the product in a wurchouse for hazardoous materials (as based on the Fire Service Act) or a cold, dark place with ventilation equipment. Appropriate scorage conditions • Close containers tightly, and avoid leake, high temperatures, fire and high hamidity. Safe container and packaging materials						
	Storage.							
		Store in the container used		act.				
Exposure	Measures for facilities	Install local ventilation equips	nent.					
control		Set up a wash room and ep product is to be handled, and p	re wash four					
	Control concentration /	· · · · · · · · · · · · · · · · · · ·		Allowable	Allewable			
	Allowable concentration	Substance name	Control concentration	concentration Japan Society for Occupational Health	concentration ACOIH TWA			
		Modified alphatic polyamine	Not set	Not set	Not set			
		Benryl alcohol	Not set	Not set	Not set			
		Propylene glycol-1-monomethyl ether	Not set	Not set	Not set			
		acetate	100000	10000000				

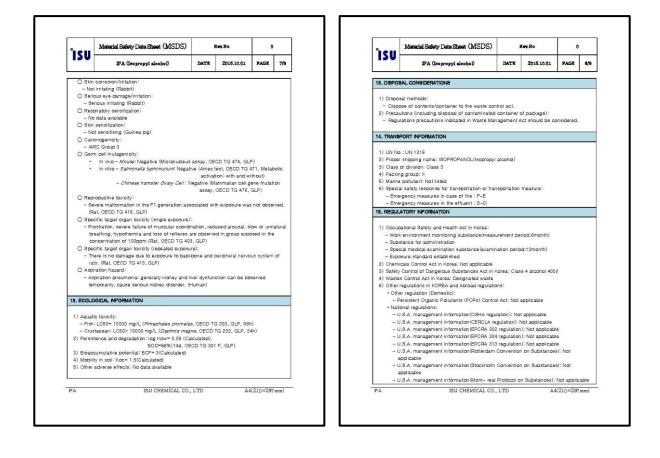
		GT-7 II B Canon Chemicals, File No. 13-0460-(May 17, 2013 Revision No. 01
Exposure	Protective gear	· Protective gear for the respiratory system
control	Protective gear	Wear a gas mask for organic gas. Check to make sure that a canister that is appropriate for the applicable gas is attached.
		·Protective gear for the hands
		Wear gloves made of materials that do not allow for the permeation of
		organic solvents and chemical agents.
		· Protective gear for the eyes
		Wear protective goggles.
		Protective gear for the skin and body
		Wear an apron, etc. made of a material that does not allow for the permeation
		chemical agents. Wear long-sleeved clothing and safety shoes that do not directly expose the skin.
	Appropriate sanitary measures	Replace absorbent material such as masks regularly or after each use.
Physical and	Appearance	Pale yellow, opaque, viscous liquid
chemical and	Odor	Amine odor
properties	pH	No data
	Melting point/Freezing point	No data
	Boiling point/Initial boiling	No data
	point/Boiling range	
	Flash point	55.1°C (Pensky-Martens closed cup method)
	Spontaneous ignition point	No data
	Combustion/explosion range	No data No data
	Vapor pressure Vapor density	No data No data
	Specific gravity	0.991 g/cm ³ (22°C)
	Solubility	Insoluble in water
	oundring	Easily soluble in organic solvent
	Octanol-water partition coefficient	No data
	Decomposition temperature	No data
Stability and	Safety	Stable at ordinary temperatures and ordinary pressures.
reactivity	Possibility of hazardous reaction	Oxidizing agent, acidic substance (May intensely produce heat)
	Conditions to avoid Mixed hazardous substance	High temperatures Material that is soluble in solvent
	Hazardous resolved component	Harmful gases such as CO, NOX, etc. may occur due to combustion, etc.
	The actions resource component	Ammonia
	Other	Reacts with peroxide, oxides, isocyanate, and epoxy
Toxicological	Acute toxicity	Benzyl alcohol
information		Animal studies, etc.: LD ₂₀ (oral): 1230 mg/kg (rats)
		Propylene glycol-1-monomethyl ether acetate
		Animal studies, etc.: L D 50 (dermal): 8352 mg/kg (rats)
	Skin corrosion/irritation	Modified aliphatic polyamine
		Causes serious skin medicine wound and eye irritation
	Severe eye damage/irritation	Modified aliphatic polyamine
	eye ennige minimum	Causes serious eye irritation
	Specific target organ	Benzyl alcohol
	toxicity, single exposure	Irritates the eyes and skin.
		May affect the nervous system.

Toxicological information	Specific target organ toxicity, repeated	May 17, 2013 Revision No. 01 6/6 Benzyl alcohol May cause skin sensitization.
	exposure	
Ecological information	Ecological toxicity	No data
	Persistence/degradability	Modified aliphatic polyamine: No degradability. Benzyl alcohol: Good degradability based on microorganisms.
	Mobility to soil	Based on its physicochemical properties, this product has the possibility of transferring to the atmosphere, water areas, and soil environment.
Disposal considerations	waste processor. Do not let or into drainage channels. P the Waste Disposal and Po service. If processing waste	esidual product, containers, etc., by consigning disposal to a licensed industrial fluid used for cleaning containers and equipment flow directly onto the ground roces waste generated by waterwater transment, incircuting cd. by (30)ung ubble Cleaning Act and related regulations, or consign to a waste disposal products, etc. Brough incinentation, adorb the waste into diatomacous earth, unto using an open-type incinentation.
Transport information	UN Category: 8 (corrosive UN Number: 3470 Name: Amines or polyami Packing Group: 3	
	cargo by loading and unloa damaged. In addition, be car	e containers are not damaged and that there are no leaks. Prevent collapse of ding containers so that they are not jolted, do not tip over, fall, or become eful of cargo shifting during transport. maporting hazardous goods as specified in the Fire Service Act and the Road
Regulatory information		s Material Group 4, First Petroleum Group, Insoluble Liquid Danger Class III
	Waste Management and Pul	substance as specified in Appended Table 8 of Danger Regulations blic Cleansing Act
Other information	 Kagaku Daijiten (Dicti- shobo Kankei Hoki-shi 	iuidelines, Japan Chemical Industry Association orary of Chemistry), Kyortisu Shuppan Co., Lid. (Collection of Laws Related to Fire Service), Gendai Shobosha inge and Storage of Dangerous Goods in Ship, Kaibundo
n time, and may b (ISDS, and take so marantee or stand	revised due to revisions of law afety measures that are appropria lard for safety and quality. This	I based on the materials, information, and data that could be obtained at the present point es and new findings. When handling this product, refer to the contents described on this fac for the actual conditions based on the responsibility of the user. This MSDS is a not a "Material Safety based Safest" as crated based on Japanese lass. When exporting the fact will be regulated based on the laws of the respective country.
Revision Histor April 24, 2013		Department: Products Marketing Promotion Dept.)









'ISU	Material Safety Data Sheet (MSDS)	3	Rey.No	0	0		MSDS-M
	PA (Isopropyl alcohol)	DATE	2015.10.01	PAGE	9/9		MATERIAL SAFETY DATA SHEET
- E - E	U Classification (Classification): F: R11 X U Classification (Risk Phrases): R11, R36, U Classification (Safety Phrases): S2, S7, S	R67					PRODUCT NAME: MAGNESIUM FLUORIDE (MGF2)
1) Refere	orea Occupational Safety & Health Agency ECD SIDS HemWATCH ICLID SIDB RC ACC JOTOX		3				SECTION 1 COMPANY IDENTIFICATION MANUFACTURER: OHYO KOKEN KOGYO CO.,LTD ADDRESS (HEAD OFFICE): 164-26 KUNAGAWA, FUSSA CITY COVARGE SECTION: CRYSTAL OPTICS DEPARTMENT ADDRESS: 88-77 SHINGOU, HIGASHI-MATUYAMA CITY SATTANA PREF, 355-0071, JAPAN PHONE NUMBER: +81-493-23-9515 ENVISION DATE: June-27-2012 SECTION 2 INGREDIENTS INFORMATION PRODUCT NAME: MACINE MACINE COMPOSITION: MACINE MACINE COMPOSITION: MACINE MACINE COMPOSITION: MACINE C
 ES EC HF 2) Print c 	SIS DHA CHEM PVIS tate: 2015. 10. 01 ter of revised/Date of last revision:	LTD		¥(210×297	mm)		ABUINDANTLY. SKIN CONTACT: ACRIDITY EVE CONTACT: ACRIDITY INGESTION: MAY BECOME HARMFUL WHEN INOCULA ABUINDANTLY.

SECTION 4 FIRST AID ME	ASURES	SECTION 9 PHYSICAL/CHEMICAL PROPERTIES
INHALATION:	MOVE TO THE PLACE OF FRESH AIR AND GARGLE. IF	APPEARANCE: WHITE GRANULES
	NECESSARY, SEEK MEDICAL ADVICE.	MELTING POINT: 1260 °C
SKIN CONTACT:	WASH ADHESION DEPARTMENT OR CONTACT	BOILING POINT: 2260 °C
	DEPARTMENT WITH SOAPY WATER AND WASH IT	SPECIFIC GRAVITY: 3.148
	AWAY WITH A LARGE QUANTITY OF WATER.	ABSORBENCY: NONE
EYE CONTACT:	WASH IT AWAY WITH A LARGE QUANTITY OF WATER	SOLUBILITY IN WATER: 0.0087g/100gH2O (18 °C)
	PROMPTLY MORE THAN 15 MINUTES. IF NECESSARY, SEEK MEDICAL ADVICE.	SECTION 10 STABILITY AND REACTIGITY
INGESTION:	WASH IT IN MOUTH WITH WATER WELL PROMPTLY.	IGNITION POINT: NONINFLAMMABILITY
INGESTION.	WHEN POSSIBLE, THROAT DISCHARGE A FINGER, AND	EXPLOSION LIMIT: NONINFLAMMABILITY
	LET YOU SPIT IT OUT. IF NECESSARY, SEEK MEDICAL	COMBUSTIBILITY: NONE
	ADVICE.	IGNITION CHARACTERISTICS: NONE
		OKIDATION CHARACTERISTICS: NONE
SECTION 5 FIRE-FIGHTIN		SELF-REACTION: NONE
DIGESTION METHOD:	NONINFLAMMABILITY	EXPLOSIVENESS: NONE
EXTINGUISHANT:	NONINFLAMMABILITY	STABILITY / REACTIVITY: PRODUCE HYDROGEN FLUORIDE IN RESPONSE T NITRIC ACID. NOT DISSOLVE IN ETHANOL.
SECTION 6 ACCIDENTAL	RELEASE MEASURES ING COLLECTS IT IN AN EMPTY CONTAINER AS MUCH AS	SECTION 11 TOXICOLOGICAL INFORMATION
POSSIBLE.		PUNGENCY (SKIN / EYES) : STIMULATE SKIN, AND INFLAMMATION MAY E
WASH AWAY COLLECT	TON WITH A LARGE QUANTITY OF WATER AFTERWARD.	CAUSED.
· WEAR A TOOL FOR PF	ROTECTION AT THE TIME OF THE COLLECTION WORK.	TOXICITY DATA: MARMOT (ORAL) LD50 1000mg/kg
ECTION 7 HANDLING AI HANDLING: STORAGE:	WEAR A TOOL FOR APPROPRIATE PROTECTION TO AVOID INHALATION OR CONTACT. HANDLE IT AND WASH WITH WATER WITH A FACE, A HAND, A MOUTH AFTERWARD, DRY ATTENTION TO THE VENTILATION. AVOID A HICH TEMPERATURE AND HICH HUMIDITY AND SEAL IT UP IN THE COUL AND DARK SPACE AND KEEP IT. DO NOT PUT IT IN THE GROUND DIRECTLY.	THERE IS NO KNOWLEDGE SECTION 13 DISPOSAL CONSIDERATIONS
SECTION 8 EXPOSURE C EXPOSURE LIMIT:	ONTROLS/PERSONAL PROTECTION ACGIH: TWA2.5mg (F)/m3 JAPAN SOCIETY FOR OCCUPATIONAL HEALTH: NOT APPLICABLE	 ENTRUST A SPRCIALIZED SUPPLIER. PUT IT IN THE CONTAINER WHICH THE WATER WAS IN, AND ADD CALCIUM HYDROXIDE. 24HOURS LATER, THE TOP LUQUID LQUID IS NEUTRALIZED WTI HYDROCHLORIC ACID, AND IT AWAY WITH LARGE EXCESSIVE WATER. TH DEPOSITION FILLS IT UP AS "NOTHING PLANE-RELATED GRIME" AND DISPOSES.
FACILITIES:	ESTABLISH VENTILATION FACILITIES AND THE WASH PLANT IN THE WORK PLACE.	CONTINUE TRANSPORT INFORMATION
TOOL FOR PROTECTION		SECTION 14 TRANSPORT INFORMATION • PERFORM AN APPROPRIATE STEP SO THAT A CONTAINER IS NOT DAMAGED.
TOOL TOX PROTECTION	SAFE GLASSES FOR THE EYES	· IN ADDITION, IT IS THE Q.V. OF "HANDLING AND STORAGE" AND "ACCIDENTA
	RUBBER GLOVES FOR THE CONTACT	RELEASE MEASURES".
		SECTION 15 REGULATORY INFORMATION • NOT APPLICABLE (JAPANESE LAWS AND ORDINANCES)
		NOT APPLICABLE UAPARESE LAWS AND ORDINANCES

MSDS-MgF2c(E)-P4	LIENHE C
SECTION 16 OTHER INFORMATION REFERENCES CITED (Japan) ・「観島安会データシートの作成指針」 (社)日本化学工業協会/1992 ・The Sigma Aldrich Library of Chemical Safety Data EDITION II VOL1. Robert ELenca 編(1988	Unit 3A03, Building G, Cin-One, dH Han-Fan-D-X-LLDeqing 1001 Tel (B6-109) 1675997 (Ge G178307) Fac: (56-109 MATERIAL SAFETY DATA SHEET For information or emergency: Telphone 607-395-1966
 - 許容濃度等の適性 日本重素報生学会/1998 - A CG 11 / 1999 年度川 (社) 日本作業環境測定協会/1998 - (既存化学物質デー多要更) 通外技術資料研究所/1574 - (化学大苏典) 化学大防典器集委員会/1964 	Date prepared January 20, 2015 1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY
 Values such as content, the physics or chemical property are not guarantee values among this MSDS mention contents. Because the instructions are things for the handling that is it usually-like, We ask for consideration in the case of the special handling. Because we cannot always say enough to handle it, please warm the evaluation such as the danger hazardous property information after having had you understand it about the properties of matter. 	TRADE NAME: Norhald Optical Adhesive 61 TRADE CODE: NOA61 PRODUCT USE: Ultraviolet Curing Adhesive COMPANY: Norhand Products Inc 2540 Route 130, Bdg. 100 Cranburg, NJ 08512 USA Telephone (60) 935-1066 Telephone (60) 935-9006
	2. HAZARDS IDENTIFICATION
	Mercapto Ester • 1 Health,R2206/R38/R43 Benzophenone • 1 Flammability Tetrahydofurfurf Methacrylate • 1 Reactivity • Hazard Rating
	Health risks: • 0 Minimal • 1 Stight
	• 2 Moderate • 3 Serious • 4 Extreme
	B Protective equipment R22 Harmful If in contact with skin or if svallowed. R35 Irritating to ysis. R33 Irritating to skin. R43 May cause sensitization by skin contact B Glove and Eye protection
	Pictogram(s) 考多を進え、 电话:010-51657899、64787099、64787019、60787215 作業;010-64787000 北京市明和区在家地西亜金属国際 G 座 3.003 単元 都編:100102

		6	LIENHE Cor	
<	ĵ>	Tel: (86-10)	Dne, 48 Hua-Jia-Di-Xi-Li,Beijing 100102, CJ S1657899 (or 64787029 JFax: (86-10)64787 ww.lienhe.com.cn, Email: xf-lin@263.	7060
Signal Word: War		1. 1954	N. A. BARN	6. ACCIDENTAL RELEASE MEASURES
	3. COMPOSITION/INFOR	MATION ON INGREDI	ENTS	Measures for personal safety:
	Chemical Nature:Urethan	ne related based formulat	ion	GLOVES: Use gloves made from an impervious material, e.g. nitrile, butyl or latex rubber. Latex rubber may soften and become pervious if also exposed to organic solvents.
COMPONENTS	CAS#	EINECS#	CONCENTRATION	
Mercapto-ester*	Trade Secret *	Trade Secret*	50-65%	RESPIRATOR: Not required under normal operating conditions. Respiratory protection may be needed in unusual
Triallyl Isocyanarate	1025-15-6	213-834-7	30-55%	circumstances where significant exposure to fumes or mists can occur. A NIOSH approved air purifying respirator with an organic vapor curifdge would then be recommended. Use must comply with OSHA (29 CFR 1910.134) and other regulatory standards.
arcinogens in NTP, IARC, OSHA, Rolf A. FIRST ÁID MEASURES				FOOTWEAR: Impervious shoes, e.g. leather, not cloth or sandads. Ventilation Requirements: A fame hood is not generally required. The room should have adequate ventilation to avoid potential for concentration of mist or vapor., Environmental measures: Stop the product from entering the drainage system and the natural environment. Limit leakage with earth.
In case of splashes in eye: If the ccasionally lifting the lower and up In case of skin contact: If the ma vater. If irritation develops, get m	material gets in the eyes, in oper eyelids. Continue for 1 tterial gets on the skin, imm edical attention. scard or wash contaminated	nmediately wash the eye 5 minutes and get medici rediately wash the area w I clothing before reuse.	o fresh air. Get medical attention if a with copious amounts of water, al attention immediately. ith soap and water and flush with the victim is alert. See doctor as soon	Cleaning methods: Recovery: Absorb material with paper towel or other absorbent. Place in container for disposal. If possible, expose absorbed resin to UV light or sunlight to solidify the resin. Cleaning/decontamination: Clean up with soap and water. Elimination: Elimination: Eliminate according to local and national regulations.
In case of ingestion: If the mater s possible.				Technical measures: Do not reuse container. This product is for industrial use only. Practice good housekeeping and vigorous
In case of ingestion: If the mater				
In case of ingestion: If the mater		*		personal hygiene to minimize contact with material. Precautions to take: Avoid contact with skin and eyes.

LIENHE Corp	LIENHE Co
	Unit 3A03, Bailding G, City-One, 48 Hun-Jia-Di-Xi-Li,Beijing 100102
Unit 3A03, Building G, City-One, 48 Hun-Jia-Di-Xi-Li,Beijing 100102, China Tel: (86-10)5167399 (or 64787059)Fax: (86-10)61787060	Tel: (86-10)51657859 (or 64787059)Fax: (86-10)64 www.lienhe.com.cn. Email: xf-lin@2
Precautionary Measure: None. www.lienhe.com.cn, Email: xf-lin@263.net	Ingestion: LD50: >5 g/kg (rats)
Exposure limits: None.	Inhalation: LC50: >2.5 mg/Uhr
Protective personal equipment:	Local effects:
Respiratory protection: Not needed with normal use.	On skin: slight irritating to skin.
Protection for hands: Use gloves made from an impervious material, e.g. nitrile, butyl or latex rubber. Latex rubber may soften and become nervious (also assent the manipulation of the soften and become nervious) (also assent the manipulation of the soften and become nervious) (also assent the manipulation of the soften assent the sof	On eyes: irritating to eyes.
soften and become pervious if also exposed to organic solvents. Eye Protection: Wear safety glasses.	Long term toxicity:
Protection from skin: Wear clothing that provides protection to skin.	Skin contact: May cause sensitization by skin contact.
Provide Provide Name	12: ECOLOGICAL INFORMATION
9: PHYSICAL AND CHEMICAL PROPERTIES	
	Ecotoxicity: No data available.
Appearance:	Mobility: Cured adhesives are immobile.
Color: Translucent paste	General ecological: Do not empty liquid into drains or ground water.
Odor: Slight sulfur odor	
pH: Not applicable	13: DISPOSAL CONSIDERATION
Melting point: Not applicable	15. DIFORE CONSIDERATION
Boiling point: Not applicable	Disposal Methods for product and waste: Send to authorized disposal plants or for incineration under controlled condition
Decomposition temperature: >300°C	Disposal methods for contaminated packaging: Do not reuse package. Send to authorized disposal plants or for incineration under controlled controlled
Flash point: 175°C	under controlled conditions.
Auto ignition temperature: Not applicable	You should comply with the local and national regulations in force when disposing.
Explosive properties: None Oxidizing properties: None	, / in the maximum regulations in texes when supposing.
Valazing properties: None Vapor pressure: <0.1 @ 20°C	
vapor pressure: <0,1 @ 20°C Density: >1	14: TRANSPORTATION INFORMATION
Solubility/Miscibility:	
Solubility in water Not miscible	Land transport (ADR/RID)
Viscosity: 465,000-515,000 cps @ 25°C	Not classified as dangerous in the meaning of land transport regulations(ADR/RID).
	Shipping transport(IMD)
	Not classified as dangerous in the meaning of shipping transport regulations(IMDG).
0: STABILITY AND REACTIVITY	Air transport (IATA)
	Not classified as dangerous in the meaning of air transport regulations(IATA).
onditions to avoid: Keep away from UV and sunlight. Temperatures above 65°C may cause exothermic nonhazardous plymerization.	15: REGULATORY INFORMATION
ubstances to avoid: None	
lazardous decomposition products: None	Symbols: Xi Irritant
	R phrases:
and the second	R22 Harmful in contact with skin and if swallowed.
TOXICOLOGICAL INFORMATION	R36 Irritating to eyes.
	R38 Irritating to skin.
cute toxicity:	R43 May cause sensitization by skin contact.
	利恩知道说
利恩和通讯	电话: 010-51657899, 64787059, 64787215 传真: 010-64787060
电话: 010-51657899, 64787059, 64787215 传真: 010-64787060	北京市朝阳区花家地西里金隅国际 G 座 3A03 单元 邮编: 100102
北京市朝阳区花家地西里金隅国际 G 座 3A03 单元 邮编: 100102	

		NHE Corp			April 24, 2013 Revision No. 60 15
	Unit 3A03, Building G, City-One, 48 Hua-Jia-Di- Tel: (86-10)51657899 (or 6478	\$7059)Fax: (86-10)64787060		Material	Safety Data Sheet (MSDS)
S phrases: S24 Avoid contact with ski S26 In case of contact with S37 Wear suitable gloves. Contains: Urethane related adhesives.		ın, Email: xf-lin@263.net 1.	Product name and company information	Product name Company name Address Supervising department Telephone number Fax number Emergency contact	Paint (CT-711A) Canon Chemiosh Inc. Heudquarters/Daraki Office 1884:2 Natizaki, Tushuka City, Ibaraki Prefecture Products Marketing Promotion Dept, 481:29476-2111 (Goneral) 481:29476-2013
US Federal Regulations:				number	
Unless otherwise noted, this pn Europe (EINECs/ELINCS) USA (TSCA) Canada (DSL) Australia (AICS) Japan (MITI) Korea (TCCL) Philippines (PICCS) China	dust is in compliance with the investory listing of the countries shown I Listedregistered Listedregistered Listedregistered Listedregistered Listedregistered Listedregistered Listedregistered Listedregistered	below.	Hazards identification	GHS classification	Phytocohemical based + Category 2 Tammable Liquid Health harps - Category 4 Acade Troicity (certat) - Category 4 Acade Troicity (demat)) - Cannot be classified for Acate Troicity (inhalation, gas) - Cannot be classified for Acate Troicity (inhalation, query) - Category 1 Static For Acate Troicity (inhalation, query) - Category 1 Static Roy Fallmann, Static Physical Static - Category 1 Static Static Static Physical Static Static - Respiratory or Shin Sensitization: Respiration—Category 1 - Static Physical Static Static Physical Static Static Static - Static Physical Static
R22 Harmful in contact with sk R36 Irritating to eyes. R38 Irritating to skin. R43 May cause sensitization by Custom Situation: Harmonized					Category 2 Care Cell Mategonisity Category 1 Care Conformation Conformatio Conformation Conformation Conformatio Conformation Conformation
The information included in this its publication. The information	as in companies with the roac substances control roc(15-Cr) invent s affety Data Sheet is correct to the best of our knowledge, information a given is designed only as guidance for safe handling, use, processing, at be be considered a warranty or quality specification. The information rela	and belief at the date of torage, transportation,		GHS label elements	Pictorial display
	o be considered a warranty or quality spectrication. The information rela- ted to valid for such material used combination with any other materials or			Signal word	Danger
	村長を見え 8.8.6、010-51657999、6775218代表:010-64750960 位期回区在派地西面金周期后 6 盛 30.00 元 「厳新」100102				

	1	1
Hazards identification	Hazards information	Tighthy flammable liquid and vagore Tararrhaf if availlowed Causes schwin ritutation Causes schwin ritutation May cause an allengie schwin for the schwin sc
	Precutionary statements	Safety measures Do not handle until all safety precautions have been read and understood. Keep many from flames, Weer precision glovely protective clothing lays protection/face protection. Weer precision glovely protective clothing lays graphenet. Use exploring or professional static discharge. Use exploring or professional static discharge. Weet precision or in a vell-resulted area. Weet breathing gas/mint/vapors. If INIALLED. Renew existing to free daw and water. If dain rimitation or a rash arise, receiver a dainput/vapors/matment from a physician. IF DIVEYES. Cantefilly wash the affected qve where water. Menove contact lenses, it present and easy to do Continue riming. If SWALLOWID. Kinse mouth Call a doctor/physician if you feel unwell. Storage Coose the container tightly, and store in a watchuse for hazadoos material (sias, and day the timperatures, fare humidity. Mumidianion equipment while avoiding h temperatures, fare humidity. Dispore of the proda

Composition / information on	Categories for chemical subs Chemical name or general na						
ingredients	Chemical mane or general m	une. Da	piterior 24 riej	au cpany rea	in moune		
	Components and their conten	nt					
	Ingredent		CAS No.	Content (%)	Official gazette notice # (Act on the Evaluation of Chemical Substances and Regulation of Their Manufactur e, etc.)	Law for PETR and Promotion of Chemical Management: Applicable substances	Industrial Safety and Health Act Netification: Applicable substances
	Bisphenol A liquid epoxy resin		25068-38-6	12-17	7-1279	Net applicable	Not applicable
	Tolucie		168-88-3	9.68	3-2	0	0
	Propylene glycolmonomethyl other		107-98-2	12-16	2-494	Not applicable	
	Propylene glycel-1-monomethyl ether a	icetate	108-65-6	10-14	2-3114	Not applicable	Not applicable
	3-glycidoxy propyl trimethoxysilane		2530-83-8	6-8	2-2071	Not applicable	Not applicable
	Coal far		8007-45-2	16 - 21	9-1741	Not applicable	0
	Benzapyrene		50-32-8	0.2 - 0.7	-	Not applicable	0
	Naphthalene		91-20-3	2.5	4-311	0	0
	Phenol	-	108-95-2	0.1-0.4	3-481	Not applicable	0
	Silice		14828-60-7 7631-86-9 112945-52-5	5 - 20	1-548	Not applicable	
	Chromium and trivalent chromium compound		Registered	0.2 - 0.5	Registered	Not applicable	0
	2-(4'-thiazodyf)/senzimidazole		143-79-6	1.04	9-820 9-1851	0	Not applicable
	Sericite		12001-26-2	3-4	-	Not applicable	Not applicable
	Other	_	Registered	0.1 - 2	-	-	-
First-aid measures	IF INHALED IF ON SKIN	nausea. breathin If the poceur.W	Remove victi ng. Call a doet product adher Vash with pler	n to fresh air : or/physician if es to the skin ity of water and	and keep at a you feel unw and is left I soap. If you	rest in a positi rell as is, itchiness a develop skin	se headache and on comfortable for s and eczema may irritation or rashes
	IF IN EYES Se		receive diagnosis/treatment from a doctor/physician. Severe pairs or inflammation of the maccous membrane of the eye will occur. Rinse carefully with water. Remove contact lenses, if present and easy to do. Continue triansing Immodiately call a doctor/physician.				
	IF SWALLOWED	Rinse r Call a c		n if you feel u	twell.		
	Protection of person administering first-aid treatment	Rescue	rs must wear j	rotective gear.			
	Special precautions for doctors/physicians	Present	the MSDS or	precautions rep	parding the co	ontainer to the	doctor/physician.

Handling		re-fiehtine Ext.
storage	Pewder, carbon diexide gas, halides, and fram extinguishers.	essures
	Water	Extinus
	Strengly volatile and flaromable.	Typi
	Stop airring the extinguishing media at the source of the tire, and carry out fire extinguishing activities from the upwind side.	Ty p
	War appropriate prototive gene (hast-resistant elothing, self-contained breathing appearies, etc.).	Prot carr activ
	Verifiate the area immediately, prohibit use of firs, and wear appropriate protective gain (givens, protective mask, protective googeles, protective featware, work emiliare, etc.).	ceidental release and rela
Exposure contro	Take measures to prevent discharge to drainage channels.	Proc
Exposure contro	Ver small announly, wijte with a rag or other incombosible moterial, etc., and work- uing wash oil, zie. Processe estimations maker and waste based on relevant regulations. For large neuronst, power that that releases by using soil enhankments, etc., and handle uller griding to a sofa location.	Met scal
	Innoveliately remove any items from the sumcouncing areas that may cause ignition, and propare extinguishing media. Use safe equipment that does not generate static electricity or sputks.	Mer
	Technical measures • Handlin in an even with good ventilation: • Prohibit thrave use of fice in the handling area. • Carry out work in a ways such that depension is suppressed as much as possible, to all three area holds, controllers, or eventuring. • Chose containers fightly cach line when handling. • When appropriate postericity are gradient protocols and the posterior eyenves, protective feterwar, work uniforms, det y han handling. • As a conterminence against data' detection, true emittative work, and grams and protective feterwar, and use explosion-period clothical explorement.	andling and Han
	Local ventilation / Overall ventilation - What handling, handle in a location with local ventilation or overall ventilation facilities.	
	Providentian - C-stry our model he vesseling the appropriate producting gate as successary so that you then net workflow the product, and no that the preduct does not cours in earliest with the system as a successary of the product does not course - A that broadings the product you work your success, etc., etc. how explaying and make ages not to being minimary providency gate with a given such to sense gives a success.	
	Prevaniens for suite handling - koold faints, spothe, cortiser with high-temperature learny, and heating. - Equipment must be of an explositor proof construction, and antidado messame must be carried on the faindhins.	

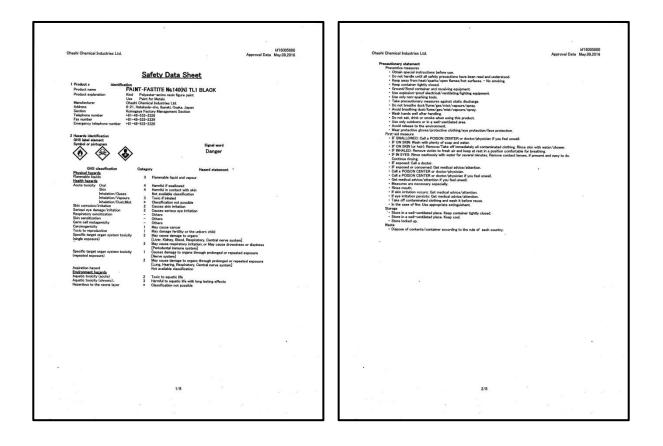
andling and orage	Storage	Safety and Health	Act, etc.		Fire Service Act, Industrial aterials (as based on the Fire			
		Service Act) or a cold, dark place with ventilation equipment.						
		Appropriate storage conditions • Close containers tightly, and avoid leaks, high temperatures, fire and I humidity • As the product reacts with animes and organic acids, do not place the prov- near such items.						
		Safe container and pa • Store in the container						
	Measures for facilities	Install local ventilation						
		 Set up a wash roc is to be handled, a 			e location where the product e their location.			
	a . i		-	Allowable	1			
Exposure control	Control concentration Allowable concentration	/ Substance name	Control concentration	concentration (200E) Japan Society for Occupational Health	Allowable concentration (2008) ACOLE			
		Toluene	20ppm	50ppm 188mg/m ³	TWA 20ppm, 75mg/m ³			
		Propylene glycolmonomethyl efter	Not set	Not set	TWA 100ppm STEL 150ppm			
		Propylene glycol-1-monomethyl efter acetate	Not set	Not set	Not set			
		Coal tar	0.2mg/m ² As benzens- soluble component	Not set	TWA 0.2mg/m ³ As benzene-soluble acrosol			
		Венгорутеве	Not set	Not set	Not set TWA			
		Naphthalene	Not set	Not set	10ppm, 52 mg/m ² STEL 15ppm, 79 mg/m ²			
		Phenol	Not set	5ppm 19mg/m ³	TWA Spom, 19 mg/m ³			
		Silicon dioxide	Not set	Type 3 dust Total dust Smg/m ³ Inhalant dust 2mg/m ³	TWA 10 mg/m ³			
		Crystalline silica	0.026mg/m ³	Inhalant Crystalline silica: 0.03200mg/m ³	Silica crystalline o-quartz TWA 0.025 mg/m ³ (Inhalant dust)			
		Chromium and trivalent chromium	Not set	0.5mg/m ³	Not set			
		Sericite	Not set	Type 3 dust Total dust 8mg/m ² Inhalant dust 2mg/m ³	TWA 3 mg/m ² (Inhulant dast)			

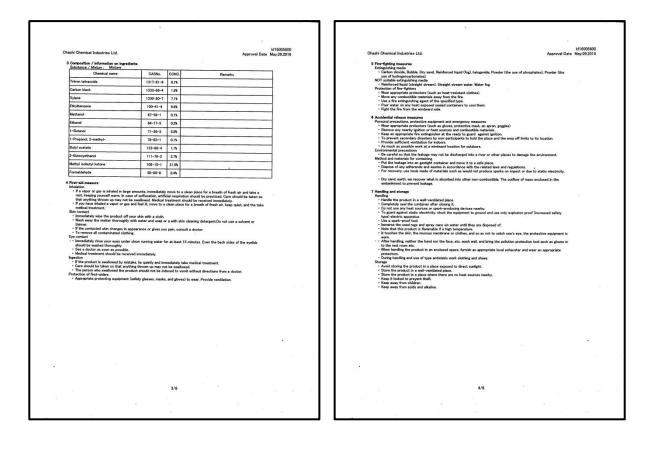
Exposure control.	Protective gear	Protective goar for the respiratory system Wear a gast mask for expansio gass. Check to enalor sure that a caraister that is appropriate for the applicable gas is arached.
		Check to make sure that a carnister that is appropriate for the applicable gas i
		Pretective gear for the hands
		What gloves made of materials that do not allow for the permeation of organi solvents and chemical agents.
		Protective near for the eves
		Wear protective goggles.
		Protective gear for the skin and body
		Wear an apron, etc. made of a material that does not allow for the permeation of
		chemical agents.
		Wear long-sleeved clothing and safety shoes that do not directly expose the skin
	Appropriate sanitary measures	Replace absorbert meterial such as masks regularly or after each use.
Physical and	Appearance	Black liquid
chemical and	Odar	Aromatic odor
properties	pH	No data
properties	Melting point/Freezing point	No data
	Beiling point/Initial boiling	No data
	point/Boiling range Flash point	15.3°C (Tag. closed-cup method)
	Spontaneous ignition point.	No data
	Combustion/explosion range	No data
	Vapor pressure	No data
	Vapor density	No data
	Specific gravity	1.115(22°C)
	Solubility	Soluble in organic solvent.
	NOV THE DAY OF MEN	Insoluble in water
	Octanel-water partition coefficient	No data
	Decomposition temperature	No data
Stability and	Safety	Stable at ordinary temperatures and ordinary pressures.
reactivity	Possibility of huzardous reaction	Oxidizing agent
	Conditions to avoid	High temperatures
	Mixed hazardous substance	Material that is soluble in solvent
	Hazardous resolved component	Harmful gases such as CO, NOX, etc. may occur due to combustion, etc.
	Other	Reacts with amines and organic acids.

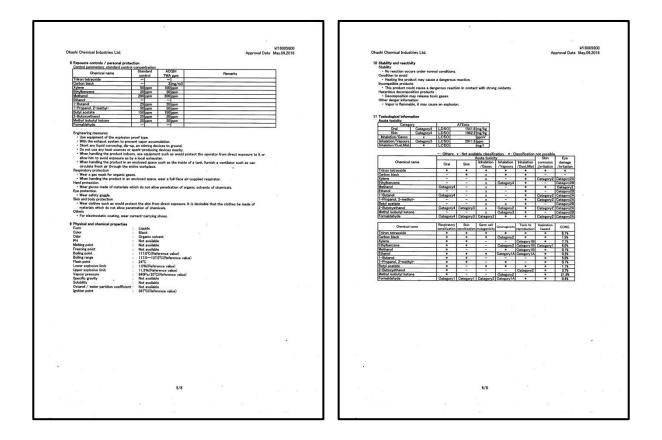
		1						
oxicological formation	Acute toxicity	Toluene Animal studies, etc.: LD ₅₀ (o LC ₅₀ (inhaled): 49	oral): 636 mg/kg (rats) 000 mg/m ³ /4H (rats)					
		Coal tar Animal studies, etc.: LD ₅₉ (c	oral): 1700 mg/kg (rats)					
	Naphthalene Animal studies, etc.: LD_{50} (oral): 1800 mg/kg (rats)							
	Skin corrosion/irritation	Bisphenol A liquid epoxy resintfoluene/ethylene glycol monomethyl ether/ethylene glycol monoethyl ether/xylene Irritates skin.						
	Severe eye damage/irritation	Bisphenol A liquid epoxy resin/toluene/ethylene glycol monomethyl ether/ethylene glycol monoethyl ether/xylene Irritates eyes.						
		Irritates eyes. Coal tar Causes corneitis and conjunctivitis after coming in contact with the						
	Respiratory	Toluene/Irritates the air passage. Coal tar						
	sensitization/skin sensitization	Coal tar						
	sensitization/skin	Coal tar If skin to which coal tar	has adhered is directly exposed to sunlight, and stiffening occur, and with time, erythema					
	sensitization/skin	Coal tar If skin to which coal tar stinging pain, burning pain,	has adhered is directly exposed to sunlight, and stiffening occur, and with time, erythema					
	sensitization/skin sensitization	Coal tar If skin to which coal tar stinging pain, burning pain, occurs. Coal tar	has adhered is directly exposed to sunlight, and stiffening occur, and with time, erythema					
	sensitization/skin sensitization Germ cell mutagenicity	Coal tar If skin to which coal tar stinging pain, burning pain, occurs. Coal tar May cause genetic disorders	has adhered is directly exposed to sunlight, and stiffening occur, and with time, erythema Carcinogen category JARC 3					
	sensitization/skin sensitization Germ cell mutagenicity	Coal tar If skin to which coal tar stinging pain, burning pain, occurs. Coal tar May cause genetic disorders Substance name	has adhered is directly exposed to sunlight, and stiffening occur, and with time, erythema Carcinogen category					
	sensitization/skin sensitization Germ cell mutagenicity	Coal tar If skin to which coal tar strigring pain, burning pain, occurs. Coal tar May cause genetic disorders Substance name Tolaene	Ann adhered is directly exposed to surlight, and stiffening occur, and with time, erythema Curcinogen estegory LARC 3 LARC 3 LARC 1 LARC 1 LARC 3 LARC 3					
	sensitization/skin sensitization Germ cell mutagenicity	Coal tar If skin to which coal tar stinging pain, burning pain, occurs. Coal tar May cause genetic disordern Substance name Tokerne Coal tar Naphshalerne	has adhered is directly exposed to surlight, and stiffening occur, and with time, erythema Carcinogen eategory 1ARC 3. (ACOIH A1, Japan Society for Occupational Health Group 1 1ARC 2.8. 1ARC 1. ACOIH A2,					
	sensitization/skin sensitization Germ cell mutagenicity	Coll tar If skim to which coal tar stinging pain, burning pain, occurs. Coal tar May cause genetic disordern <u>Substance name</u> <u>Tobaene</u> <u>Coal tar</u>	Ann adhered is directly exposed to surlight, and stiffening occur, and with time, erythema Curcinogen estegory LARC 3 LARC 3 LARC 1 LARC 1 LARC 3 LARC 3					
	sensitization/skin sensitization Germ cell mutagenicity	Coal tar If skin to which coal tar stinging pain, burning pain, occurs. Coal tar May cause genetic disordern Substance name Tokerne Coal tar Naphshalerne	Curcingen eatogery Curcingen eatogery Curcingen eatogery LARC 3 LAR					
	sensitization/skin sensitization Germ cell mutagenicity	Coal tar If skin to which coal tar stirging pain, somming pain, occurs. Coal tar May cause genetic disorders Substance name Coal tar Coal tar Coal tar Coal tar Benzopyrene Crystallized silica Tolacne May affect the central nerve	Ann athered is directly exposed to sunlight, and stiffening occur, and with time, erythema (Carcinogen eategory) (AACC) (
	sentitization skin sentitization Gem cell mutagenicity Carcinogenecity Specific target organ toxicity, single exposure	Coal tar If skin to which coal tar stirging pain, somming pain, occurs. Coal tar May cause genetic disorders Substance name Coal tar Coal tar Coal tar Coal tar Benzopyrene Crystallized silica Tolacne May affect the central nerve	Ann adhered is directly exposed to surlight, and stiffening occur, and with time, erythema (<u>Carcinogen category</u>) <u>LARC 3</u> LARC 3 LARC 3 LARC 3 LARC 3 LARC 1, ACCHI A2, JApan Society for Occupational Health Group 1 LARC 2B LARC 1, ACCHI A2, JApan Society for Occupational Health Group 2A LARC 1, ACCHI A2 accuse abnormal cardiac hythm and lapse of hilly of causing chemical posumonia.					
	sensitization skin sensitization Gern cell mutagenicity Carcinogenecity Specific target organ	Coal tar If akin to which coal tar atinging pain, burning pain, occurs. Coal tar <u>Substance name</u> <u>Tobares</u> <u>Coal tar</u> <u>Naphthalene</u> <u>Benzopyrene</u> <u>Crystallized silica</u> Tobares May affer the central nerve In high concentrations, my consciouses.Has the possi Propylene glycolmonom dtp	hm athered is directly exposed to surlight, and stiffening occur, and with time, erythema Carcinogen category 1ARC 1. ACOIH A1, Japon Society for Occupational Health Group 1 JARC 1. ACOIH A2, Japon Society for Occupational Health Group 1 JARC 1. ACOIH A2, Japon Society for Occupational Health Group 1 JARC 1. ACOIH A2, Japon Society for Occupational Health Group 2A, LARC 1. ACOIH A2, se course alternatic devices the other of bility of causing chemical posumonia.					

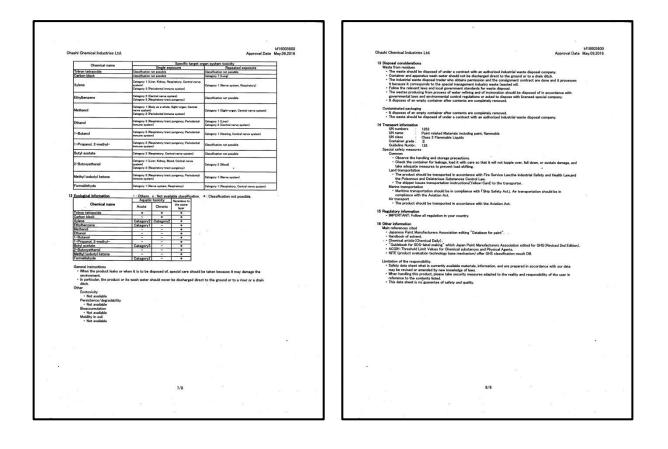
		File No. 13-0460-011 April 24, 2013 Revision No. 00 8/			
Ecological information	Ecological toxicity	Toxic to aquatic life			
monimum	Persistence/degradability	Bisphenol A liquid epoxy resin: No rapid degradability. Toluene, Propylene glycolmonomethyl ether : Good degradability by microorganisms, etc.			
	Mobility to soil	Based on its physicochemical properties, this product has the possibility or transferring to the atmosphere, water areas, and soil environment			
Disposal considerations	Dispose of waste, such as reidual product, certainers, etc., by consigning disposal to a liernee industrial waste processor. Do not let fluid used for cleaning containers and equipment flow directly ento the ground or int drainage channels. Process waste generated by wastewater treatment, incineration, etc. by following the Waste Daposal an Public Cleaning Act and Pitteller quiptions, or consign to awate disposal service. If processing waste products, etc. through incineration, adorb the waste into diatomaceous earth, and incinerate in amal amounts using an open-type incinerator.				
Transport information	Incidence in small amounts using an open-type incidence. • UN Consequent: 3 (Gammable liquid) • UN Nomber: 1203 • Same: Paint • Packing Group: 2 Check to make sure that the containers are not damaged and that there are no leaks. Prevent collapse of caugo by loading and unicoding containers so that they are no joled, do not tip over, fall, or become damaged. In addition, be careful of cargo shifting during transport. Follow the standards for transporting hazardous goods as specified in the Fire Service Act and the Roac Traffic Act.				
	cargo by loading and unloa damaged. In addition, be car Follow the standards for tra	ding containers so that they are not jolted, do not tip over, fall, or becon reful of cargo shifting during transport.			

	April 24, 2013 Revision No. 00 9/
Regulatory information	Law for PRTR and Promotion of Chemical Management: •Class I Specified Chemical Substance (Toluane [Covernment Ordinance No. 300 9.08%], naphthalene [Government Ordinance No. 302.2.3%])
	Class 2 Specified Chemical Substance (2-(4-thiazolyl)benzimidazole[Government Ordinance No. 55 1.04%]
	Ship Safety Act: Flammable liquid (medium flash point) Waste Management and Public Cleansing Act
Other information	Reference literature GHS Implementation Guidelines, Japan Chemical Industry Association GHS Implementation Guidelines, Control of Co
	 Kagaku Daijiten (Distionary of Chemistry), Kyorisu Shappan Co., Ltd. Shobo Kankei Hoki-shu (Collection of Laws Related to Fire Service), Gendai Shobosha Regulations for the Carriage and Storage of Dangerous Goods in Ships, Kaibundo
	ety Data Sheet" has been created based on the materials, information, and data that could be obtained
When handling this	in time, and may be revised due to revisions of laws and new findings. product, refer to the contents described on this MSDS, and take safety measures that are appropriate tions based on the responsibility of the user.
This MSDS is a not	a guarantee or standard for safety and quality. ty Data Sheet" is created based on Japanese laws. When exporting the product to foreign products
please note that the	product will be regulated based on the laws of the respective country.
Revision History	
April 24, 2013 Revis	sion No. 00 issued (Supervising Department: Products Marketing Promotion Dept.)







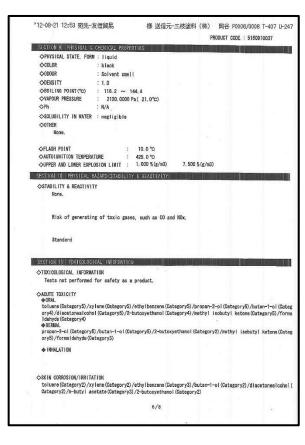


ECTION 1 CHENICAL PRODUCT	2 COMDANY IDENT	
MANUFACTURER'S NAME NAME OF SECTION ADDRESS	: ORIGIN ELEC : QUALITY ASS : 2-3-11, Naga	TRIC CO.,LYD. URANCE SECTION oka.Mizuho-machi.Nishitama-gun,Tokyo 190+1232 JPM
TELEPHONE NUMBER FAX NUMBER EMERGENCY PHONE NUMBER DATE PREPARED	: 042-557-411 : 042-557-755 : 042-557-411 : 2012/03/07	8 5 1
IDENTITY (As Used On Lab EXPLANATION : TYPE MAIN USE	: PAINT : FOR GLASS	S BLACK B NO. 3
CTION 2 HAZARDS IDENTIL	FICATION	
HAZARD CLASS	CLASSIFICATION	HAZARD STATEMENT
FLANMABLE LIQUID	Category 2	Highly flammable liquid and vapour
FLAMMABLE SOLID	NOT APPLICABLE	
SELF-REACTIVE SUBSTANCE AND MIXTURE	NOT APPLICABLE	
ORGANIC PEROXIDE	NOT APPLICABLE	
CORROSIVE TO HETALS	NOT APPLICABLE	
ACUTE TOXICITY ORAL	Category 5	May be harmful if swallowed
ACUTE TOXICITY DERMAL	NOT CLASSIFIED	
ACUTE TOXICITY INHALATION	Category 5	May be harmful if inhaled
SKIN CORROSION/IRRITATION	NOT CLASSIFIED	
SERIOUS EYE DAMAGE /EYE IRRITATION RESPIRATORY SENSITIZATION	Category 2A	Causes serious eye irritation May cause allergy or asthma symptoms or breathing
REAFTINGIUNI OCNOTITIZATION	Category 1	difficulties if inhaled
SKIN SENSITIZATION	Category 1	May cause an allergic skin reaction
GERM CELL NUTAGENICITY	NOT CLASSIFIED	
CARCINOGENICITY	Category 1A	May cause cancer
REPRODUCTIVE TOXICITY	Category 1A	May damage fertility or the unborn child
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)	Category 2	May cause damage to organs
SPECIFIC TARGET ORGAN SYSTEWIC TOXICITY (REPEATED EXPOSURE)	Category 2	May cause damage to organs through prolonged or repeated exposure
ASPIRATION HAZARD	NOT GLASSIFIED	
ACUTE HAZARDOUS TO THE AQUATIC ENVIRONMENT	NOT CLASSIFIED	
CHRONIC HAZARDOUS	Category 3	Harmful to aquatic life with long lasting effects
¢GHS LABEL ELEMENTS	and the second	

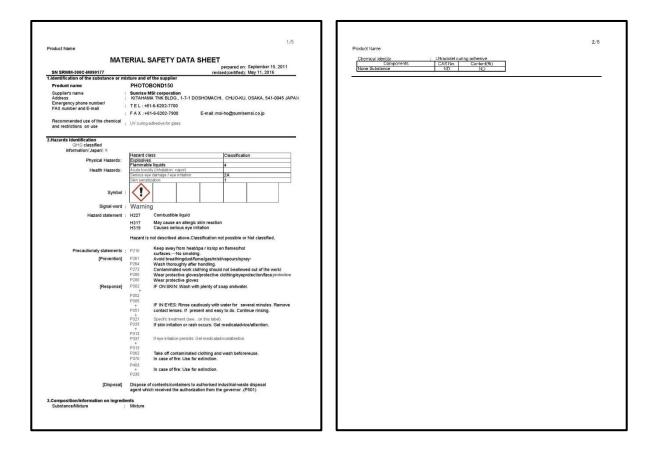
		PRO	DUCT CODE : 51	50910037
TON 3 COMPOSITION/INFORMATION ON	the state of the second second second			
Chemical Name	CAS Number	% by weight	PRTR	
Cellulose		1~5		
Alkyd		10~15		
Silicone		1~5		
Nelamine		1~5		
carbon black	1333-86-4	1~5		
calcium carbonate	471-34-1	30~35		
xylene	1330-20-7	6.0	I	
ethy Ibenzene	100-41-4	5.7	I	
toluene	108-88-3	2.2	I	
n-butyl acetate	123-86-4	5~10		
ethyl acetate	141-78-6	1~5		
methyl isobutyl ketone	108-10-1	5~10		
butan-1-ol	71-36-3	1~5		
propan-2-ol	67-63-0	1~5		
diacetoneal cohol	123-42-2	1~5		
2-butoxyethanol	111-76-2	1~5		
formal dehyde	50-00-0	0. 52	I	
Other Limits Recommended				
-				

PRODUCT CON	DE : 5150910037 PRODUCT CODE : 5150910037
SECTION 4 FIRST-AID MLASURES	SECTION 6 INCOIDENTAL RELEASE XEASURES
OEYE CONTACT Immediately flush eyes with large amounts of clean water for at least 15 min Thoroughly wash the back of the eyelids. Consult a doctor as soon as possibl	Use protective clothing during operations (such as gloves, protective mask, apron and goggles) Return spilled material to a sealable container and move to a safe location.
	Duickly remove ignition sources, high temperature items and flammable material from the violni Propara papoporize tax cinquishers in case of ignition. Collect by using tools made of materials that will not generate space through impact or stati electricity.Dispace of contaminated and wate material in accordance with repart regulations
OSKIN CONTACT	Take care to prevent environmental impact through discharge to rivers and lakes.
Remove promptly with a cloth. Wash off thoroughly with copicus amounts of way or dermatological detergent. Do not remove with organic chemicals such as s Consult a doctor if there is a change in appearance or if there is pain.	ter and scap, olvents or thi
	SESTION 7 HANDLING & STORAGE
	OHANDI ING
	Handle in well ventilated location.Reseal container after each use.
♦INHALATION	Prohibit use of flames, sparks and hot material in the vicinity.
If large amounts of vapor or gas or the like has been inhaled, then promptly	Earth all equipment, and use explosion proof-type (safety enhanced) electric devices in order to reduce the risk of static electricity.Use spark proof-type tools.
move to a place with lots of fresh air, and keep warm and calm. Give artific respiration if breathing is labored or stopped. Do not allow patient to swa	cial Use anti-static-type work clothes and shoes while working.
Seek medical attention promptly. If feeling nauseous because of inhalation of	f mist or Soak waste, paint solids, spray dust etc. in water until disposal.
gas, then keep calm in a place with lots of fresh air and seek medical attent	tion. When working in an enclosed space, carry out work after providing sufficient ventilating equip and use appropriate protection. Wear appropriate protective devices such that the paint does
	not contact skin, membranes or clothing, or enter one's eyes.
	Wash hands and face well after handling, and do not bring contaminated olothing such as gloves into rest areas or the like.
	♦STORAGE
♦ INGESTION	Keep away from direct sun.
Swallowed: Keep caim and seek medical attention if swallowed. Do not allow pa	Keep in a well ventilated location. Keep away from ignition and heat sources.
to swallow vomitus. Do not induce vomiting unless instructed to do so by a do	actor.
SECTION 5 FIRE-FIGHTING KEASURES	SECTION & EXPOSURE CONTROL / PROTECTION
♦EXTINGUISHING MEDIA Water [] CO2 Gas [Y] Foam [Y] Powder [Y]	⊘CONTROL PARAMETERS
Dry Sand [Y] Others []	Use explosion proof-type equipment for handling.
♦SPECIFIC HAZARDS WITH REGRD TO FIRE-FIGHTING MEASURES	Install ventilating equipment to ensure no vapor entrapment Provide earth on equipment for liquid transport, ladling and mixing.
Do Not use water.	Do not allow hot items or ignition sources in the vicinity of the handling area.
Use appropriate protective clothing (such as heat resistant clothing). Quickly remove flammable material from the vicinity.	Then painting inside, either use equipment such as an automatic spray- painting machine so that
Use designated extinguishing media	the operator is not directly exposed, or provide equipment such as local ventilation equipment so that the operator can avoid exposure.
Cool sealed containers exposed to high temperatures with water Fight fire from upwind side.	When working in sealed spaces such as tanks, provide equipment such that ventilation in the se
	space is adequate, particularly near the base.
3/8	4/8

*12-08-21 12:52 宛先-友信貿易	康 送信7	亡三枝塗料(株)	and the second second	P0005/0008 T-407 U-247
♦THRESHOLD LIMIT VALUE Chemical Name	THRESHOLD LINIT VALUE	ACGIH TLV	ARODUCT	OODE : 5150910037 Other Limits Recommended
Cellulose	VALUE			Recommended
Alkyd				
Silicone				
Melamine				
carbon black	3.9mg/m3	3.500mg/m3	3	
calcium carbonate		10.000mg/m3		6450mg/kg(rat)
xylene	50ppm	100. 000ppm	3	3500mg/kg(rat)
ethylbenzene		100. 000ppm		3500mg/kg(rat)
toluene	20ppm	50. 000ppm	3	4800mg/kg(rat)
n-butyl acetate	150ppm	150. 000ppm		14130mg/kg(rat)
ethyl acetate	200ppm	400.000ppm		5000mg/kg(rat)
methyl isobutyl ketone	50ppm	50. 000ppm		2919mg/kg(rat)
butan-1-ol	25ppm	25. 000ppm		1227mg/kg(rat)
propan-2-ol	200ppm	200. 000ppm	3	3437mg/kg(rat)
di acetonea I coho I		50. 000ppm		4000mg/kg(rat)
2-butoxyethanol	25ppm	20. 000ppm		1746mg/kg(rat)
forma I dehyde		0. 300ppm		605ng/kg(rat)
◇PERSONAL PROTECTIVE EQUIPMENT ◆EYE PROTECTION Wear safety goggles during b Wear safety goggles during b	hand ing			
HAND, SKIN AND BODY PROTECTI Wear gloves that will not be		anic solvents or	chemical	s.
RESPIRATORY PROTECTION Wear gas mask that protects Wear a respirator when in set.		ses.		
OTHER PROTECTION Wear electrically conductive	boots during elect	trostatic painting	K.	
	5/8			



12-08-21 12:53 宛先-友信貿易	*12-08-21 12:54 宛先-友信貿易 様 送信元-三枝塗料(株) 岡谷 P0008/0008 T-407 U-
PRODUCT CODE : 5150910037	PRODUCT CODE : 5150910037
SERIOUS EYE DAMAGE/EYE IRRITATION tolume(Gategory2A)/splane(Gategory2A)/ethylbenzene(Gategory2A)/propan-2-ol(Gategory2A)/butan-1-ol(C ategory2A)/disconsalohol(Gategory2A)/ethyl acotate(Gategory2A)/n-butyl acotate(Category2A)/butan xyethanol(Gategory2A)/methyl isobutyl ketone(NOT GLASSIFIED)	OACUTE HAZAROOUS 10 THE AQUATIC ENVIRONMENT toluane(Gategory2)/zylene(Gategory2)/sthylbenzene(Gategory1)/n-butyl scetzte(Gategory3)/2-butoxy nol(Gategory2)/formaldehyde(Gategory2)
	<pre>\$GHROWIG HAZARDOUS TO THE AQUATIC ENVIRONMENT xylene(Category2)/carbon black(Category4)</pre>
<pre>strin SENSTIZATION formal Galayde (Gategory1)</pre>	ΤΟΧΙΟΙΤΥ :
DGERN CELL NUTAGENICITY formi (dehyde (Dategory2)	PERSISTENCE AND DEGRADABILITY : BIOACCUMULATION POTENTIAL : MIGRATION IN SOLL :
	SECTION 13 DISPOSAL CONSIDERATION
♦CARCINDGENICITY athylbenzene(Category2) /formaldehyde(Category1A) /carbon black(Category2)	For waste paint and containers, dispose of through contract with a registered industrial waste
	disposal operator.Water, such as waste water, generated by washing containers and equipment and the like is not to be disposed on the ground or into water drainage gutters without treatment.
SREPADUCIT IVE TOXICITY To Lonen (Category IA) Ayslene (Category IB) /ethy Ibenzene (Category IB) /propan-2-ol (Category 2) /diacetonesi oo hel (Category 2) /2-butoxyethanei (Category 2)	Weste material generated by water treatment and incineration, for example, should be processed in accordance with laws and regulation relating to the disposal and cleaning of waste material, or should be entrusted to a third party. If disposing waste paint by incineration, absorb onto
QSPEDIFIC TARGET ORAMI SYSTEMIC TOXICITY - SINGLE EXPOSURE toluene GLASSI:Central Nervous System, /syleme GLASSI:respiratory system/Liver/Central Nervous System /kidney//ethylBarzene GLASSI:Central Nervous System//propan-2-ol (GLASSI:Central Nervous System/kidne y/systemic toxicity)/diacetonealcohol (GLASSI:respiratory system, GLASS2:Liver)/ethyl acotate (GLASSI:r	diatomaceous earth and incinerate in small amounts in an open-type incinerator.
espiratory system)/n-butyl acetate(CLASS1:Central Nervous System, CLASS2:lungs)/2-butoxyethanol(CLASS	SECTION 34 TRANSPORT INFORMATION
SPREDIFIC INGENT SYSTEMIC TOXICHT — BEFEATED EPOSUBE toluene (GLASSI:Central Mervous System/kidney/Liver/Xylene (CLASSI:Censpiratory system/Mervous System) /orcoam-2-0 (GLASS2:atterial system/Liver/Sylem/Dutam-I-ol (GLASSI:Central Mervous System/Auditory organ/ideetonealcobol (GLASSI:kidney)/2-butoxyethanol (GLASS2:blood/methyl isobutyl Ketone (GLASSI:s ystemic toxicity)	Transport in accordance with preceutions noted for handling and storage. Ensure container does not leak, and lead such that the container earnot tip, fail, or break, Ensure that the lead will not collapse. Follow all regulations in your country. ◇ UN WHEFR: 1253 ◇ UN QLASS: 3 ◇ PAC(ING GROUP : II
>ASPIRATION HAZAED toluene (Stategory1) /xyiene (Sategory2)/ethylbenzene (Sategory1)/propan-2-ol (Sategory2)/butan-1-ol (Sateg ory2)/nethyl = soubutyl ketone (Sategory2)	SECTION IS REGULATORY INFORMATION
	Follow all regulations in your country.
♦OTHER toluene(3(Respiratory irritation), Category 3 (Narcotic effects))/butan-1-ol(3(Respiratory irritation)	
), Category 3 (Narcotic effects))/methyl isobutyl ketone(3(Respiratory irritation), Category 3 (Narcot	SECTION 16 DTHER INFORMATION
io effects))	♦ REFERENCES "Rew Material Databases", edited by the Japan Paint Manufacturer's The Solvent Handbook
SECTION 12 ESOLOGICAL INFORMATION	Hazard and Disaster Provention Emergency Handbook Chemical Risk Information Platform (GRIP) of National Institute of Technology and Evaluation (NITE) Joan Other ausoliers' SUS
CONCLUSION Invokant tows Take presentions to mining: effect on environment during spills and disposal. Particularly ensure that the product and wash water is not directly discharged to the ground, rivers or to water drainage gutters.	Ount supprime and ◇ ATTENTION The content of this MSDS has been prepared based on guidance for MSDS content provided by the Japan Paint Hanufacturer's Association, however, the hazard and toxicity evaluations may not necessarily be sufficient, so glease take supple care which handling.
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15.Regulatory information The Fire Laws and a			
dancerous article	: Class 4 Petroleum No		
Export Trade Control Order	Controlled subustanse catch-all controls Abou item name not appli		
		n according to the Poisonous Material Control Law 2:	
6.Other information		hannen ant 1	
References	http://www.jaish.gr.jp/	index.html ion of chemicals based on GHS-Labelling and Safety Data	
	Sheet(SDS) JIS Z 7	253:2012	
		micals based on "Globally Harmonized System of Classification emicals (GHS)" JIS Z 7252:2014	
	etc.		
information above assures its strictne	t is prepared by our constant is and safety. Because	mnation gained. mpany's optimal knowledge, it may not be understood that the every chemical has unknown hazards in it, solictous care ty condition and rule for the use of our products under	
every user's responsibility. Thank you		y sometion and rule for the use of our products under	

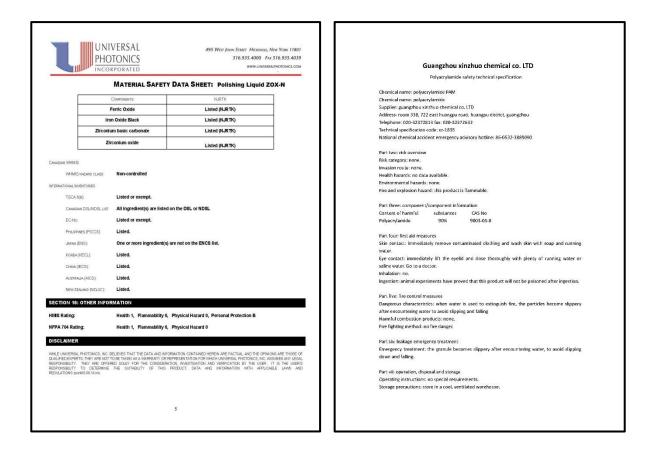
Product Name PHOTOBOND 300, 31	nor						1/5
	RIAL SA	EETV	ATAS	HEET			
SN SRWM-300C-M090200			AIAO			n: May 30, 2008	
1.Identification of the substance or m	ixture and of	the supplie	er	revts	ed(certified): May 13, 2016	
Produnt name	РНОТОВ						
Supplier's name	: Sunrise M	SI corporat	tion				
Address Emergency phone number/				SHOMACH	і, снио-к	U, OSAKA, 541-0	0045 J
FAX number and E-mail	: TEL:+81			-	ii-ho@sunri	and the first of the second se	
Recommended use of the chemical				E-mail:ma	n-nojg/sunn	semsi.co.jp	
and restrictions on use	: UV curing ad	thesive for gl	lass				
2.Hazards identification GHS classified	-		121.04	- State of	149.43.12	C. C	_
information (Japan) *	100000					Los and a	-
Physical Hazards:	Hezard clar Flammable	liquids		11.75	1000	Classification 4	1000
Health Hazards:	Acute toxic Skin corros	ity, inhalatic	n			4	-
realus Hazaros:	Serious eye	a damage/e	ye irritation			2A	
	Sensitisatio			-	125	2	
Environmental Hazards:	Hazardous b	o the aquatic	environment	acute toxicity	16	3	
	Hazardous b Hazard is n	o the aquatic ot describe	d above.Cla	chronic toxici ssification ne	ot possible	or Not classified.	_
Symbol	: Health hazard	Warning	1			1	
		A		1.1	-		
	V	V	1	12	01		
Signal word				(alter)		1.1.1	
Hazard statement	: H227 H315	Combustib Causes sk					
	H317	May cause	an allergic	skin reaction	1		
	H319 : H332	Causes se Harmful if i	rious eye im	itation			
	H361	Suspected	of damagin	g fertility or t	the unborn i	child	
Precautionaly statements	H412	Harmful to	aquatic life	with long las	sting effects		
[Prevention]	P201			ions before u			
	P202	Do not har understoor		safety preca	utions have	been read and	
				hot surfaces	s, sparks, o	pen flames and	
	P210			No smoking			
	P261 P264			imes/gas/mi ly after hand		spray.	
	P264 P264			after handli			
	P271	Use only a	outdoors or i	n a well-ven	tilated area		
	P272	Contamina workplace.		thing should	i not be allo	wed out of the	
	P273		ase to the er				
	P280 P280		ective gloves ective gloves	veya protect	lion/face pro	ptection.	
(Response)				i. h plenty of w	ater/soap.		
[P304+P340	IF INHALE	D: Remove			keep comfortable	
			ng. 5: Kinse cau	tiously with	water for se	verai minutes.	Concernance and
	P305+P35 1+P338	Remove cr	ontact lense	s if present a	and easy to	do - continue	E INI
	P308+P313			SON CENTE			易音
	P312	Call a POI	ISON CENT	ER/ doctor if	f you feel un	well.	THE P

	2/	10 10 13 11 14	3/5
roduct Name PHOTOBOND 300, 30		Product Name PHOTOBOND 300, 3	300K
	P321 Specific treatment ,	Appropriate protective equipment	
	P332+P313 If skin irritation occurs: Get medical advice/attention.	for respiratory	: If a bad smell , wear a mask with the deodorization effect .
	P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.	for hands	impervicusness protection gloves
	P337+P313 If eye irritation persists get medical advice/attention.	for eyes	protection gogles
	P362+P364 Take off contaminated clothing and wash it before reuse.	for skin and body	The long-sleeved work clothes and the protection clothes and the protection
	P370+P378 In case of fire: Use appropriate fire extinguisher to extinguish. P403+P235 Store in a well ventilated place. Keep cool.		boots are worn if necessary. Using protection cream is desirable.
	P405 store locked up.	9.Physical/chemical properties Appearance physical state	: Liquid
[Disposal]	P501 Dispose of contents/containers to authorised industrial-waste dispos- agent which received the authorization from the governor .	color odor	: Yellow Faint odor
Composition/information on ingredi	ente	pH	: ND
Substance/Mixture	Mixture	Melting point/freezing point	: ND
Chemical identity	Ultraviolet curing adhesive	Initial boiling point and boiling range Flash point	* : ND - 89°C
Components	CAS No. Content(%)	Explosive limit	ND
2-Hydroxyethyl methacrylate 2-Ethylhexyl methacrylate	868-77-9 20-25 688-84-6 20-25	Vapor pressure	: ND
Co-contractive memory are	688-84-6 20-25	Vapor density	: ND : 0.97
First-ald measures		Relative density solubility	ND
Inhalation	At feeling sick, remove victim to fresh air and keep at rest.	Partition coefficient:	ND
	Get medical attention. Wash affected area with soapy water.	n-octanol/water	
If on skin.	Wash affected area with soapy water. Get medical attention if irritation occurs.	Auto-ignition temperature	ND ND
	Flush immediately eyes with a lot of water at least 15 minutes.	Decomposition temperature Odor threshold	: ND
If in eyes	Get medical attention.	Evaporation rate	ND
Ingestion	Get medical attention immediately. Do not induce vomiting.	Flammability(solid.gas)	ND
Protection of rescure Special attention for doctor	The special protection is unnecessary. No information	Viscosity	: 410-550mPa+s
The protection of the person of fire- fighting	 NOX, COX or SOX might be generated. Use Foam, Powder or Carbon oxide gas extinguisher, and wear Protection goggle, Protection wear and Respirator. Keep being on the windward. No information 	Condition to be avoided Hazardous decomposition product 11.Toxicological information	There is no possibility under normal use. NOX, COX and/or SOX may be generated at burning.
		GHS division judgment grounds	No. and and a second
Accidental release measures		Acute toxicity (oral)	No date.
Instructions for the human body : Protective equipment	When leaking in large quantities, take care to footwear and prevention of fall. protection gloves, protection mask.	Acute toxicity (dermal)	: No date.
	At feeling sick and/or an abnormality, leave the spot promptly. When	Acute toxicity	: No date.
Emergency procedure.	abnormality continues, get docter's checkup as soon as possible.	(inhalation: gas) Acute toxicity	
Collection, Neutralization,	Large quantity ; Prevent an outflow by soil or sand , and collect in the empty container	(inhalation: vapor)	: Determined by calculation.
A containment method etc.	Ssmall quantity: Wipe it off with waste	Acute toxicity (inhalation: dust, mist)	: No date.
Handling and storage		Skin corrosion / imitation	: Determined by calculation.
Handling Technical measures	Do not use it near the heat source, spark or fire.	Serious eye damage/ eye irritation	: Determined by calculation.
Exposure inhibition of user	Local ventilation is desired. Keep it away from the material with high	Respiratory sensitization	: No date. : Determined by calculation.
subseque universities et milles	temperature During the handling, be careful not to touch the skin and wear a mask for	Skin sensitization Germ cell mutagenicity	: Determined by calculation. : No date.
	organic gas, a mask for air supply, imperviousness protection gloves if	Carcinogenicity	: No date.
	necessary. In addition, do not take it. After the handling, wash hands and gargle enough.	Reproductive toxicity	: Determined by calculation.
Storage		Hazardous to the aquatic	: No date.
Technical measures (Storage condition)	Keep it in a cool and dark place under 20degrees C.	environment (acute) Hazardous to the aquatic	No date.
Exposure controls/personal protecti	90	environment (chronic)	RESA
Component Name	Management Concentration Allowable concentration	Refer to detailed data for each the e	element and the example things such as model SDS
Component Name	No settings ACGIH:5mg/m3(TWA)	Acute toxicity	: No data
Benzoyi Peroxide		Target effect	: No data
	The equipment for facial cleansing and the body washing is puted inter the handing place.	Skin sensitization	: No data Mai To kunaga

roduct Name PHOTOBOND 300, 30		/5 Product Name PHGTOBOND 300, 300K
	: No data	This information might be revised by new kowledge and examination gained. Although the content of this document is prepared by our company's optimal knowledge, it may not be understood
Specific effects Carcinogenicity Reproductive toxicity	: See section 2. : Refer to the GHS classified result : Refer to the GHS classified result	that the information above assures its strictness and safety. Because every chemical has unknown hazards in it, solicitous care
Teratogenicity Other information	: Refer to the GHS classified result : Refer to the GHS classified result	should be inevitable to handling. Please settle your own safety condition and rule for the use of our products under
2.Ecological information	5.8.9	- 私品融合保守法律、物理如實施定法則以及於公共的重要。
Ecotoxicity Hazardous to the aquatic environment (acute)	: Determined by calculation.	2011年1月1日日日日, 1月1日日日日日日日日日日日日日日日日日日日日日日日日日日日日
Hazard to the aquatic environment (chronic)	: Determined by calculation.	「売税から」を必須適合価格を、企業部務に必須が受差を実施しますので、 増払の下すがらし、したの、部分車、利用車を定定で加速すたのでいた。
Bioaccumulative potential	No information No information No information No information Be careful to the handling, in the case of a leak and the disposal because it mght influence the environment. Deal so that a product in particular and avaidon do not flow the ground, a diver and a drainage directy,	4. 化物学 广告 经收益 化化物 化化化物 化化化物 化化物 化化物化化物 化化物化合物 化化化化化化化化
3.Disposal considerations		(1) (1) (2) (3) (1) (1) (3) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3
in reference to the following information Please obey a law and the standard of Classification Disposal for a container, packing		(1) 単語は「「よう」、「からないりない」 「そうそかか」を「ことでし」」のよう、「あって加速したとし」 「ない」」は、世界の「あたい」を、「し」の「加速」「加速なかな」 「お」、「あっ」のようには、「し」と「ううた」のであったがであった。
4.Transport Information UN number,transport hazard class and packing group. UN proper shipping name	: Not applicable pasking group Not applicable ; Not applicable	· · · · · · · · · · · · · · · · · · ·
A marine pollution material Specific safety measures and condition in the transportation	 Not include a pertinence ingredient. According to section of Handling and storage Handle cargo carefully and must not leak contents by a fall / a shock . Load it 	(1) 化合金化合金化合金化合金化合金化合金化合金化合金化合金化合金化合金化合金化合金化
Ground	a container turns over, and not to fall during the transportation. When coming under Fire Defense Law, Industrial Safety and Health Law, Poisonous Material Control Law, follow transportation method set as the respective relevant laws.	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Marine Airlines Emergency Response Guidebook number	According to follow the Aviation Law. According to follow the Aviation Law. Not applicable (Container Yellow Card number)	2. 中国新闻的新闻,新闻的大学和中国的人名英格兰人姓氏克尔尔的英语名
5.Regulatory Information The Fire Laws and a danaerous article Export Trade Control Order	Class & Petroleum No. 3 Controlled subjects and Petroleum Material Control Law 11 its relevant about 16 endine actioned acout 1-15 sections.	(金融新文化)(10-10-10-10-10-10-10-10-10-10-10-10-10-1
S. 18 197 1	item name not applicable	the state of the s
6.Other information References	http://www.laish.gr.jolindex.html Hazard communication of chemicals based on GHS-Labelling and Safety	
	Data Sheet(SDS) JIS Z 7253:2012 Classification of chemicals based on "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)" JIS Z 7252:2014 etc.	Mat Tokunga

	IVERSAL DTONICS PRPORATED			EET HICKSVILE, NEW YORK 11801 935.4000 FAX 516.935.4039 WWW, UNIVERSALPHOTONICS. COM		IVERSAL 495 West Joines Strett Hickonius, New York 11807 DTONICS 516.935.4000 F.w. 516.935.4039 WWW.UNIVERSITIED
	MATERIAL SAFE	TY DATA SHEE	T: Polishing	g Liquid ZOX-N		MATERIAL SAFETY DATA SHEET: Polishing Liquid ZOX-N
SECTION 1: CHEMICAL PR	ODUCT & COMPANY IN	FORMATION			INHALATION:	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
APPLICABLE PART #: BCO	015, BC00155	IDENTITY:	Polishing Liquid Z0	OX-N	INGESTION:	Drink plenty of water. Do not induce vomiting. Consult a physician if necessary.
SUPPLIER: Universal Phi 495 West Joh	in Street	CUSTOMER		16) 93	NOTES TO PHYSICIAN.	Treat symptomatically.
Hicksville, NY		DATE PREP		ine 23, 2014	SECTION 5: FIRE FIGHTIN	NG MEASURES
EMERGENCY TELEPHONE NUMB	ER	1-866-519-	4752 3E COMPAN	NY - ACCT#: 3665	FLASH POINT:	Non-combustible.
SECTION 2: COMPOSITION	INFORMATION				UNUSUAL HAZARDS	None known.
F	COMPONENT	CAS#	WEIGHT %		EXTINGUISHING MEDIA:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
	Water	7732-18-5	70-75		HAZARDOUS DECOMPOSITION	None reasonably foreseeable.
[Zirconium basic	57219-64-4	20-30		PRODUCTS IN FIRE	None reasonably foreseeable.
	Zirconium basic carbonate Zirconium dioxide	57219-64-4 1314-23-4	20-30 10-20	_	PRODUCTS IN FIRE SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS	None reasonancy roreseeaue. As in any fire, wear self-contained breathing apparatus (pressure-demand, NIOSH approved or equivalent) and full protective gear.
This product contains trace qu Overexposure by inhalation to observance of the OSHA limit regulatory limits established f	carbonate Zirconium dioxide uantities of naturally occur respirable dusts containin for respirable dusts of 5 m	1314-23-4 ring radioactive urani ng uranium, thorium a	10-20 um, thorium and r nd radium may ca	use cancer, however,	SPECIAL PROTECTIVE EQUIPMENT	As in any fire, wear self-contained breathing apparatus (pressure-demand, NIOSH approved or equivalent) and full protective gear. RELEASE MEASURES Remove all non-essential people from the affected area. Ensure adequate ventilation. In
Overexposure by inhalation to observance of the OSHA limit regulatory limits established f	carbonate Zirconium dioxide uantities of naturally occur respirable dusts containin for respirable dusts of 5 m or these components.	1314-23-4 ring radioactive urani ng uranium, thorium a	10-20 um, thorium and r nd radium may ca	use cancer, however,	SPECIAL PROTECTIVE EQUIPMENT FOR FREFIGHTERS. SECTION 6: ACCIDENTAL	As in any fire, wear self-contained breathing apparatus (pressure-demand, NOBH approved or equivalent) and full protective gear. RELEASE MEASURES
Overexposure by inhalation to observance of the OSHA limit	carbonate Zirconium dioxide uantities of naturally occur respirable dusts containin for respirable dusts of 5 m or these components.	1314-23-4 rring radioactive urani ng uranium, thorium a ng/m ³ will ensure the u	10-20 um, thorium and r nd radium may ca	use cancer, however,	SPECIAL PROTECTIVE EQUIPMENT FOR FREFIGHTERS. SECTION 6: ACCIDENTAL	As in any fire, wear self-contained breathing apparatus (pressure-demand, NOSH approved or equivalent) and full protective gear. RELEASE MEASURES Remove all non-essential people from the affected area. Ensure adequate ventilation. In case of Insufficient ventilation, arear suitable respiratory equipment. Avoid contact with akin, eyes and clothing. Wear personal protective equipment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or saintary severe system. Do tailow material to contaminate
Overexposure by inhalation to observance of the OSHA limit regulatory limits established f SECTION 3: HAZARDS IDE	carbonate Zirconium dioxide uantities of naturally occur respirable dusts containin for respirable dusts of 5 m or these components.	1314-23-4 rring radioactive urani ng uranium, thorium a ng/m ³ will ensure the u	10-20 um, thorium and r nd radium may ca	use cancer, however,	SPECIAL PROTECTIVE ESUPWENT TOR HERITORTERS SECTION 6: ACCIDENTAL PERSONAL PRECAUTIONS EXVIRONMENTAL PRECAUTIONS	As in any fire, war self-contained breathing apparatus (pressure-demand, NIOBH approved or equivalent) and hill protective gear. RELEASE MIASSURES REMOVED an onn-essential propile from the affected area. Ensure adequate ventilation. In case of insufficient ventilation, wars suitable respiratory equipment. Avoid contact with shin, yees and childing, Ware presenting inforcibine equipment. Prevent product from entering drains. Do not distribute and approximation of the second system. Do not allow material to containinate ground water system.
Overexposure by inhalation to observance of the OSHA limit regulatory limits established f SECTION 3: HAZARDS IDE PRINCIPLE ROUTES OF EXPOSURE	carbonate Zirconium dioxide uantifies of naturally occur for respirable dusts of 5 m of these components. NITIFICATION Inhalation, ingestion, s May cause initiation. Not absorbed through	1314-23-4 ring radioactive urani guranium, thorium a ggm ³ will ensure the u skin and eye contact. skin. May cause drym	10-20 um, thorium and ra di radium may ca se of this product	use cancer, however, to be well below the	SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: SECTION 6: ACCIDENTAL PERSONAL PRECAUTIONS:	As in any fire, war self-contained breathing apparatus (pressure-demand, NIOBH approved or equivalent) and hill protective gear. RELEASE MIASSURES REMOVED ano resential propile from the affected area. Ensure adequate ventilation. In case of insufficient ventilation, wars suitable respiratory equipment. Avoid contact with skin, eyes and childing. Ware provide protective equipment. Prevent further leakage or spillage If safe to do so. Prevent product from entering drains. Do not final hilting ventilation or sanitary seven system. Do not allow matcriat to contaminate ground water system.
Overexposure by inhibition to observance of the OSHA limits regulatory limits established f SECTION 3: HAZARDS IDE PRINCIPLE NOTES OF EXPOSISE EVEN: Desn: Inselatore:	carbonate Zirconium dioxide uantities of naturality occur respirable dusts of 5 m of these components. NTIFICATION Inhalation, ingestion, s May cause irritation. Not absorbed through Breathing of mists, vag	1314-23-4 ring radioactive urani ng uranium, thortum ang ggim ³ will ensure the u kin and eye contact. skin. May cause drym pors, or fumes may irr	10-20 um, thorium and ra di radium may ca se of this product	use cancer, however, to be well below the	SPECIAL PROTECTIVE ESUPWENT TOR HERITORTERS SECTION 6: ACCIDENTAL PERSONAL PRECAUTIONS EXVIRONMENTAL PRECAUTIONS	As in any fire, war self-contained breathing apparatus (pressure-demand, NIOBH approved or equivalent) and full protective gear. RELEASE MLASSURES Renove all non-sensential people from the affected area. Ensure adequate werdilation, in case of husdfinent werdilation, ware suitable resplayatory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Prevent further leakage or spillage If safe to do so. Prevent product from entering drains. Do not fluch into surface water or sanitary sever system. Do not allow material to contaminate ground water system. Wear personal protective equipment. Absorb spill with innet material (e.g. dry sand or earth), then place in a chemical waste container. Clean contaminated surface thorsughly. Dispose of prompty.
Overeizgosure by Inhibitation to observance of the OSHA limit regulatory limits established f SECTION IS: HAZARDS IDE Principal pourtes of Exposure Evise:	carbonate Zircorium doxide antities of naturally occur. Torrespinable dusts of a of these components. STIFICATION Inhalation, ingestion, s May cause initiation. Not absorbed through Breathing of mists, vag May initiate digestive to	1314-23-4 ring radioactive urani ng uranium, thortum a gigm" will ensure the u kin and eye contact. skin. May cause drym pors, or fumes may irr ract.	10-20 um, thorium and ri and radium may ca se of this product ess and/or abrasis itate the nose, thre	use cancer, however, to be well below the	ВРЕСИ, ИНОТЕСТИТЕ ВОИРМЕНТ ТКВ РЕКЛЮТЕРЗІ ВЕСТТОМ СК АССІДЕНТАЦ РИВОНИ, ПРЕСИЛТОНІ ЕМИКОМЕЛІК, РИВСИЛТОНІ ЕМИКОМЕЛІК, РИВСИЛТОНІ МЕТНОСЕ ГОК СДАНИКО ЦТ:	As in any firs, war self-contained breathing apparatus (pressure-demand, NOBH approved or equivalent) and ful protective gear. RELEASE MIASULES Remove all non-essent ploople from the affected area. Ensure adequate verification. In case of institutient verification, were suitable respiratory requipment. Avoid contact with skin, yes and clothing Were personal protective equipment. Prevent further devago or spillage in size to do so, Prevent protect from entering drains. Do no flush into surface water or sanitary sever system. Do not allow material to contaminate ground water system. Wear personal protective equipment. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical weste container. Clean contaminated surface thoroughly, Dispose or promptive. STORACE Hindie in accordance with good industrial hygiens and safety practice. Use only in rea provided with appropriate enhance wester thorough practice. Use only in rease provided with appropriate enhance westing hybriding approximation approved by the propriate enhance provides with appropriate enhance wester provides with appropriate enhance wester provides with appropriate enhance wester set of insufficient versition, were set of insufficient versition of the set of insufficient versition, were set of the set of the se
Overeizosure by Inhakation to Observance of the OBHA limit regulatory limits established f SECTION 3: HAZARDS IDE Prescince of Biological Prescince of Biological Bio	exhome Zrconium dioxide Autorites of nature ally occur respirated duxis contains of an or these components. NHTIFLATION Inhalation, ingestion, si May cause initiation. Not absorbed through Breating of mists, va May initize digestive to Tubis product cause.	1314-23-4 ring radioactive urani ng uranium, thortum a gigm" will ensure the u kin and eye contact. skin. May cause drym pors, or fumes may irr ract.	10-20 um, thorium and ri and radium may ca se of this product ess and/or abrasis itate the nose, thre	use cancer, however, to be well below the	Breck, INSTECTIVE BOUPMENT NO PREPORTESS: SECTION 6: ACCIDENTAL PRESON, PRESUMONS: ENVROMENTA, PRESUMONS: METHODS FOR CLEANING UN: SECTION 7: HANDLING &	As in any fire, war self-contained breakhing apparatus (pressure-demand, NIOBH approved or equivalent) and hit proceedive gate. RELEASE INEASURES Remove all non-sestinal people from the affected area. Ensure adequate verification, in case of insufficient verification, wars stable respiratory equipment. Avoid contact with also, eyes and during, Wars Personal protective equipment. Avoid contact with any eyes and colling, Wars Personal protective equipment. Avoid contact with one final into a stable or sanitary ever system. Do not allow material to contaminide ground water system. Wars present spotective equipment. Absorb spill with into tradenial (e.g. dy sand or earthin, any protective equipment. Absorb spill with internative lique, dy used or earthin, any protective equipment. Absorb spill with internative lique, by used or earthin, any protective equipment. Absorb spill with internative lique, by used or earthin, and the in accordance with good inclusted al hypeins and aftery practice. Use only in eng spineter respineters. Do not at during or sone of use or during the protective equipment. Do not at during the respineter. Do not at during the spineter lique of the spineter lique equipment. STORNOR
Overespose e by Inhaladio for Observance of the OBHA limit regulatory limits established f SECTION 3: HAZARDA IDE Bancine inoversion exposure Eves: Ev	cathonate Zirconium dioxide autifies of nature ily occur respirate duxis contain for respirate duxis of an or these components. NTIFICATION Inhalation, ingestion, s May cause initiation. Not absorbed through Breathing of misst, vag May initiate digestive to This product contains Ausy grandomas.	1314-23-4 ring radioactive urani ng uranium, thorium an guranium, thorium an guranium, thorium, thorium will ensure the urani klin and eye contact. skin. May cause drym pors, or fumes may irr ract. zirconium dioxide. Zir	10-20 uns, thoritum and ri ardaum may ca se of this product ess and/or abrasis tate the nose, thro conium dioxide ha	use cancer, however, to be well below the	Breck, INSTECTIVE BOUPMENT NO PREPORTESS: SECTION 6: ACCIDENTAL PRESON, PRESUMONS: ENVROMENTA, PRESUMONS: METHODS FOR CLEANING UN: SECTION 7: HANDLING &	As in any fire, war self-contained breathing apparatus (pressure-demand, NIOBH approved or equivalent) and hill proteive gear. RELEASE INERSURES Remove all no-searchill people from the affected area. Ensure adequate worklation. In case of insufficient vertiliation, wars suitable respiratory equipment. Avoid contact with adding, year and colling, Ware presonal protective equipment. Avoid contact with prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do no flach into suffice water or sanitary sever system. Do not allow material to contaminate ground water system. Ware presonal protective equipment. Absorb spill with inter material (e.g. dry sand or earth), then place in a recordance with good industrial hygiens and safety practice. Use only in are suitable respiratory equipment. Avoid contact with silvi, yeas and dorling, ware presonal suitable respiratory equipment. Avoid contact with silvi, prese and dorling, ware presonal suitable respiratory equipment. Avoid contact with silvi, prese and dorling, ware presonal suitable respiratory equipment. Avoid contact with silvi, prese and dorling, ware presonal suitable respiratory equipment. Avoid contact with silvi, prese and dorling, ware presonal suitable respiratory equipment. Avoid contact with silvi, prese and dorling, ware presonal suitable respiratory equipment. Avoid contact with silvi prese and dorling. Ware presonal suitable respiratory equipment. Avoid presender dorling ware and presender ware presonal suitable respiratory equipment. Avoid presender dorling ware presonal suitable respiratory equipment. Avoid avoid avoid silvi silvi presender dorling ware presonal suitable respiratory equipment. Avoid presender dorling ware suitable respiratory equipment. Avoid contact with silvi presender dorling ware suitable respiratory equipment. Avoid contact with silvi presender dorling ware suitable respiratory equipment. Avoid contact with silvi presender dorling ware suitable
Overeignose e by Inhaladio to Observance of the OBHA limit regulatory limits established SECTION 3: HAZARDS IDE Practicus pources of purposare instructions of the OBHA Device Sectors Sectors Characteristic Ascendencer SECTION 4: FIRST AID ME	exhome Zrocnium dioxide matties of nature ally occur respirated duxis contain or these components. NITIFICATION Inhalation, ingestion, si May cause initiation. Not absorbed through Breatring of mists, vay May initiate digestion, si Tuing granulomas. AsURES Revelops.	1314-23-4 ring radioactive urani ng uranium, thorium an guranium, thorium an guranium, thorium and will ensure the urani klin and eye contact. skin. May cause drym pors, or fumes may inr ract. zirconium dioxide. Zir h plenty of water, also	10-20 um, thorium and ra dradium may ca se of this product ess and/or abrasis ess and/or abrasis tate the nose, thro conium dioxide ha under eyelids. Ge	use cancer, however, to be well below the on. at and lungs.	GRECH, INSTECTIVE EDUPMENT PRESENCESS; SECTION 6: ACCIDENTAL PRESENCE RECHTORS ENVIRONMENTA, PRESENTORS METHORS FOR CLEANING UP: SECTION 7: HANDLING S HANCENS;	As in any fire, war self-contained breathing apparatus (pressure-demand, NIOBH approved or equivalent) and hill protective gear. RELEASE INERSURAES Remove all non-second propile from the affected area. Ensure adequate ventilation, in case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with alkin, yees and childring. Ware prevane protective equipment. Avoid contact with and the suitable suitable of the suitable suita

	HOTONICS	435 W	Ist JOHN STREET HICKSWILE, New YORK 11801 516.935.4000 FAx 516.935.4039 www.UNIVERJUPHOTONICS.COM		IVERSAL 495 West John Street Hicksnut, New York 1 DTONICS 516,935,4000 Fox 516,935, DRPORATED WWW.UNIVERSITYFICTORIC
	MATERIAL	SAFETY DATA SHEET: P	olishing Liquid ZOX-N		MATERIAL SAFETY DATA SHEET: Polishing Liquid ZOX-N
ENGINEERING CONTROLS			lust, mist, vapors, or fumes can be y showers are proximal to the work-	TARGET ORGAN EFFECTS: ZIRCONUM BASIC CARBONATE	Zirconium: Skin, respiratory system.
EVE PROTECTION:	Safety glasses	with side-shields.		LD50s AND LC50s:	Oral LD50 (Rat) = 10000 mg/kg
SKIN AND BODY PROTECTION	Lightweight pr	otective clothing. Keep working clot	hes senarately. Remove and wash	SECTION 12: ECOLOGICAL	LINFORMATION
HAND PROTECTION:	contaminated o	clothing before re-use.	iven by the manufacturer of protective	AQUATIC TOXICITY:	Information given is based on data on the components and the ecotoxicology of simila products.
HAND PROTECTION.	gloves.	ves. Pollow the recommendations g	wen by the manufacturer of protective	PERSISTENCE AND DEGRADABILITY:	Not determined.
RESPIRATORY PROTECTION:	respirators sho	ould be worn where engineering con	piratory equipment. NIOSH-approved trols and work practices do not reduce	SECTION 13: DISPOSAL IN	FORMATION
HYGIENE MEASURES	use. Wear NIOS	SH approved respirator to limit expo	dvice prior to respirator selection and sure to NORM ands before breaks and at the end of	WASTE FROM RESIDUES / UNUSED PRODUCTS:	Waste must be disposed of in accordance with federal, state and local environmental control regulations. Where possible recycling is preferred to disposal or incineration. product contains Naturally Occurring Radioactive Materials (NORM). Consult and com with current regulations.
SECTION 9: PHYSICAL	AND CHEMICAL PR	ROPERTIES		SECTION 14: TRANSPORT	ATION INFORMATION
COLOR	Pink	PHYSICAL STATE	Sluny	DOT (U.S.)	
ODOR	Odorless	MOLECULAR WEIGHT	No data available	PROPER SHIPPING NAME.	Not regulated.
BOILING POINT/RANGE ("C)	212.0	PH	6.0	TDG (CANADA)	
FREEZING POINT/RANGE (*C)	No data available	SPECIFIC GRAMTY (WATER =1)	No data available	PROPER SHIPPING NAME	Not see a fait of
VAPOR PRESSURE (MMHG)	No data available	VOC CONTENT (%)	0	0.004040.00040.00040.00040.00040.00040.00040.00040.00040.00040.00040.00040.00040.00040.00040.00040.00040.00040	Not regulated.
WATER SOLUBILITY (MG/L)	Insoluble			IMDG	
SECTION 10: STABILIT	Y & REACTIVITY			PROPER SHIPPING NAME:	Not regulated.
CHEMICAL STABILITY:	Stable at norm	al conditions		IATA	
				PROPER SHIPPING NAME	Not regulated.
INCOMPATIBILITY:	Strong Oxidizir	ng Agents.		SECTION 15: REGULATOR	Y INFORMATION
HAZARDOUS DECOMPOSITION PRODUCTS:	None reasonab	bly foreseeable.		US REQULATIONS	Not subject to the provisions of SARA 313
HAZARDOUS POLYMERIZATION:	Will not occur.				Not subject to TSCA 12(b) Export Notification
CONDITIONS TO AVOID	None known.			STATE REGULATIONS:	This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and California Prop 65 supplier notification requirements. Substances that are subject to
SECTION 11: TOXICOL	DGICAL INFORMATI	10N			notification requirements, if any, are listed below.
Acute toxicity:	Information giv	ren is based on data on the compon	ents and the toxicology of similar products		
				1	



Part viii: contact control/personal protection	Part xi: toxicological information
Occupational exposure limits	Acute toxicity: no toxicity.
Chinese MAC(mg/m3) : no standards have been set	LC50: no data available.
Former Soviet MAC(mg/m3): no standards	Subacute and chronic toxicity: no data available.
TLVTN: no standards set	Irritant: no data available.
TLVWN: no standards have been set	Sensitization: no data available.
Monitoring method	Mutagenicity: no data available.
Engineering control: provide safe shower and eye wash equipment.	Teratogenic: no data available.
Eye protection: wear chemical safety goggles.	Carcinogenicity: no data available.
Physical protection: no special requirement.	
Hand protection: flush with plenty of water.	Part xii: ecological information
Other protection: smoking, eating and drinking water are prohibited at work. After work, shower	Ecological toxicological toxicity: no data available.
and dress. Maintain good hygiene.	Biodegradability: no data available.
LITE OF ALL ALL MARKED AND ALL ADD IN ADDITION	Non-biodegradability: no data available.
Part nine: physical and chemical characteristics	Biological enrichment or bioaccumulation: no data available.
Ingredient: pure product	Other harmful effects: no data available.
Appearance and properties: white powder or translucent particle.	
PH: 6.0 -12.0	Part xiil: waste disposal
Melling point ('C) : 398-3 h2o)	Nature of waste:
Bolling point (\mathbb{C}) : no data	Disposal method: wash the packaging with water without violating the traditional treatment
Relative density (water =1) : 2.68	rules, and then use the water to dissolve the product for use.
Relative vapor density (air =1) : no data available	Notice of abandonment: relevant national and local regulations should be consulted before
Saturated vapor pressure (kPa) : no data available	disposal.
Heat of combustion (kJ/mol) : nonsense	
The critical temperature ('C) : nonsense	Part xiv: transportation information
Critical pressure (MPa) : meaningless	Dangerous goods no. : no data available.
Opposite value of octanol/water distribution coefficient: no data available	UN no. : no data available.
The flash point (°C) : nonsense	Packing mark: no data available.
The ignition temperature { C } : nonsense	Packing method : paper bag or drum, 25KG one bag, polyethylene liner bag.
Explosion limit %(V/V) : meaningless	Shipping instructions: the packaging should be complete and the loading should be safe. Avoid
Explosion threshold %(V/V) : meaningless	exposure and rain during transportation. The vehicles should be thoroughly cleaned after
Solubility: soluble in water, but almost insoluble in the solvent (benzene, toluene, ethanol, ethyl	transportation.
ether, acetone, esters, etc.), only in ethylene glycol, glycerin, glacial acetic acid and formamide,	
lactic acid, such as acrylic solvents that can be dissolved by about 1%.	Part 15: regulatory information
Main use: for sewage treatment.	According to gb13690-2009 classification and marking of commonly used dangerous chemicals,
and a second control of the second of the second	this product is not dangerous.
Part 10: stability and reactivity	second we be the best of the state of the st
Stability: stability.	Part xvi: other information
Prohibited compounds: axides that produce exothermic reactions.	Date of completion: March 13, 2018.
Conditions for avoiding contact: none.	Filling out department: technical center
Polymerization hazard: no polymerization.	Revision instructions: every five years when a new national regulation is introduced.
Decomposition products: hot putrefaction may be produced, hydrogen gas, nitrogen oxides,	
carbohydrates, etc.	

Guangzhou xinzhuo chemical co. LTD Polyaluminium chloride (PAC) safety to hnical specification

Part I: chemicals and enterprise identification Chemical Fame; poly aluminum chloride, poly aluminum chloride, water purifier Chemical English name: Aluminium trichloride, PAC Technical specification code: x::1831 Company name; guangzhou ximbuo chemical co. UTD Address: no. 722 east huanggu road; guangzhou city Tel: 86-20-32372813 fan: 86-20-3372632 National Admention actional comencement valutions: Mathems. 86: 0723-2882000 National chemical accident emergency advisory hotline: 86-0532-3889090

Part two: risk overview Risk category: according to gb13690-2009 classification and marking of commonly used dangerous chemicals, this product is not classified at dangerous semicals, this product is nirale set invasion: inhalation, logistion, skin contact. Health hazird: this product can irrate skin and mucous membrane. Inhaling high concentrations can cause bronchitis, and individuals can cause bronchial asthma. Oral erosion, gastritis, gastric bleeding and mucosal necrosis can be caused when the dosage is large. Chronic effects: long-term opposure can cause headehch, dizziness, loss of appetite, cough, nasal congestion, chest pain and other symptoms. Finvingeneral barativ: on bohiess barards. Part two: risk overview mental hazards: no obvious hazards Enviro Fire and explosion hazard: this product does not burn

Part three: component/component informat The main component content CAS No Aluminum chloride 28% 1327-41-9

Part four: first aid measures

Skin contact: immediately remove contaminated clothing and rinse with plenty of running water for at least 15 minutes. Go to a doctor. Eve contact: immediately lift the evelid and rinse thoroughly with plenty of running water or saline for at least 15 minutes. Go to a doctor. same for at tears 15 mmutes. Go to a a accisor. Initializins: quickly disengage from the scene to the fresh air. Keep the airways open. If you have difficulty breathing, give oxygen. If breathing is stopped, artificial respiration is carried out immediately, Go to a doctor Food gargle with water and serve with milk or egg white. Go to a doctor.

Part five: fire control measures Fail the "intervalued measures" Haard characteristics: no data available Hamful combustion products: no data available. Fire estinguishing method: fire personnel must wear the whole body acid-proof alkali fire fighting suit. Extinguishing agent: dry sand.

Part ski: leakage emergency treatment Emergency: treatment: leokar, and existict the access. Emergency workers are advident to were a due mark (full occess) and were add-proof dothing. Basic work dothes. Do not contact the leak tirethy. Small amount of leakage: avoid dust and collect in a doteer containsr with a datem shoet. Heavy leakage: covered with plasik sheets and canvas. Remove under expert guidance.

Part vii: operation, disposal and storage Operating instructions: closed operation, local exhaust ventilation. Operators must be specially trained and strictly follow the operating procedures. Operators are advised to wear self-suction filter respirator, chemical safety protective glasses, rubber add-proof alabilitie suit and rubber add-proof glaves. Keep away from inflammable and combuilde materials. Avoid procuring dust. Avoid consist with alial and adabilit. Light loading and light unloading should be carried to prevent damage to the packaging and continer. Foulpped with leakage emergency treatment eucliment. Empty containers can leave harmful residue.

prevent womape to the paradage and counter, coupley own reading energies v counters equipment. Empty containers can heave harmful residue Storage precautions: store in a cool, dry, well-venitated warehouse. Keep away from fire and hear. The relative humidry means theory 756. The package must be called against motivus. It should be stored separately from inflammable, alkali, alcohol, etc. Do not store for long to avoid deterioration. The storage area shall be equipped with suitable materials for the containment of the leakage.

Cocupational exposure limits Chinese MAC(mg/m3) : no standards have been set Former Soviet MAC(mg/m3) : 2[AI] TLVTN: ACGIH 2 mg/m3 TLVWN: no standards have been set Monitoring method

Engineering control: closed operation, local exhaust ventilation. Safety shower and eve wash facilities are provided. Respiratory protection: when the dust may come into contact with it, you should wear a self-suction filter respirator. When emergency rescue or evacuation, it is recommended to wear

an air respirator

Part viii: contact control/personal protection

an air reginator. Eye protection: wear chemical safety goggles. Physical protection: wear rubber acid-proof alkaline suit. Hand protection: wear rubber acid-proof gloves. Other protection: smoking, eating and orinking water are prohibited at work. After work, shower and dress. Store contaminated clothes separately for backup use. Maintain good hygiene.

Part nine: physical and chemical characteristics

Part nine: physical and chemical characteristics Ingredient: pure product Appearance and properties: yellow granular or powdered solid. PH: 3.5-5 Melling point (°C) : 190 (253 kpa)

Boiling point (°C) : no data	Notice of abandonment: relevant national and local regulations should be consulted before
Relative density (water =1) : 2.44	disposal.
Relative vapor density (air =1) : no data available	
Saturated vapor pressure (kPa) : 0.13 (100 °C)	Part xiv: transportation information
Heat of combustion (kl/mol) : nonsense	Dangerous goods no. : no data available.
The critical temperature ('C) : no data	UN no. : no data available.
Opposite value of octanol/water distribution coefficient: no data available	Packing mark: fear of dampness.
The flash point (°C) : nonsense	Packaging category: Z01.
The ignition temperature (°C) : nonsense	Packing method: 25kg plastic woven bag lined with polyethylene bag
Explosion limit %(V/V) : meaningless	Shipping instructions: the packaging should be complete and the loading should be safe. In the
Explosion threshold %(V/V) : meaningless	course of transportation, we must ensure that the container does not leak, collapse, fall or
Solubility: soluble in water, alcohol, chloroform, carbon Letrachloride, slightly soluble in benzene.	damage. It is strictly prohibited to mix with inflammables, inflammables, alkali, alcohols, food
Main applications: polyaluminum chloride is a flocculant, mainly used for purifying drinking water,	chemicals, etc. Transport vehicles should be equipped with leakage emergency handling
and also used for special water treatment of water supply, iron removal, cadmium removal,	equipment. Transport should be protected from exposure, rain, high temperature
fluoride removal, radioactive pollution removal, oil removal, etc. It is also used in industrial	
wastewater treatment, such as printing and dyeing wastewater.	Part 15: regulatory information
	According to gb13690-2009 classification and marking of commonly used dangerous chemicals,
Part 10: stability and reactivity	this product is not dangerous.
Stability: stability.	
Prohibited substances: inflammable or combustible materials, alkali and alcohol.	Part xvi: other information
Conditions to avoid contact: moist air.	References: gb13690-2009 classification and marking of commonly used hazardous chemicals,
Polymerization hazard: no polymerization.	GB/ 116483-2008 chemical safety technical specifications and project sequence
가 밖에 있다. 가는 다음 가지 않는 것은 것이 가 있었다. 이가 가 있었다.	Date of completion: March 7, 2018.
Part xi: toxicological information	Filling out department: technical center
Acute toxicity: LDS0:3730 mg/kg(rat via mouth)	Revision instructions: every five years when a new national regulation is introduced.
LC50: no data available.	
Subacute and chronic toxicity: no data available.	
Irritant: no data available.	
Sensitization: no data available.	
Mutagenicity: no data available.	
Teratogenic: no data available.	
Carcinogenicity: no data available.	
Part xii: ecological information	
Ecological toxicological toxicity: no data available.	
Biodegradability: no data available.	
Non-biodegradability: no data available.	
Biological enrichment or bioaccumulation: no data available.	
Other harmful effects: no data available.	
Part xiii: waste disposal	
Nature of waste: general waste.	
Disposal method: according to the requirements of relevant national and local laws and	
regulations. Or contact the manufacturer or manufacturer to determine the cisposal method.	

1.				Distinction between Su
	Identification of the Subst	tance/Preparation and of the Company		Chemical Name/Gener
	Product Name	NEOVAC MR-200		Chemical Formula
	Product Code	00013		Ingredient and Concen
	Manufacturer	MORESCO Corporation.		
	Address	5-5-3, Minatojima-minamimachi, Chuo-ku, Kobe-city, Hyogo, Japan	4.	First-Aid Measure
	Emergency Telephone Number			Inhalation:
		Tel: 81-6-6262-3310 FAX: 81-6-6262-3327		
		Functional Fluids Sales Department Tokyo Sales Section		
		Tel: 81-3-5537-7055 FAX: 81-3-5537-7059		Skin Contact:
		Lubricating Oils Manufacturing Department Technology Section		Eye Contact:
		Tel: 81-791-42-2100 FAX: 81-791-43-3179		
		Customer Center		
		Tel: 81-6-6262-3385 FAX: 81-6-6262-3327		Ingestion:
	Recommended Use and	Email Address: customercenter@moresco.co.jp Vacuum Pump Oil		
	Restrictions on Use	vacuum Pump On		Expected Acute and
	Restrictions on Ose			Delayed Symptoms, at
2.	Hazard Identification			Most Important Sympt Effects:
	GHS Classification:			Mireoux:
	Physical Hazards	Not applicable to the GHS Classification	5	Fire-Fighting Mea
	Health Hazards	Not applicable to the GHS Classification		Suitable Extinguishing
	Environmental Hazards	Not applicable to the GHS Classification		Unsuitable Extinguish
	Hazardous to Aquatic Env			Specific Hazards
				Specific Fire-Fighting
	Label Elements:			
	Pictograms/Symbols	None		
	Signal Word	None		
	Hazard Statements	None		
	Precautionary Statements	[Prevention]		
		None		Special Protective Act.
		[Response]		Fire-Fighting
		None		
		[Storage]	1000	
		None	6.	Accidental Release
		[Disposal]		Personal Precautions.
		None		Equipment and Emerg

6. Composition/Information of	n Ingredients
Distinction between Substance an	0
Chemical Name/Generic Name :	Petro-hydrocarbons
Chemical Formula :	Not identified
Ingredient and Concentration	Lubricating base oil 100%
. First-Aid Measures	
Inhalation:	Remove victim to fresh air and let him rinse mouth thoroughly with water.
	Wrapping a blanket and the like around him to keep warm for a rest, call a
	doctor/physician immediately.
Skin Contact:	Rinse skin with soap and water.
Eye Contact:	Immediately rinse eyes with clean water for at least 15 minutes. Remove
	contact lenses if present. Continue rinsing if eye irritation persists, get medica attention.
Ingestion:	Call a doctor/physician immediately. Do not induce vomiting.
in Designation	If affected, the mouth should be rinsed out thoroughly with water
Expected Acute and	If swallowed, may suffer from diarrhea and vomiting.
Delayed Symptoms, and	May cause inflammation if in eyes.
Most Important Symptoms/	May cause inflammation if on skin.
Rffeats:	May feel unwell if mist is inhaled.
. Fire-Fighting Measures	
Switzblo Extinomishing Maria	Konny ramfuraine sourt fram namelar or aarban diavida
Suitable Extinguishing Media	Poggy reinforcing agent, foam, powder, or earbon dioxide
Unsuitable Extinguishing Media	Jet water
Unsuitable Extinguishing Media Specific Hazards	let water Currently there is no useful information
Unsuitable Extinguishing Media	Jet water Currently there is no useful information. Shut off the fire source.
Unsuitable Extinguishing Media Specific Hazards	Jet water Currently there is no useful information. Shut off the fire source. Use powder or earbon disorde cetinguishers at the beginning at fire
Unsuitable Extinguishing Media Specific Hazards	Le water Currently there is no useful information. Shut off the fire source. Use power or authon discussive extinguishers at the beginning of fire It is effective to intercept the air from a hig fire with foan
Unsuitable Extinguishing Media Specific Hazards	Let water Currently there is no useful information. Shut off the fire source. Use powder or entron diaxide extinguishers at the beginning of fire It is effective to intercept the air from a big fire with four extinguishers. Use of water may enuse spreading of fire.
Unsuitable Extinguishing Media Specific Hazards	Let water Currently there is no useful information. Shut off the fire source. Une powder or earbon disorde extinguishers at the beginning of fire. It is effective to intercept the air from a hig fire with four extinguishers. Use of water may ensus operating of fire. Cool the surrounding facilities with water aparty.
Unsuitable Extinguishing Media Specific Hazards Specific Hiro-Frighting Measures	Le water Currently there is no useful information. Shut off the fire source. Use power or earbon districke extinguishers at the beginning at fire. It is effective to intercept the air from a big fire with four extinguishers. Use of water may easies spreading of fire. Cool the sumonding facilities with water gamp. Evacuate non-easential personnel around the fire.
Unsuitable Extinguishing Media Specific Hazards Specific Fire-Fighting Measures Special Protective Actions for	Let water Currently there is no useful information. Shut off the fire source. Use powder or anthon diaxide certinguishers at the beginning of fire. It is effective to interespt the air from a big fire with four excitinguishes. Use of water may make spreading of fire. Cool the surrounding facilities with water spray. Evacuate non essential personnel around the fire. Wearing protective glasses, protective obtaing, and if meressary
Unsuitable Extinguishing Media Specific Hazards Specific Hiro-Frighting Measures	Le water Currently there is no useful information. Shut off the fire source. Use power or earbon districke extinguishers at the beginning at fire. It is effective to intercept the air from a big fire with four extinguishers. Use of water may easies spreading of fire. Cool the sumonding facilities with water gamp. Evacuate non-easential personnel around the fire.
Unsuitable Extinguishing Media Specific Hazards Specific Fire-Fighting Measures Special Protective Actions for	Let water Currently there is no useful information. Shut off the fire source Use powder or earbon diaxide extinguishers at the beginning of fire It is effective to intercept the air from a hig fire with four extinguishes. Use of water aroy ances spreading of fire. Cool the surrounding facilities with water spreary. Evacuate non-essential presented around the fire. Wasting protective equipment, short to fight fire on the windward sole.
Unsuitable Retinguishing Media Specific Hazarda Specific Fire-Fighting Measures Special Protective Actions for Fire-Highting	Let water Currently there is no useful information. Shut off the fire source. Une powder or earbon diaxide extinguishers at the beginning of fire. It is effective to intercept the air from a hig fire with four extinguishers. Use of water any anaxe spreading of fire. Cool the surrounding faelihies with water aprox Evacuate ron easential personnel arcund the fire. Wating protective gapment, shart to fight fire on the windward side.
Unsuitable Retinguishing Media Specific Hazards Specific Fire-Fighting Meanures Special Protective Actions for Fire-Fighting Accidental Release Measure Personal Presumins, Protective	Let water Currently there is no useful information. Shut off the fire source. Use powder or earbon discuide extinguishers at the beginning af fire it is effective to interneyt the air from a big fire with four extinguishers. Use of water may enuse spreading of fire. Cool the surrounding facilities with water approximation in the surrounding facilities with water approximation bearing potentive galaxies, protective eloidang, and if necessary respiratory protective equipment, start to fight fire on the windward side If skin or eye constet is possible, wear protective equipment. If mist
Unsuitable Ketinguishing Media Specific Hazarda Specific Fire-Fighting Measures Special Protective Actions for Fire-Fighting 5. Accidental Release Measure	Let water Currently there is no useful information. Shut off the fire source. Use powder or earbon discuide extinguishers at the beginning af fire it is effective to interneyt the air from a big fire with four extinguishers. Use of water may enuse spreading of fire. Cool the surrounding facilities with water approximation in the surrounding facilities with water approximation bearing potentive galaxies, protective eloidang, and if necessary respiratory protective equipment, start to fight fire on the windward side If skin or eye constet is possible, wear protective equipment. If mist
Unsuitable Retinguishing Media Specific Hazards Specific Fire-Fighting Meanures Special Protective Actions for Fire-Fighting Accidental Release Measure Personal Presumins, Protective	Let water Currently there is no useful information. Shut off the fire source Use ponder or earbon diaxide excinguishers at the beginning of fire. It is effective to intercept the air from a ling fire with four excinguishes. Use of water array areas spreading of fire. Cool the surrounding facilities with water sprey. Evacuate non easential presented around the fire. Wearing protective galaxies, protective excluding, and if necessary respiratory protective equipment, start to fight fire on the windward side If skin or eye connect is possible, wear protective equipment. If misi threes is produced, wear respiratory protective equipment to avoic

	Date Prepared: October 24, 2014 1KB		Date Prepared: October 24, 2014 1KB
Environmental Precautions	Take up as much as possible to avoid soil contamination and water		As vapors released from petroleum products are heavier than ai
	pollution.		they are liable to stagnate.
	Avoid release to the environment.		Wash hands thoroughly after handling.
Collection/Neutralization	Eliminate the source of ignition of the surrounding.		Use only outdoors or in a well-ventilated area.
and Methods Materials for Containment	In the case of a large amount: Dike ahead of liquid spill area to		Do not eat, drink or smoke when using this product.
	minimize migration and then sweep into an empty container for		Do not press an empty container. It may explode under pressure. Do not drink.
	disposal in a safe place. After disposal, wash away with plenty of water. In doing so, take care to prevent the high concentration of		Keep out of reach of children.
	water, in using so, take care to prevent the righ concentration of wastes from entering public watercourses such as rivers.	Storage:	Reep out of reach of enhancer.
	in the case of a small amount: Take up into an empty container by	Technical Measures	Avoid heat, sparks, flames, and static electricity.
	absorbing the spill with earth and sand or rags, and forthermore sop	Technik at textista es	Keep container tightly closed.
	up with rates thoroughly	Incompatible Materials	Refer to *10. Stability and Reactivity*
Prevention of Secondary Hazards	Remove all the ignition sources immediately. (Do not smoke nearby	Conditions for Safe Storag	
	and keep away from sparks and flames.)		Store avoiding exposure to direct sunlight.
	Report to the related organs for help.		Store away from oxidizer
			Store looked up.
Handling and Storage	4. A start of the start of t	Materials for Containers/P	ackaging When replacing the container, use metal or glass container. Son
Handling:	Before repairing machinery with remnant oils on, remove them		kinds of resin-treated container may melt.
Technical Measures	thoroughly in a safe place. Take precautionary measures against		Use airtight, anti-breakage type containers.
	static discharge and wear electro conductive clothing and shoes.		
	As vapors released from petroleum products are heavier than air,	8. Exposure Controls/Person	
	they are liable to stagnate.		posure Limit, a biological exposure index):
	Due to it, attention should be paid to ventilation and fire. Handle at room temperatures, paying attention to moisture and to	Japan Society for Occupation	
	impurities not to mix with.	ACGIII (2010):	TWA 5mg/ m ³ (mineral oil mist) ²⁰
	If skin or eye contact is possible, wear protective equipment. If mist		ty of Hazardous Substances in Labor Operation Air: Not established
	is produced, wear respiratory protective equipment to avoid	Engineering Controls.	When mist and vapors are produced, seal off sources or provide exhau- ventilation. Facilities for rinsing eyes and washing a body are required near th
	inhalation.		workplace.
	Use a pump and the like to take out of container.	Personal Protective Equipment	
	Do not suck through a tube.	Respiratory Protection:	Wear appropriate respiratory protection
	Do not weld, heat, hole, and cut oll the container. Residues may	Hand Protection:	If necessary, wear oil-resistant protective gloves.
	ignite involving explosion.	Eye Protection:	If diffusion is possible, wear eye protection.
Local Exhaust Ventilation/	Refer to '8. Exposure Controls/Personal Protection',	Skin and Body Protection:	If necessary, wear protective clothing and face protection.
Full Ventilation System		Hygienic Precoutions:	Wash hands thoroughly after handling.
Avoiding Contact	Refer to '10. Stability and Reactivity'.	0.00%	Regularly inspect protective equipment according to the inspection table of
Precautions for Safe Handling	Obtain special instructions before use		protective equipment.
	Do not handle until all safety precautions have been read and		Do not eat, drink or smoke when using this product.
	understood.		
	Be cautious not to use any naked fire.		
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9.	Physical and Chemical Properties		STOT/Systemic Toxicity -	Information is not classified as Specific Target Organ Toxic ity/
	Physical State:		Single Exposure	Systemic Toxicity (Single Exposure)
	Appearance	Liquid	STOT/Systemic Toxicity -	Information is not classified as Specific Target Organ Toxicity/
	Colar	Light yellow	Repeated Exposure	Systemic Toxicity (Repeated Exposure)
	Odor	Slight Oily odor	Aspiration Hazard	Information is not classified as Aspiration Hazard.
	pH	Not applicable		
	Melting/Freezing Point	Not applicable	12. Ecological Information	
	Boiling Point	230°C/13Pa(0.1mmH)	Heotoxicity	information is not classified as Aquatic Toxicity.
	Flash Point	≥250°C(COC)	Persistence and Degradability	No information available
	Explosive Range (Explosive Limits)	Upper limit: 7% Lower limit: 1% (estimated value)	Bioaccumulative Potential	No information available
	Vapor Pressure	No data available	Mobility in Soil	No information available
	Vapor Density (air 1)	No data available	H azardous to the ozone layer	
	Specific Gravity (Density)	0.88g/cm ³ (15°C)	Other Adverse Effects	No information available
	Solubility	Insoluble in water	Environmental Criteria	No information available
	Partition Coefficient: n-octanol/water	No data available		
	Auto-ignition Temperature	No data available	13. Disposal Considerations	
	Pour point	≦-10°C	Waste Residues	Dispose the waste according to national and local regulations.
	Volatility	None (at room (emperatures)		Do not dump.
	1000000		Contaminated Containers	Contaminated or empty container/packaging are to be disposed according to
10.	Stability and Reactivity	En enderleigt (1994) - Alfreisen Hiller (1994) - Ensem Hiller, werd with Black Fielder (1994) - Alfreisen (1994) - Ensem Hiller (19	and Packaging	national and local regulations.
	Stability	Stable		
	Possibility of Hazardous Reactions	Reacts with strong oxidizer.	14. Transport Information	
	Conditions to Avoid	No data available (Hazardnus reactions will not occur under normal	International Regulation	
		use)	UN Classification	Not applicable
	Incompatible Materials	Strong oxidizer	Special Precautions	Load the containers in a manner that they are certain not to result in dire
	Hazardous Decomposition Products	None		sunlight exposure, damage, corrosion, leak, while heing transported.
				Do not place heavy load on top of the container.
11.	Toxicological Information Acute Toxicity:		15. Regulatory Information	
	Oral	ATEmis(Oral)>5000mg/kg	No Information	
	Dermal	ATEmix(Dermal)>5000mg/kg	50 0000 0000 00	
	Inhalstion	ATEmix(Inhalation)>5mg/l.	16. Other Information	
	Skin Corrosion/Irritation	Information is not classified as 8kin Corrosion/Irritation.		tion of Occupational Exposure Limits by Japan Society for Occupational Health
	Serious Eye Damage/Eye Irritation	Information is not classified as Serious Rye Damage/Rye Irritation.	TOP IN A CONTRACT OF A CONTRACT	mit values for chemical substances and physical agents and biological exposu-
	Respiratory or Skin Sensitization	Information is not classified as Bernas internation or Skin Sensitization.	indices by A	
	Germ Cell Mutagenicity	Information is not classified as Germ Cell Mutagenicity.	3) SDS of raw n	
	Carcinogenicity	Information is not classified as Carcinogenicity.	5) SDS DL (aw h	and rais
	Reproductive Toxicity	Information is not classified as Careinogeneity.	1 An an Instantion of Local Land	not necessary satisfactory, special attention should be paid for use.
	Reproductive toxicity	internation is not carsified as representive tokicity.		is necessary subsidering, special administration of product and is intended for rs to he attended to, is required for proper use of the product and is intended for
			2 THIS 5125, Summarizing mane	to as no more and the required on project use of the president and is interfaced to
		5/7		6/7

Date Prepared: October 24, 2014 1KB	
normal use.	Control of the contr
	New Zeeland +64 9929 1483 CO SECTION 2: Hazards identification
	Classification. This product and its ingredients are not considered hazardous in accordance with 29CFR 1910.1200 (OSHA Hazoon 2012)
	Label elements
	Emergency Overview This product and its ingredients are not considered hazardous in accordance with 20CFR 1910.1200 (OSHA Hazoom 2012)
	Appearance clear Physical state liquid Odor Slight
	Precautionary Statements - Prevention Not classified
	Prezutionary Statements - Response Not classified
	Safely data short number: 3240136 Page 1/7
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Precautionary Statements Not classified	- Storage	Partision date: 20-900-2015		Explosion Data Sensitivity to Mechanical Im Sensitivity to Static Dischar	ge none.		
Precautionary Statements Not classified				Protective equipment and preca Wear self-contained breathing app	utions for firefighters paratus and protective suit. Use	personal protective equipm	ent as required.
Hazards not otherwise cla					SECTION 6: Acciden	tal release measure	\$
Not classified				Personal precautions, protectiv	e equipment and emergency p	rocedures	
Other Information Unknown Acute toxicity				Personal precautions	Ensure adequate ventilation	n, especially in confined an	988.
Unknown Aquatic Toxicity				For emergency responders	Use personal protection re	commended in Section 8.	
0.1% of the mixture consists	of components(s) of unknown hazards to the equatic environm	ient		Environmental precautions_			
	SECTION 3: Composition/information on ing	redients		Environmental precautions	Should not be released int	o the environment.	
	been en et composition mitter matter en me	rouento		Methods and material for contai	inment and cleaning up		
chemical		ght-% Trade Secret		Methods for containment	Prevent further leakage or	spillage if safe to do so.	
PETROLEUM HYDROCAI SYNTHETIC HYD LUBRICATING C	ROCARBON - «	*90 * 10 * <1 *		Methods for cleaning up	or other non-combustible a	upment as required. Dam bsorbent material. Take up can contaminated surface th	up. Gover liquid spill with sand, earth mechanically, placing in appropriate toroughly.
* The ex	act percentage (concentration) of composition has been withhe	id as a trade secret			SECTION 7: Hand	lling and storage	
	SECTION 4: First aid measures		E	Precautions for safe handling			
L	SECTION 4: First aid measures			Advice on safe handling	Lise nersonal protective en	uipment as required. Avoid	breathing vagors or mists
first aid measures			S	Conditions for safe storage, inc		upment as required. Priva	broading expose of finals,
Eye contact	Immediately flush with plenty of water. After initial flu continue flushing for at least 15 minutes.	shing, remove any contact lenses and		Storage Conditions		s. Store in accordance with	local regulations
Skin Contact	Wash skin with soap and water.		-	Incompatible materials	None known based on info		
INHALATION	Move to fresh air in case of accidental inhalation of medical attention immediately if symptoms occur.).	vapors or decomposition products. (Get	2		CTION 8: Exposure cor		ection
INGESTION	If swallowed, do not induce vomiting: seek medical a container or label.	advice immediately and show this		Control parameters			
Most important symptoms	and effects, both acute and delayed			Exposure Guidelines	This product, as supplied, exposure limits establisher	does not contain any hazard by the region specific regu	ious materials with occupational latory bodies
Symptoms	No information available.		100	chemical name PETROLEUM HYDROCARBON	ACGIH TLV Sregim ³	OSHA PEL	NIOSHIDLH
Indication of any Immediat	e medical attention and special treatment needed		S	(MINERAL OIL)			
					chemical name		ACGIH TLV
	SECTION 5: FIRE FIGHTING MEASURE	S		PETROLEU	IM HYDROCARBON (MINERAL OF	L)	5mg/m ³
Suitable Extinguishing Mer	ile			Appropriate engineering control	is .		
CO2, dry chemical, dry sand		1000 mar 100		Engineering Controls	 Ensure adequate ventilatio 	n. especially in confined are	105
Unsuitable Extinguishin Specific hazards arising fro	ng Media Caution: Use of water spray when fighting fire may b	e inemciont.		Individual protection measures.			
The product causes burns of	m the chemical eyes, skin and mucous membranes. Thermal decomposition c nt of fire and/or explosion do not breathe fumes.	an lead to release of irritating and toxic		8			
	Safety data sheet number: 32400136 Page 2 / 7				Safety data sheet n Page	umber: 32400136 3 / 7	

		Revision date 20-Nov-20	15	3240111600 - ULVOIL R-7				Revision date 20-Nov-
Eye/face protection	Wear safety glasses with side a	hields (or goggles).	-		SECTION 1	1: Toxicological i	nformation	
Skin and body protection	Suitable protective clothing.			Information on likely rou	tes of exposure			
Respiratory protection	No protective equipment is nee exceeded or irritation is experie inadequate ventilation wear res	ded under normal use conditions. If exposure limits are nced, ventilation and evacuation may be required. In case protocol protection	of	Product Information	No data avail			
General Hygiene Considerations		f industrial hygiene and safety practice.		INHALATION	No data availa			
	ECTION 9: Physical and o			Eye contact				
the second secon		inemical properties	-	Skin Contact INGESTION	No data availa No data availa			
Information on basic physical an Color	light yellow							
Appearance Physical state Odor Odor Threshold	clear liquid Slight No information available			chemical name PETROLEUM HYDROCARB (MINERAL OIL)	Acute toxicity (LD DN > 5000 mg/kg	(Rat) >:	ity (LD50) -Dermali- 1000 mg/kg	Inhalation LC50 > 5mg/l
Property	Values	Remarks_		Information on toxicolog	ical effects			
pH Melting point/freezing	No data available			Symptoms	No information	n available.		
point melting point				Delayed and immediate e	ffects as well as chronic	effects from short and	long-term exposure_	
Pour point freezing point Initial boiling point flash point Flammability Limits in Air Upper flammability limits	-17.5 °C No information available 310 °C Or more 256 °C / 493 °F No data available	Cleveland Open Cup	_	Sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT - single exposure	No information No information No information No information No information	n əvəilable. n əvailable. n əvəilable. n əvəilable. n əvəilable.		
Lower flammability limit Density @15°C Solubility[les] Water solubility Kinematic viscosity 40°C Kinematic viscosity 100°C	No data available 0.8759 g/cm3 Insoluble in water 66.87 mm2/s 8.757 mm2/s	(i) <u>1</u> 27 (127		STOT - repeated exposur Aspiration hazard Numerical measures of to The following values are	Not classified. exicity - Product Information	tion_	umont .	
Dropping point Vapor Pressure Vapor density	No information available No information available No information available		一世		SECTION	12: Ecological inf	ormation	
	SECTION 10: Stability	and reactivity	IAI	Ecotoxicity				
			-	chemical name	Algat/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Reactivity			10	PETROLEUM HYDROCARBON (MINERAL OIL)	LOEL(algae)>=100mg/I(WA F)	10000mg/L LC50 :96h Lepornis macrochirus		EL50 > 100mg1(WAF)
Reactivity_ No data available Chemical stability			3					
No data evailable	19		3	Persistence and degrada No information available.	bility			
No data available <u>Chemical stability</u> Stable under normal conditions. Possibility of Hazardous Reaction	-		2	No information available. Bloaccumulation No information available.	bility			
No data available <u>Chemical stability</u> Stable under normal conditions. <u>Possibility of Hazardous Reaction</u> None under normal processing. Conditions to avoid	is and sparks.		3	No information available. <u>Bioaccumulation</u> No information available. <u>Mobility</u> No information available.				
No data available Chemical stability Stable under normal conditions. Possibility of Hazardous Reaction None under normal processing. <u>Conditions to avoid</u> Strong oxidizing agents. Heat, flami incompatible materials	upplied.	and vapors.	3	No information available, Bioaccumulation No information available, Mobility No information available,	bility nemical name DROCARBON (MINERAL OIL	3	Partition coeff >6	ciont
No data available <u>Chemical stability</u> Stable under normal conditions. <u>Possibility of Hazardous Reaction</u> None under normal processing. <u>Conditions to avoid</u> Storig oxidaring agents. Heat, flami <u>Incompatible materials</u> None known based on information st <u>Hazardous Decomposition Produ</u>	upplied.	and vapors.		No information available, Bioaccumulation No information available, Mobility No information available,	hemical name			clent

3240111600 - ULVOIL R-7	Revision date 20-	łov-2015	3240111600 - ULVOIL R	.7			Revision date 20-Nov-2
	SECTION 13: Disposal considerations		EPA Pesticide Regist International Inventor	ration Number Not Applic	able		
	SECTION 13: Disposal considerations		ENCS	Complies Complies			
Waste treatment methods Disposal of wastes	Improper disposal or reuse of this container may be dangerous and illegal.		EINECS/ELINCS DSL	Complies			
Contaminated packaging	Do not reuse container.		AICS	Complies			
Contaminated packaging	Do not reuse container.		PICCS China (IECSC)	Complies Complies			
			NZIoC Taiwan	Complies			
	SECTION 14: Transport information			SEC	TION 16: Other i	nformation	
DOT	Not regulated		NFPA	Health hazards 0	Flammability 1	Instability 0	Physical and Chemical
TDG	Not regulated		HMIS	Health hazards 0	Flammability 1	Physical hazards 0	Properties - Personal protection X
ATA	Not regulated		Issue Date	01-Dec-20	04		
IMDG	Not regulated		Revision date Revision Note	20-Nov-20	15		
ADR	Not regulated		No information availabl Disclaimer				
IBC_			at the date of its publi	cation. The information of	liven is designed only	ct to the best of our knowle as a guidance for safe has dered a warranty or guality	idling, use, processing,
Transport in bulk according to	Not regulated		storage, transportatio	ly to the specific materia	I designated and may	not be valid for such mate	rial used in combination
Annex II of MARPOL 73/78 and			information relates or				
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the IBC Code	Not regulated Not regulated		information relates or with any other materia	als or in any process, uni	ess specified in the te End of Safety Data		
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the IBC Code Proper shipping name	Not regulated Not regulated		information relates or with any other materia	als or in any process, uni			
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the IBC Code Proper shipping name CATEGORY US Federal Regulations. SARA 313 Section 313 of Tile III of the Superfi- chemicals which are subject to the SARA 31137 Hazard Categories. Acute health Nazard Chronic Health Nazard	Not regulated SECTION 15: Regulatory Information and Amendments and Resultorization Act of 1988 (SARA). This product does not cont sporting regulatorization Act of 1988 (SARA). This product does not cont sporting regulatorization Act of 1988 (SARA). This product does not cont No	an any	information relates or with any other materi	als or in any process, uni			
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The BIC Code Program Selfying name CATEORY US Enderson Resources Selfanza S	No regulated We regulated BECTION 15: Regulatory information and Amendments and Resultorization Act of 1998 (SARA). The product does not con producting regularizeness of the Act and Title 40 of the Code of Federal Regulations, Part 3 No Regulation and Act and Title 40 of the Code of Federal Regulations, Part 3 No Regulation and Society of the Society of the Society of the Society of Technic Amendments and Society of the Society	TR STAND	information relates of with any other materia	als or in any process, unit	End of Safety Data	Sheet	

1. Chemical Product and Company Ungriticities ion Fire Fighting Instructions: Make the worker leave right away, cut off the of ignition ns soon as possible. Firemen shou proper protective equipment. Product Name: RP-133 Rare Earth Poly NAMA GRC (Red) Firemen shou proper protective equipment. Manufacturer's Address/Code: Product Name: Keep the air circulate, cut off the source of leakage i as possible and avoid it leaking into severs, and other i Fax No. r 0086-769-85316502 2. Composition on ingredients Protection to Alders: Van Protective equipment.						19 C
 5. Fire Fighting Mesures Specific Buzzdes This product is nonflormable. 6. Contained Product and Company Mentification Product and Company Mentification Product and Company Mentification Product American Product and Company Mentification Manufacturer's Meeting Medice Response Manufacturer's Meeting Medice Response Manufacturer's Medice Response Mentification Street, Central, Hende Street, Central, Hende Manufacturer's Meeting Medice Response Manufacturer's Meeting Medice Response Meeting Medice Meeting Medice Response Meeting Meeting Medice Response Meeting Meeting Meeting Meeting Meeting Medical Meeting Meeting Meeting Meeting Medical Meeting Meeting Meeting Medical Meeting /li>						
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 Specific lizards: This product is notifimmable. Chemical Product and Company Margification: When Graph Listed Chemical Product and Company Margification: When Graph Listed Chemical New Kin Neg Graph Listed Manufacturer's New, Xin Neg Graph Listed Street, Central, Neg Kong Chemical New Kin Neg Graph Listed Street, Central, Neg Kong Chemical New Kin Neg Graph Listed Chemical New Kin Neg Graph Listed Street, Central, Neg Kong Chemical New Kin Neg Graph Listed Chemical New Kin Proper protective equipment. Chemical New Kin Neg Graph Listed Chemical New Kin Neg /li>						5. Fire Fighting Measures
 L. Chearlen Product mane (Product mane (Product Mane (Product Name) /li>	1	1.				
 L. Checkich Nerve Mark Mark (1994) L. Checkich Nerve Mark Mark (1994) Product Near Birling (1994) Product Ne		MATE	RIAL SAFI	ETY DATA SHI	ET /	Extinguishing Media: Remove the container to the fresh air. If it can'
 L. Checkich Nerve Mark Mark (1994) L. Checkich Nerve Mark Mark (1994) Product Near Birling (1994) Product Ne					Chen. Gans	removed, cooling it with water until the fire falls
 product Namifacturer's Name: Earth Polls and proper protective equipment. Manufacturer's Name: Xin Neng Code 1 977-Xin Migger Mouse, 11 Daddell Street, Central, Beng Kong Telephon, 00852-9510 973 Fax No. + 0085-769-8516802 2. Composition/Information on Ingredients Subtance or Xiture? <u>Mixture</u> No. <u>Chesical Name</u> Content Code 1 977-860-870-800 2. Composition/Information on Ingredients Subtance or Xiture? <u>Mixture</u> No. <u>Chesical Name</u> Content Code 1 978-970-970-970-970-970-970-970-970-970-970	I. Che	mical Product and Com	pany Ldentifi	cation -		Fire Fighting Instructions: Make the worker leave right away, cut off the s
 Memofacturer's Neems Xin Neng Group Limited Manufacturer's Madress/Code - 9/P.Buttergive Guisse, 11 Dundel1 Manufacturer's Madress/Code - 9/P.Buttergive Guisse, 11 Dundel1 Street, Central, Hong Kong Telephon, 00852-280 9737 Fax No. : Obsel-769-e8516802 Composition/Information on ingredients <u>Corion Oxide 62</u> 1306-38-3 <u>Corion Oxide 62</u> 1306-38-3 <u>Corion Oxide 62</u> 1306-38-3 <u>Corion Oxide 62</u> 1307-9 <u>MAQ</u> <u>Necosymin Oxide 11</u> 1313-97-9 <u>MAQ</u> <u>Manueuus Robination of Ingestion Nethology Fore-stillering responsibility trained and strictly able by the file</u> <u>Southance or Winter</u>, Mature	Product	t Name: RP-133 Rare E	arth Pollshin	Prate (Red)	D	of ignition as soon as possible. Firemen should
Manufacturer's Address/Code : 9/7_Buttogies_Houso, 11 Duddel1 Street, Central, Hong Kong Telephon: 00852-2810 977 Fix No. : 0086-76-85316502 2. Composition/Information on ingredients Subtance or Niture? 1 Cerium Oxide 2 Lanhama Oxide 2 Lanhama Oxide 3 Prascodpnim Oxide 4 1006-98-3 2 Lanhama Oxide 3 Prascodpnim Oxide 4 10307-29-5 6 Others 5 - 0 Others 5 - 3 Inzued Samerizing Bergenery Overview: No data in classification by the GBS. Invade Way: Skin or Eye Context, Inshalation, Ingestion Barr or Blast Risk. Not avaiable. 4. First Ald Measures Sye Ortact: Remove any contact lenses at once. Lifting the upper and lower centar-fillering respiratory. Fortaction, should wear contact-fillering respiratory of partection: Sep Contact: Remove any contact lenses at once. Lifting the upper and lower centarist of the substance should wear data high concentration, should wear contact-fillering respiratory. Fortaction, should wear contact+fillering respiratory of variant distry glasses.					5 C C C C C C C C C C C C C C C C C C C	proper protective equipment.
Street, Central, Hong Kong Telephon: 0058-2810 9737 Tax Na: 0056-769-85316502 2. Composition/Information on ingredients Subtrance or Mixture? No. Content (N) A 1030-93-3 Content (N) Content (N) Base (N) Content (N) Content (N) Content (N) Content (N) Content (N) Content (N) Content (N) Content (N) Conten					House, 11 Duddell	6. Accidental Release Measures
Fix No. : 0080-769-85316502 2. Composition/Information on ingredients Subtrance or Wixture? Wixture? No. Chemical Name No. Chemical Name 1 Cerium Oxide 62 1 Cerium Oxide 62 2 Lanthamm Oxide 1312-81-8 3 Praseodynium Oxide 1 4 Neodynium Oxide 1 5						Release Measures: Keep the air circulate, cut off the source of leakage as
2. Composition/Information on Ingredients Substance or Mixture: No. Chemical Name No. Chemical Name Octaria Oxide 62 1 Cerium Oxide 2 Lanthanum Oxide 3 Prescophymin Oxide 4 Noodymin Oxide 5 Others 6 Others 7 Prescophymin Oxide 8 1312-91-9 8 1313-97-9 9 Noodymin Oxide 1 Carlow Summarizing Chemical Environmental Effects: Not axiable. 1 Carlow Summarizing Brance Overview: No data in classification by the GRS. Invade Way: Skin or Flyc Contact, Inshalation, Ingestion Portential: Environmental Effects: Not axiable. 4. First Aid Measures 4. First Aid Measures Skin Contact: Insees at once. Lifting the upper and lower eye Protection: Washing environmental effects: Not axiable. 4. First Aid Measures Contact: Remove any contact lenses at once. Lifting the upper and lower eye Protection: Wast roo songe water. If firritution persists, consult a physician.	Te	lephon: 00852-2810 97	37		· ·	as possible and avoid it leaking into sewers, and other lo
Substance or Mixture? Mixture? Mixture? Mixture No. Chemical Name Content (%) CAS No. Chemical Formula 1 Corium Oxide 62 1306-38-3 Cool 2 Lanthamam Oxide 28 1312-81-8 LaO. In a hag and hold for waste disposal. 3 Prescodynium Oxide 4 12037-29-5 Pr.O. In a hag and hold for waste disposal. 3. Izards Summerizing Imanual Mixture Image disposal Image disposal 3. Izards Summerizing Image disposal Image disposal Image disposal 3. Izards Summerizing Image disposal Image disposal Image disposal 3. Izards Summerizing Image disposal Image disposal Image disposal 3. Izards Summerizing Image disposal Image	Fa	x No. : 0086-769-8531	6502			restricted space. Avoid raising dust.
Salastance or Mirture? Witter No. Chemical Name Contant (%) CAS No. Chemical Porula 1 Cortum Oxide 62 1306-38-3 Cool 3 Pressedynius Oxide 4 12037-29-5 Pr.O. 2 4 Noodynius Oxide 4 12037-29-5 Pr.O. 2 3 Pressedynius Oxide 1 1313-81-8 LaAA Protection 3 Pressedynius Oxide 1 1313-97-9 Nood Nood Pressedynius Oxide 1 1313-97-9 Nood Nood Nood Pressedynius Oxide 1 1313-97-9 Nood Nood <td< td=""><td>2. Com</td><td>position/Information</td><td>on ingredient</td><td>ts</td><td></td><td>Protection to Aiders: Wear proper protective equipment. Avoid contacting with</td></td<>	2. Com	position/Information	on ingredient	ts		Protection to Aiders: Wear proper protective equipment. Avoid contacting with
Inc. Construction Construction Construction Spill/Leaks Response; Ensure that the uir circulate.Place the leaking participation 2 Lanthanum Oxide 28 1312-91-8 LaAG. In a bag and hold for waste disposal. 3 Prasecdymium Oxide 4 12037-29-5 Profin In a bag and hold for waste disposal. 3 Drasecdymium Oxide 1 1313-97-9 Nud. In a bag and hold for waste disposal. 3 Inzacards Summarizing Instrument oxide strictly abide by the GRS. Instrument oxide strictly abide by the GRS. Invade Way: Skin or Fige Contact. Inhalation or Ingostion Inritiation or Ingostion Storage areas should be exert oxide in a well-wentilated location. Storage areas should be exert oxide in a well-wentilated location. Storage areas should be exert oxide in a well-wentilated location. Storage areas should be exert oxide in a well-wentilated location. Storage areas should be exert oxide in a well-wentilated location. Storage areas should be exert oxide in a well-wentilated location. Storage areas should be exert oxide in a well-wentilated location. Storage areas should be exert oxide in a well-wentilated location. Storage areas should be exert oxide in a well-wentilated location. Storage areas should be exert oxide in a well-wentilated location. Storage areas should be exert oxide in a well-wentilated location. Storage areas should be exert oxide in a well-wentilated location. Storage areas should be exert oxide in a well-wentilated and strictres oxide in a well-wentilated location. Stora						Environmental Precautions: Contaminated water without porper treatment shou
2 Lanthanum Oxide 28 1312-81-8 LaQA In a bag and hold for waste disposal. 3 Prassedynum Oxide 4 12037-29-5 Pr,OL In a bag and hold for waste disposal. 3 Prassedynum Oxide 4 12037-29-5 Pr,OL In a bag and hold for waste disposal. 3 Prassedynum Oxide 1 1312-97-9 NQA In a bag and hold for waste disposal. 3 Brazersbory Overview. No data in classification by the GBS. Interpretory Overview. No data in classification or Ingestion. Irritating to eyes. Interpretory Overview. No data in classification or Ingestion. Irritating to eyes. Potential: Environmental Effects: Not avaiable. Interpretory Overview. No data in classified over an or Blast Risk. Not avaiable. Exposure Controls / Personal Protection Burn or Blast Risk. Not avaiable. First Aid Messures Seek for Medical Attention. Exposure Are are proximal to the workstation lower contact with the substance should wear contacts with the substance should wear contacts filtering respiratory: Protection. Waster or songw arit respiratory and periodic attention. Skin Contact: Renove contage attempt of the or do OP. Refer for modical attention. Seek for Medical attention. Seek or onge attempt of the orde attempt or do OP. Refer for modical attention. Inhalation. Renove the victin to fresh air. Ibroretion. Seek or modical att	No.	Chemical Name	Content(%)	CAS No.	Chemical Formula	
2 Linkinka Kilde 200 12037-29-5 Production for the standing of the	1	Cerium Oxide	62	1306-38-3	CeO ₂	Spill/Leaks Response: Ensure that the air circulate. Place the leaking pro-
3 Praseodymium Oxide 4 12037-29-5 Pr0. 4 Neodymium Oxide 1 1313-97-9 N40. 5 Others 5 - - 3. Inzards Semarizing Emergency Overview: No data in classification by the GBS. Invade Way: Skin or Eye Contact. Inhalation. Ingestion Invade Way: Skin or Eye Contact. Inhalation or Ingestion. Irritating to eyes. and muccous mebrano. Potential: Environmental Effects: Natavaiable. Burn or Blast Risk: Not avaiable. 8. Exposure Controls / Personal Protection Burn or Blast Risk: Not avaiable. Skin Contact: Remove any contact lenses at once. Lifting the upper and lower eyelds. flushing them with running water for at least 15 minutes. Saek for Medical Attention. Skin Contact: Remove contawinated (others and shees, Rinsing skin with plenty of water or songwater, florinitution persists, consult a physician. Personal structure or execution. States are or songwater respiratory execution. Song are respiratory execution. Song are respiratory execution. Skin Contact: Remove contavinated (others and shees, Rinsing skin with plenty of water or songwater. If irritution persists, consult a physician. Personal Protection. Wait water or songwater respiratory execution war long-aleved anti-infiltration uniform. Inhalation. Remove the victim to fresh air. ID browthing is diffilult, irregular, or has stopped, open his collar and belt or do OP. Refer for modical attention. Other Information. Acoid enting dower stru	2	Lanthanum Oxide	28	1312-81-8		in a bag and hold for waste disposal.
1 1	3	Praseodymium Oxide	4	12037-29-5		
 Juzards Samerizing contacting with skin or eye. Practice good personal hygiene after using material especially before eating, drinking, snoking or using the tollet storage: St	4	Neodymium Oxide	1	1313-97-9	Nd ₂ O ₃	
 A. Introde some link /ul>	5	Others	5			
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 Intrate Way Sam Optimized Controls (Intraction and success) Intraction and success membrance. Potential Health Effects: Net available. Potential Environmental Effects: Net available. Furr or Blast Risk: Not available. Furr or State or song vater. I firritation persists, consult a physician. Or has stopped, open his a trapy: loosen his collar and helt or do Open. Risking such thoroughly with water. Do not induce vomiting. Seek medical attention. Protection: Furr or song Property protections. Avail detter in State Riskin attention. Protection: Furr or song vater. I firritation persists, consult a physician. Or has stopped, open his a trapy: loosen his collar and helt or do open mis a trapy: loosen his collar and helt or do medical attention. Protection First Alders: wear proper protective equipment to avoid contating 	Emergen	ncy Overview: No data	a in classifi	cation by the GHS	6 C	
Notestial numbers of the section indirection of the section indirection indirection indirection indirection indirection indirection indirection indirection. 8. Exposure Controls / Personal Protection Burn or Blast Risk: Not available. 8. Exposure Controls / Personal Protection Burn or Blast Risk: Not available. 8. Exposure Controls / Personal Protection Burn or Blast Risk: Not available. Exposure Controls / Personal Protection Burn or Blast Risk: Not available. Exposure Controls / Personal Protection Eye Context: Remove any contact lenses at once. Lifting the upper and lower Personal Protection. Contact with the substance should wear contacts—filtering respirators; emprover or oxygen air respirators; emprover or oxygen air respirators or oxygen air respirators or oxygen air respirators or oxygen air respirators or oxygen air respirators. Inhalation: Remove containated clothes and shoes, Rinsing skin with plenty of water or songen vater. If irritation persists, consult a physician. By Protection: wear long-sleeved anti-infiltration uniform. Inhalation: Remove containated into. Refer for modical attention. Burn or do OCPR. Refer for modical attention. Ingestion: Rising moth thoroughly with water. Do not induce vomiting. Seek Berearance and Physical State: Brown Powder Protection for staten score protective equipment to avoid contaiting Appearance and Physical State: Brown Powder	Invade	Way: Skin or Eye Com	ntact, Inhala	tion, Ingestion		
A protection is five to reach and backs and b	Potent	ial Health Effects: Ha	rmful if Inhal	lation or Ingestic	n.Irritating to eyes	
Outer Lift for Function Engineering Measures; Avoid raising or Inhalating dust. Ensure that eye manh and safety abover are proximal to the workstation low personal Protection: Eye Contact; Remove may contact lenses at once. Lifting the upper and lower eye lids, flushing them with running water for at loast 15 minutes. Seek for Modical Attention. Engineering Measures; Avoid raising or Inhalating dust. Ensure that eye mash and safety abover are proximal to the workstation low personal Protection: Skin Contact; Remove contaminated clothes and shees, Rinsing skin with plenty of water or songe yater. If irritation persists, consult a physician. Inhalation: Remove the victim to fresh air. If breathing is diffifult, irregular, or has stopped, open his airsy: loosen his collar and helt or do OPR. Refer for modical attention. Eve for modical attention. Ingestion, Rinsing moth thoroughly with water. Do not induce vomiting. Seek Seek medical attention. Prosical attention. Other Information. Avoid enting, drinking or aconking at workstation and before the prostes. Protection first Alders: waar proper protective equipment to avoid containing Appearance and Physical Stater. Brown Powder		' and muce	ous membrano.			
Data of Data First Alders war proper protection. Risking work throughly with water. Do not induce vomiting. and safety shower are proximal to the workstation loc Byte Contact: Remove nawy contact lenses at once. Lifting the upper and lower Personal Protection: Contact with the substance should wear dust. Skin Contact: Remove contaminated clothes and shoes, Rinsing skin with plenty Personal Protection: Contact with the substance should wear contact=filtering respirators; emer respirators or oxygen air respirators orespirators orespirators orespirators or oxygen air respi	Potent	ial: Environmental Ef	fects: Not av	aiable.		
 4. First Ald Reasures 4. First Ald Reasures 5. Protection to First Alders: wear proper protective equipment to avoid contating 4. First Ald Reasures 5. Protection to First Alders: wear proper protective equipment to avoid contating 5. Protection to First Alders: wear proper protective equipment to avoid contating 5. Protection to First Alders: wear proper protective equipment to avoid contating 5. Protection to First Alders: wear proper protective equipment to avoid contating 5. Protection to First Alders: wear proper protective equipment to avoid contating 5. Protection to First Alders: wear proper protective equipment to avoid contating 5. Protection to First Alders: wear proper protective equipment to avoid contating 	Burn of	r Blast Risk: Not ava	iable.			
eyp Contact remove any Contact remove a						
Seek for Modical Attention. high concerntrations, should wear contacts-filtering respirators; em Skin Contact; Remove contaminated clothes and shoes, Rinsing skin with plenty rescue or evacuation, should wear contacts-filtering respirators; em Skin Contact; Remove contaminated clothes and shoes, Rinsing skin with plenty rescue or evacuation, should wear contacts-filtering respirators; em Inhalation, Remove the vicin to fresh air: Ibroathing is difficult, irresplar, Body Protection: wear protective chemical affecty glasses. Inhalation, Remove the vicin to fresh air: Ibroathing is difficult, irresplar, Body Protection: wear router of wear contacts-filtering respirators; em or has stopped, open his airway: loosen his collar and helt or do Body Protection: Wear router glores. CPR, Refer for modical attention. Other information. Avoid eatin, drinking or somking at workstation Ingestion: Rinsing mouth thoroughly with water. Do not induce vomiting. Seek modecial attention. 9. Physical and Chemical Properties Protection to First Aiders; wear proper protective equipment to avoid contaiting Appearance and Physical State; Brown Powder	Eye Co					
Skin Contact: Remove contaminated clothes and shees, Rinsing skin with plenty rescue or evacuation, should wear respirators or oxygen air respirators orespiratores or oxygen air respirators or oxygen air respirators o				running water for	at least 15 minutes.	
of water or songy water. If irritation persists, consult a physician. Eye Protection: Wear protective chemical safety glasses. Inhalation: Remove the victim to fresh air. If breathing is difficult, irregular, or has stopped, open his airway: loosen his collar and belt or do Body Protection: Wear protective explored and in-infiltration uniform. OCML Refer for modical attention. Residue attention. Body Protection: Wear protective explored and in-infiltration uniform. Ingestion; Rinsing moth thoroughly with water. Do not induce vomiting. Seek Other Information: Avoid exting, drinking or somking at workstation abover after work. Conduct pre-employment and periodic medical extention. Protection to First Alders; wear proper protective equipment to avoid contaiting Appearance and Physical Stater. Brown Powder					in the second	
Inhalation Rever the victim to freash ir. Inhalation Body Protection: wear long-sleeved anti-infiltration uniform. Inhalation Renove the victim to freash ir. Infiltration Infiltration or has stopped, open his airway: loosen his collar and belt or do CPR. Refer for modical attention. Body Protection: wear long-sleeved anti-infiltration uniform. Ingestion: Rinsing mouth thoroughly with water. Do not induce vomiting. Seek Other Information. Other Information and periodic medical examine Protection to First Alders: wear proper protective equipment to avoid contaiting Seek Physical State: Brown Powder	Skin Co					
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or has stopped, open his array. Josen his Colla and mit & open CPR, Refer for modical attention. Ingestion: Rising mouth thoroughly with water. Do not induce vomiting. Seek shower after work. Conduct pre-employment and periodic medical examine Protection to First Alders: wear proper protective equipment to avoid contaiting Appearance and Physical State: Brown Powder	Inhala					
Ingestion: Rinsing mouth thorughly with water. Do not induce vomiting. Seek shower after work. Conduct pre-employment and periodic medical examine medical attention. 9. Physical and Chemical Properties Appearance and Physical State: Brown Powder					ollar and belt or do	
meeting and the second					due worting Soul	
Protection to First Alders: wear proper protective equipment to avoid containing Appearance and Physical State: Brown Powder	Ingest			water. Do not 1	duce vom ting, beek	
Forection to first Rivers: wear proper protection equipment to area and a					at to avoid contating	
99.100 · · · · · · · · · · · · · · · · · ·	Protec.	tion to First Aiders:			it to avoid contacting	
			第1页	ę.		- 第2页

PH: No date.	Dangerous Goods Code: No data in classification.
Boiling Point, No data.	Packing Methods: Using polyethylene packaging material sealed, then placed it
	racking methods: Using polycenyiene packaging material sealed, then placed it in boxes or plastic barrels.
Melting Point: No data.	
Water Density (water=1) : No data.	U.N.No.: No data in classification.
Vapor Density (air=1) : No data.	Transport Notice: Confirm the damaged containers, corrosion, leakage and so on
Vapor Pressure: No data.	before transportation. Avoid overturning , overloading as loading.
Flash Point: No data.	15. Regulatory Information
Flammability: Nonflammable.	Regulation Information: Follow all regulations in your country.
Solbility in Water: Insoluble.	16. Other Information
Specific Gravity: 6-7mg/cm ³	Because our survey information and documentation is limited, this information
General Use: Grinding and Abrasivos.	may not be comprehensive. The substances may also exist some unknown dangers,
Other Specific Properties: No data.	the data above are not guaranteed, so please use it with caution.
10. Stability and Reactivity	Reference:
Stability: Stable under normal and anticipated storage and handling conditions.	GHS(The Globally Harmonized System of Classification & Labelling of
Contions to Avoid: Not avaiable.	Chemicals)
Incompatibilities with Other Materials: This is an oxidizing substance.	 CAS (Chemical Absract Service Register) No.
Hazardous Decomposition Products: Not available.	 CSDS(General Rules for Preparation of Chemical Safety Data Sheet)
Hazardous Polymerization: Not avaiable.	Date: 2012-2-18
11. Toxicological Information	Department: The Production and Technology Department
Acute Toxicity:	Check Department: The Production and Technology Department
Oral LD _{Mc} (rat) >500mg/kg(RTECS) (Cerium Oxide)	
Abbominal cavity LD ₁₀ (mouse) >465mg/kg (RETCS) (Cerium Oxide)	
Sensitization: Not avaiable.	· · · · · · · · · · · · · · · · · · ·
Allergenicity: Not avaiable.	
Mutagenicity: Not avaiable.	
Teratogenicity: Not avaiable.	v = x
Carcinogen: Not avaiable.	
12. Ecological Information	
Ecotoxicity: Not avaiable.	
Persistence and Degradability; Not avaiable.	
Bioaccumilative Potential: Not avaiable.	1.00
Envioment Change: Not avaiable.	
Other Adverse Effects: Not avaiable.	
13. Disposal	
Waste disposal: Place the leaking products in a bag and hold for waste disposal	
Avoid raising dust.	×
Disposal Notice: Contaminated water without porper treatment should not be	
discharged.	
14. Transport Information	
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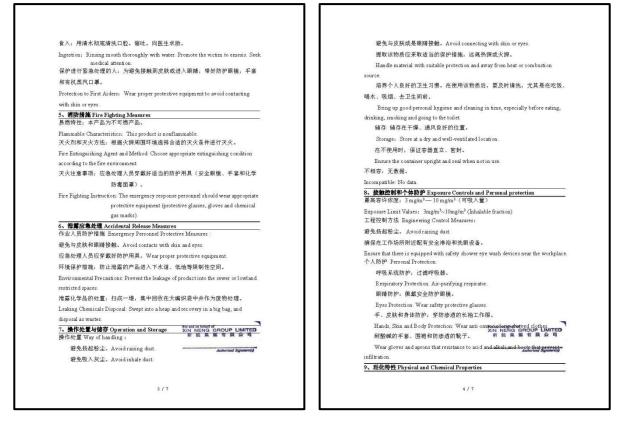
wised :

					The contract of the second	
					 Fire Fighting Measures Specific Hazards: This product is nonflammable. 	
	TS MAT				Extinguishing Media: Remove the container to the fresh air.	If it can' t
	MAT	TRIAL SAFE	TY DATA SHE	EET	, removed, cooling it with water until the	
		ERITE OTTAL				
	mical Product and Co	Martine American	day then	Chen	g and of ignition as soon as possible. F	
	t Name: RP-121 Rare				proper protective equipment.	LI CIRCH INTO UN
	nufacturer's Name:				6. Accidental Release Measures	
9021 M	inufacturer's Add	kin ken <u>k droup</u>	9/F Rut ton the	WidHouse, 11 Du		of leakage as a
302	inulacturer s Add		Central, Hong Kon		as possible and avoid it leaking into sewers	
1.1	lephon: 00852-2810 9		contract many months many	a	restricted space. Avoid raising dust.	
	x No. : 0086-769-853				Protection to Aiders: Wear proper protective equipment. Avoid co	ntacting with s
	position/information		s		. Environmental Precautions: Contaminated water without porper tr	
	nce or Wixture? M				he discharged.	
No.	Chemical Name	Content(%)	CAS No.	Chemical For		e leaking prod
1	Cerium Oxide	66	1306-38-3	Ce0,	in a bag and hold for waste disposal.	
2	Lanthanum Oxide	28	1312-81-8	La ₂ 0 ₁	7. Handling and Storage	
		1	1313-97-9	Nd ₂ O ₂	Handling: The operator must be specially trained and strictly a	bide by the ru
2	Noodemium Oxido					
3	Neodymium Oxide		-	-		
4	Others	5			Handle material with suitable protection and avoid raising du	ıst ,Inhalatin
4 I. Haz	Others ards Summarizing	5	-	-	Handle material with suitable protection and avoid raising du contacting with skin or eye. Practice good personal hygiene	ust ,Inhalating after using t
4 . Haz	Others ards Summarizing ncy Overview: No da	5 ata in classific	- cation by the GHS	-	Handle material with suitable protection and avoid raising du contacting with skin or eye. Practice good personal hygiene	ust ,Inhalating after using t the toilet.
4 . Haz morgen nvado	Others ands Summarizing ncy Overview: No da Way: Skin or Eye C	5 ota in classific Contact, Inhala	- cation by the GHS tion. Ingestion	- S.	Handle material with suitable protection and avoid raising d contacting with skin or eye. Practice good personal hygiona material especially before cating, drinking, smoking or using Storage: Store in a well-ventialated location. Storage areas	ust , Inhalatin after using the toilet. should be equi
4 . Haz imorgen nvado	Others ands Summarizing ncy Overview: No da Way: Skin or Eye C ial Health Effects: I	5 ota in classific Contact, Inhala	- cation by the GHS tion. Ingestion	- S.	Handle material with suitable protection and avoid raising d contacting with skin or eye. Practice good personal hygiona material especially before cating, drinking, smoking or using Storage: Store in a well-ventialated location. Storage areas	ust ,Inhalatin after using the toilet. should be equip
4 , Haz morgen nvado otent	Others ands Summarizing ncy Overview: No da Way: Skin or Eye C ial Health Effects: I	5 ontact, Inhala darmful if Inhal icous membrane.	- cation by the GHS tion, Ingestion ation or Ingestic	- S.	Handle material with suitable protection and avoid raising du contacting with skin or eye. Practice good personal hygione material especially before eating, drinking, smoking or using Storage: Store in a woll-ventialated location. Storage areas with emergency equipment and suitable leaking host	ust ,Inhalatin after using the toilet. should be equip
4 . Haz morger nvado otent	Others ands Summarizing ncy Overview: No da Way: Skin or Eye C ial Health Effects: I and mu	5 contact, Inhala darmful if Inhal icous membrane. iffects: Not ava	- cation by the GHS tion, Ingestion ation or Ingestic	- S.	Handle material with suitable protection and avoid raising du contacting with skin or eye. Practice good personal bygiene material especially before eating, drinking, smoking or using Storage: Storage: Stora in a well-ventialated location. Storage areas with emergency equipment and suitable leaking host 8. Exposure Controls / Personal Protection Exposure Limit Values: 3ag/m ² long/m ² (Inhalating dust.Ensure t	ist , Inhalatim after using the toilet. should be equip material. hat eye wash stu
4 morger nvado otent otent	Others ards Summarizing ncy Overview: No da Way: Skin or Eye C ial Health Effocts: I and mu ial: Environmental E	5 contact, Inhala darmful if Inhal icous membrane. iffects: Not ava	- cation by the GHS tion, Ingestion ation or Ingestic	- S.	Handle material with suitable protection and avoid raising d contacting with skin or eye. Practice good personal hypione material especially before cating, drinking, smoking or using Storage: Store in a well-ventialated location. Storage areas with emergency equipment and suitable leaking host 8. Exposure Controls / Personal Protection Exposure Linit Values: Jang/m ² long/m ² (Inhalable fraction)	ist , Inhalatim after using the toilet. should be equip material. hat eye wash stu
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Boiling Point: No data.			Packing Methods: Using polyethylene packaging mate	rial scaled, then placed it
Melting Point: No data.			in boxes or plastic barrels.	
Water Density (water=1) : No data.			U.N.No.: No data in classification.	and the second second
Yapor Density (air=1) : No data.			Transport Notice: Confirm the damaged containers,	
Vapor Pressure: No data.			before transportation. Avoid overturning , overload	ing as loading.
Flash Point: No data.	2		15. Regulatory Information	
Flammability: Nonflammable.			Regulation Information: Follow all regulations in	your country.
Solbility in Water: Insoluble.			16. Other Information	
Specific Gravity: 6-7mg/cm ²			Because our survey information and documentation	
General Use: Grinding and Abrasives.			may not be comprehensive. The substances may also	exist some unknown dangers,
Other Specific Properties: No data.			the data above are not guaranteed, so please use	it with caution.
10. Stability and Reactivity	222		Reference:	
Stability: Stable under normal and anticipated storage and handling conditi	ons.		GHS(The Globally Harmonized System of Class	slfication & Labelling of
Contions to Avoid: Not avaiable.			Chemicals)	
Incompatibilities with Other Materials: This is an oxidizing substance.			 CAS(Chemical Absract Service Register) No. 	
Hazardous Decomposition Products: Not avaiable.			CSDS(General Rules for Preparation of Chemica	il Safety Data Sheet)
Hazardous Polymerization: Not avaiable.			Date: 2012-3-13	
11. Toxicological Information			Department: The Production and Technology Departm	ent
Acute Toxicity:			Check Department: The Production and Technology D	epartment
Oral 1.D _{so} (rat)>500mg/kg(RTECS) (Cerium Oxide)	TEC			
Abbominal cavity 1D _{so} (mouse)>465mg/kg(RETCS)(Cerium Oxide)	14			
Sensitization: Not avaiable.				
Allergenicity: Not avaiable.	ands)			
Mutagenicity: Not avaiable.				
Teratogenicity: Not avaiable.	1.			
Carcinogen: Not avaiable.				19
12. Ecological Information				
Ecotoxicity: Not avaiable.				
Persistence and Degradability: Not avaiable.				
Bioaccumilative Potential: Not avaiable.				
Envioment Change: Not avaiable.				
Other Adverse Effects: Not avaiable.			2 C	
13. Disposal				
Waste disposal: Place the leaking products in a bag and hold for waste disp	oosal			
Avoid raising dust.				
Disposal Notice: Contaminated water without porper treatment should no	t be*			
discharged.				
14. Transport Information				
Dangerous Goods Code: No data in classification.				
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IN LIN

	书 MSDS		组成信息 Compo	sition/Informa	tion on ingredi	ents	
产品名称: 稀土抛光粉	Product Name Polishing Powder (S-204)		合物: 混合物				
1 martial and an and a second	编制日期/Compile Date: 2006.09.21	17444 007074 JULIO	or Mixture: Mixt				
	修订日期/Revision Date: 2016.01.01		: 铈、镧的氧化物				
1、化学品及企业标识 Chemical Pro	oduct and Company Identification		Name: Oxide and I	Fluoride of Ce	ium and Lantha	num.	
化学品的名称:稀土抛光粉 S系列		成分组成	Ingredients				
Product Name: Rare Earth Polishing Pov	vder (S-204)	洋鸟	化学名称	含量 (%)	CAS登记号	EINECS编号	化学式
一般用途:研磨剂。		NO		Content (%)	CAS NO.	EINECS NO.	Chemi c Formul
General Purpose: Abrasives.		1	氧化铈	50-90	1306-38-3	215-150-4	CeO2
制造/Manufacturing:		1	Cerium Oxide	30-90	1300-30-3	215-150-4	0001
公司名称: 东莞市思旺光电材料		2	氧化镧 Lanthanum	25-50	1312-81-8	215-200-5	LaoOn
	g Photoelectric Materials CO.,LTD	-	Oxide	22.50	1312-01-0	213 200 3	24203
地址: 东莞市长安镇莲峰路101		3	稀土氟化物	10-20	68188-85-2	269-166-1	未指定
Address: No.101 Lianfeng Roa	No. of the second state of the second se	2	Rear Earth Fluoride	10-20	00100-03-2	209-100-1	木 作及
100 m 100	: +86-(0)769-82387446						
应急电话 /Emergency Telephone :	A Sector Contraction of the Cont		施 First Aid Me				_
	: +86-(0)769-82387447	吸入:将	吸入者移至新鮮的	之气处。			
电子邮件地址 /E-mail Address	: sw@dgsiwang.com		如果吸入者叫	呼吸困难、不	婉则或是已经俏	《止呼吸,则立即	「解开吸
to set to beauty			入者的衣领、	裤带或是做	人工呼吸等,并	的医生求助。	
2、危险性概述 Hazards Summary 紧急情况概述: 吞食后会对人体有害		Inhalatio	n: Remove the vi			difficult, irregula d belt or do CPR.	
Emergency Situation Summary Harmf	al if ingestion.		medical attent	on.			-
潜在健康影响 Potential Health effect	ts :	皮肤接触	: 脱掉接触者身」	被污染的衣物	为和我的。NENC	Inf GROUP LIMIT 編有限公	ED
吞食后会对人体有害。 Harmful if ing	gestion.	用大量	青水冲洗皮肤 。 ¹	「以使用肥皂」	计彻底清除 。		
切勿吸入粉尘。Be sure not to inhale t	he dust.	如皮肤	防有不适感,请向	1医生求助。		Authorized Signatur	w(4)
		Skin Con	tact: Remove con				
刺激眼睛和粘膜。Irritating to eyes an	d mucous membrane.	05 mk (** 44	water or : 接触者如佩戴隆			ts, consult a physi 给 堪紀明盼	
刺激眼睛和粘膜。Irritating to eyes an 潜在环境影响:无数据。			: IX AS I SU PA AK		乙酮 1月1号 昭小公司	THE & THE REPORT OF	10 016+91
	For and on behalf of	100000000000000000000000000000000000000	至小 15 分钟 向				
潜在环境影响:无数据。 Potential Environment Effects: No Dat	For and on behalf of XIN NENG GROUP LIMITED	清水冲洗	至少 15 分钟。向				
潜在环境影响:无数据。 Potential Environment Effects: No Dat	Per and on behalf of XIN NENG GROUP LIMITED a. 新能集團有限公司	清水冲洗	act: Remove any c	ontactlenses a		he upper and low least 15 minutes	
潜在环境影响:无数据。 Potential Environment Effects: No Dat	Per and on behalf of XIN NENG GROUP LIMITED a. 新能集團有限公司	清水冲洗	act: Remove any c	ontact lenses a them with run			
潜在环境影响:无数据。 Potential Environment Effects: No Dat	Per and on behalf of XIN NENG GROUP LIMITED a. 新能集團有限公司	清水冲洗	act: Remove any c and flushing	ontact lenses a them with run			
潜在环境影响:无数据。 Potential Environment Effects: No Dat	Per and on behalf of XIN NENG GROUP LIMITED a. 新能集團有限公司	清水冲洗	act: Remove any c and flushing	ontact lenses a them with run ntion.			



外观:白色或淡粉色粉末	吸入(粉尘)(大鼠)LD50>5.05 mg/kg的(IUCLID(2000))(参考氧化铈)
Appearance: White or Light Pink Powder	Inhalation LD ₂₀ (m ouse)>5.05mg/kg(IUCLID (2000))(RETCS)(Cerium Oxide)
Appearance white of Light Pink Powder 气味: 无数据	
Smell : No Data	眼睛刺激性:眼睛刺激 (兔): 轻傲 (参考氧化铈)
Smell: No Data p日信: 无数据	Eye Irritation: Eye Stimulation (rabbit): Slight (Cerium Oxide)
	皮肤刺激:皮肤刺激 (兔):无 (参考氧化铈)
pH: No Data	Skin Irritation: Skin Stimulation (rabbit) : No (Cerium Ozide)
熔点: 无数据	致敏性(单次接触):实验老鼠在4.12-5.98 mg/L,4小时吸入试验下,出现吗
Melting Point: No Data	吸困难、发抖和肺部弥漫性的小幅白色病变(参考氧化铈)
闪点: 不燃	Allergenic (single contact): Experimental rats inhale 4 hours under test in 4.12 to
Flash Point No Data	5.98 mg/L, appears difficulty in breathing, trembling and pulmonary diffuse small
可燃性: 不可燃	white lesions (cerium oxide).
Flammability. Nonflammable	致敏性(反复接触):工人长时间暴露在稀土粉尘(例参考氧化铈)灰肺部在
比重: 6-7 mg/cm ³	发现积累的稀土元素。报告称,由于肺部纤维结构出现肉芽肿、间质肺气肿导
Specific Gravity: 6-7mg/cm ³	致肺功能和/或肺活量的下降(参考氣化铈)。
溶解性: 不溶于水	Contact allergenic (repeatedly): Workers exposed for a long time in the rare earth
Solubility in Water. Insoluble	dust (cerium oxide), it appears that grey lung accumulation of rare earth elements
10、稳定性和反应性 Stability and Reactivity	have been found. According to the report, due to the fiber structure appear granuloms
避免条件: 无数据	interstitial lung emphysema led to a decline in lung function and/or lung capacity
Avoid Conditions: No Data	(cerium oxide).
稳定性:在正常的存储和使用条件下,该产品被认为是稳定的材料	12、 生态 学伯息 Ecological Information
Stability: Stable under normal and anticipated storage and handling conditions.	生态毒性: 无数据
茶配物:无	Ecological Toxicity: No Data
Prohibited content: Nothing	持久性和降解:无数据
危险反应/分解产物:无数据	Persistence and Degradation: No Data
Hazardous Polymerization/Decomposition Product: No Data	生物富集: 无数据
24 D.D.	Bio-concentration: No Data
11、毒理学信息 Toxicology Information	其它有害的环境影响:无数据
急性毒性 Acute Toxicity:	Other Harmful Environmental Effects: No Data
「日本 (日本 Cut e Fourier)」 「「「」」」」 日展(前)LD50>5000 mg/kg(IUCLID(2000))前部第一日日(11日日) 「「」」」 「」」 「」」」 「」」」 「」」 「」」」 「」」」 「」」」 「」」 「」」」 「」」 「」」 「」」」 「」」 「」」」 「」」 「」」」 「」 「	XIN NENG GROUP LIMITED 13、废弃处置 Disposal 新 能 集 圖 有 限 公 司
Oral LD50 (rat) > 5000 mg/kg (IUCLID (2000))(RTECS)(Cerum Oxide)	在废弃时遵从国家的规则,地方的规则
皮肤(鼠)LD50>2000 mg/kg(IUCLID(2000))(参考氧化部)	Comply with all federal, state and local regulations.
Skin LD ₂₀ (rat)>2000mg/kg(IUCLID (2000))(RTECS)(Cerium Oxide)	不要倾倒入下水道,地面上或进入任何水体。
5 / T	6/7

Do not dump into sewers, on the ground or into any water body. 具体事宜参照贵国相关规定。	Shin'Etsu	SAFETY DATA SHEET
The concrete issues with reference to the rules in your country.	Onneccou	
14、运输信息 Transport Information	1. Chemical and compa	
*、 AA 相信AS I Fan Sport Information 参照書国相关規定。	Name of chemical (Product name)	Shin-Etsu Silicone-X-31-1598-2
With reference to the rules in your country.	MANUFACTURER	
Hazardous Materials: NVA, Sea transport: NVA, Air transport ICAO/TATA: N/A	COMPANY NAME CONTACT	Shin-Etsu Chemical Co., Ltd. Quality Assurance Department (Gunma Complex)
· · · · · · · · · · · · · · · · · · ·	ADDRESS	13-1, Isobe 2-chome, Annaka-shi, Gunma 379-0195, JAPAN 027-385-2172
. 法規信息 Regulatory Information 参照告国相关规定。	NUMBER	
	FAX NUMBER SUPPLIER	027-385-2753
With reference to the rules in your country.	COMPANY NAME CONTACT	Shin-Etsu Chemical Con Ind
OSHA STATUS. This product in not hazardous under 29 CFR 1910.1200	CONTACT	Planning & Administration Department Silicone Division 6-1, Ohtemachi 2-chame, Charlinky, Tokyo 100-0004, JAPAN
ISCA STATUS: All components on ISCA INVENTRY	TELEPHONE NUMBER	03-3246-5121
SARA TITLE III	FAX NUMBER	03-3246-5381
SECTION 302(40 CER 355): N/A	EMERGENCY Recommended use of the che	027-385-2172 (Holiday/Nighttime: 027-385-2111)
SECTION 311/312(40CER370): N/D	Intended use	RTV rubbers
SECTION 313(40CER 372): N/A	Restrictions on use	RTV rubber for electrical, electronic and general industry (gluing and sealing) Industrial use only.
其他信息 Other Information	2. Hazards identification	
据我们调查,本文中提供的信息是准确的。然而,东莞市思旺光电材料有	GHS classification	
公司不对本文信息的准确性和完整性承担责任。虽然对某些危险进行了解释	Physical hazards Health hazards	Flammable liquids Category 2 The product is not classified according to GHS.
明,但我们不能保证这些是唯一存在的风险,该物质还可能存在某些未知的	Environmental hazards	The product is not classified according to GHS.
	*Hazards not stated here an GHS label elements	e "Not classified", "Not applicable" or "Classification not possible".
险,诸谨慎使用。	Symbols	\wedge
According to our survey, the informations that mentioned in the article are	15 15	
rect. However, Bao Tou TianJiao Seimi Rare Earth Polishing Powder Ltd.Co. has	Signal words	Danger
liability for the accuracy and completeness of this article. Even though we have	Hazard statement	Highly flammable liquid and vapor.
lained some of the dangerous, still we cannot ensure these are the only risks, this	Precautionary statement Prevention	
terial also may have some unknown risks, please use caution.	Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tighti closed. Ground/bond container and receiving equipment. Use explosion-proof
用文献Reference		electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/sys protection protection.
COSH_危险化学品使用手册	Response	protection. In case of fire: Use appropriate extinguishing media for extinction. IF ON SKIN (or hair): Take immediately all contaminated clothing. Rinss skin with water/abover.
OSH Dangerous ChemicalsUsing Manual For and on behalf of	Storage	Store in a well-ventilated place. Keep cool.
全与卫生信息中心材料安全数据表 新能集 顧 有 限 公 司	Disposal Other hazards	Dispose of contents/container in accordance with local/regional/national/international regulat This product reacts with water , moisture or humid air to evolve following compounds: Acetone
ten al Safety Data Sheet of Safety and HealthyInformation Centeriushorised Signature(a)	Emergency overview	May be ignited by heat, sparks or flames.
	3. Composition/informati	
	Substance or mixture	Mixture (Silicone mixture)
	The second s	SDS Japan (En

		Gazette no	otification		Hygiene measures	Wash hands b	before breaks and imme il hygiene and safety pr	diately after has	ndling the product. Handle in ac
Components	CAS Number	ENCS no.	ISHL no.	Concentration (%)	Storage	good industria	a nygiene and salety pr	action.	
Crystalline free silica	Proprietary	Proprietary	Proprietary	10 - 15	Safe storage conditions	Keep away fro	om heat, sparks and op	en flame. Store	in cool place. Store in a well-ve of children. Store in a cool, dry p
kenoxysilane	Proprietary	Proprietary	Proprietary	1-5		direct sunlight.		or or the reaching	or children. Store in a cool, dry p
		Gazette no	tification		Safe packaging material				
ecomposition	CAS Number	ENCS no.	ISHL no.	Concentration (%)	8. Exposure controls/pe		ion		
petone	67-64-1	(2)-542	(2)-542		Occupational exposure limits Japan. OELs - ISHL. (Wo				
components are listed on ENC	5 (0.00)				Decomposition		ent Assessment Stand Type		/alue
Contains small volume of new ch	emical substance.)				ACETONE (CAS 67-64-1)		TLV		500 ppm
First aid measures									of Occupational Exposure Li
inhaled	Move to fresh air. Call a physician if symptom	a davalar ar ar			Decomposition		Туре		/alue
on skin	Take off immediately all contaminated clothin			ar Get medical	Acetone (CAS 67-64-1)		TWA	4	170 mg/m3
	attention if irritation develops and persists.			99395-000729-0009					200 ppm
in eyes	Rinse immediately with plenty of water for at and easy to do. Get medical attention if irritat	east 15 minutes.	Remove conta	ct lenses, if present	US. ACGIH Threshold Lin			23	222
swallowed	Rinse mouth. Get medical attention in initiat		persists.		Decomposition		Туре		/alue
otes to physician	Treat symptomatically.				Acetone (CAS 67-64-1)		STEL		500 ppm 250 ppm
Fire-fighting measures					Biological limit values				too ppm
tinguishing media	Water fog. Foam. Dry chemical powder, Carb				Japan, BELs - JSOH (Jap	an Society of Occ	upational Health: Rec	ommendation	of Occupational Exposure Lir
tinguishing media to avoid	None known.	on dioxide (CO2)	6.)	- 12	on Biological Monitoring)			
ecific hazards	By heating and fire, harmful vapors/gases ma	v be formed			Decomposition	Value	Determinant	Specimen	Sampling Time
	Nitrogen oxides. (corrosive)				Acetone (CAS 67-64-1)	40 mg/l	Acetone	Urine	•
ecial fire fighting ocedures	In case of fire and/or explosion do not breath so without risk.	fumes. Move co	intainers from fi	re area if you can do	* - For sampling details, pl		e document.		
otection of fire-fighters	Firefighters must use standard protective equi gloves, rubber boots, and self-contained brea	pment including	flame retardant	coat, heimet,	ACGIH Biological Expos Decomposition	Value	Determinant	Specimen	Sampling Time
		ming apparatus.			Acetone (CAS 67-64-1)	25 mg/l	Acetone	Urine	
Accidental release mea					 For sampling details, plus 				
crsonal precautions, rotective equipment and mergency measures	Keep unnecessary personnel away. Local au cannot be contained. Ventilate closed spaces protective equipment.	horities should be before entering t	e advised if sigr hem. Wear app	nificant spillages ropriate personal	Engineering measures	Explosion-proc Pay attention t hours after app	to ventilation such as lo	aust ventilation cal exhaust, me	. Provide eyewash station. chanical and/or door open for a
nvironmental precautions	Prevent further leakage or spillage if safe to d onto the ground.	o so. Avoid disch	arge into drains	s, water courses or	Personal protective equipme Respiratory protection		are facing concentrativ	int shous the e	xposure limit they must use app
thods or materials for ntainment and cleaning up	ELIMINATE all ignition sources (no smoking, combustibles (wood, paper, oil, etc.) away fro	flares, sparks or I	flames in imme	diate area). Keep	Hand protection	certified respire Wear protective	ators.		sposore militately maat use app
					Eve protection		ve gioves. plasses with side shield:	to an a construction of the construction of th	
	Large Spills: Dike the spilled material, where spreading. Use a non-combustible material lik and place into a container for later disposal.	his is possible. C e vermiculite, sar	over with plast nd or earth to se	c sheet to prevent bak up the product	Skin and body protection		protective clothing.	s (or goggles).	
					9. Physical and chemica	I properties			
	Small Spills: Wipe up with absorbent material remove residual contamination.	(e.g. cloth, neece	s). Clean surfac	e thoroughly to	Appearance				
	Never return spills in original containers for re				Form	Paste.			
	nover retorn spins in original containers for re	-U\$C.			Color	Milk-white			
Handling and storage					Odor	Mercapto odor			
ndling				can have be a state of the stat	pH	Not measurabl No data	le (Refer to water solub	lity)	
Technical measures (e.g. Local and general ventilation)	All equipment used when handling the produc explosion-proof equipment. Vapors may form ventilation.	t must be ground explosive mixture	ed. Use non-sp as with air. Prov	arking tools and ide adequate	Melting point/Freezing point Bolling point, initial bolling point, and bolling range	No data Not applicable			
Safe handling advice	Do not handle, store or open near an open fla	me, sources of he	eat or sources of	of ignition. Protect	Flash point	59 °F (15 °C) (Closed Cup		
	material from direct sunlight. Do not smoke. T discharges. Use care in handling/storage. Do	ake precautionan	v measures aga	ainst static	Auto-ignition temperature	No data			
	exposure.	inconcentric mast	or report. Avoid	protongeo	Flammability limit - lower (%)	2.1 % v/v [Acet	tone]		
Contact avoidance	Refer to section 10: stability and reactivity.			54 C	Flammability limit - upper (%)				
measures					Vapor pressure	Negligible (25			

<text><text><text><text><text><text></text></text></text></text></text></text>	Company name: Shin-Etsu Chemical	Co., Ltd. Refe	rence #: GCSAS0/04 Version #: 03 I	Revision date: 02-23-2017
Becomposition in the second	Other information	Acetone The followin although the exclude the	ng raw material are not classified acc av are subject to labeling requirement	cording to the classification criteria of GHS, trunder ISHI, However, no classification doe
Decomposition Species Test Results Acatem CSS Water fea (Daphnia magne) 10294 - 17704 mg/, 48 hours Fin LCSO Finite and memore (Pringmakes promises) > 100 mg/, 90 hours Extension Extension Finite and memore (Pringmakes promises) > 100 mg/, 90 hours Extension LCSO Finite and memore (Pringmakes promises) > 100 mg/, 90 hours Extension Robert and the product will generate in indicately exploped for all an and the finite product will generate in indicately exploped for all an and the finite product will generate in indicately exploped for all an and the finite product will generate in indicately exploped for all an and the finite product will generate in indicately exploped for all an and the finite product will generate indicate and generate indicated will explore a tabulate. CH Transport Information Incordation with finite product will generate in indicately exploped for all an and the finite product will explore a tabulate. UN number UN1973 Incordation with finite and tabulates. Case B Beckel presention for all of a Mineration stabulate. Case Mineration stabulate. Mineration stabulate. Case B Beckel presention for all of a Mineration stabulate. Case B Beckel presention for all of a Mineration.	12. Ecological informatio	n		
AgentDescriptionDescriptionDescriptionDescriptionDescriptionFindE.G.Witter field (Disprint mergint)10.244 + 17704 mg/t, 48 hoursFindE.G.Witter field (Disprint)10.244 + 17704 mg/t, 48 hoursFindE.G.Witter field (Disprint)10.244 + 17704 mg/t, 48 hoursFindE.G.Witter field (Disprint)10.244 + 17704 mg/t, 48 hoursFindE.G.Witter field (Disprint)17704 mg/t, 48 hoursFindE.G.E.G.Mitter field (Disprint)10.244 + 17704 mg/t, 48 hoursFindE.G.Witter field (Disprint)	Decomposition		Species	Test Results
Cinational EG3 Water fee (Daphin in regulation) 1024 + 1774 mg/l, 4 hours. The initial ini				
Fab Cale Beta denome (Principality controls) > 100 mg/, 00 mg/, 0				
Exercising A canable. 1.3. Disposal considerations B canable. 2.3. Signal considerations B canable. 2.4. Signal considerations B canable. 2.5. Signal considerations B canable. <t< td=""><td></td><td></td><td></td><td></td></t<>				
1.1. Disposed considerations Reference in the processing processing				omelas) > 100 mg/l, 96 hours
Local disposal regulation Rot functionics - indirustic, bioinstatic abioid way generative proposed pr	and the second s			
14. Transport information International regulations IAT Market of Market		Not hardeni other fine po appropriate Hardening s and other fir appropriate Contract wit	owder which the product will general personal protective equipment(s) substance : Bury or incinerate. Incine ne powder which the product will ge personal protective equipment(s) so in a discossi operator licensed by th	te in incineration. Workers should wear ch as respirator. rator should be appropriately equipped for si nerate in incineration. Workers should wear ch as respirator.
International regulations UXT U	14. Transport information			
VM UN 1993 UN proper shipping and Functional class(s) UN proper shipping and Functional class(s) Based and class(s) S Based and class(s) Allowed with restrictions. Based and class(s) S Based class class(s) S<				
UN number UN1993 UN number UN1993 Transport heard classes Case of the sector of the				
UK proper ahlpping name Flammable liquid, n.o.s. (Alkanosystane) Case Gamma Flammable liquid, n.o.s. (Alkanosystane) Case Gamma Flammable liquid, n.o.s. (Alkanosystane) Environmental hazard is not interval to the standard flammable liquid (n.o.s. (Alkanosystane)) Environmental hazard is not interval to the standard flamma Flammable liquid (n.o.s. (Alkanosystane)) Case Gamma Flammable liquid (n.o.s. (Alkanosystane)) Case Gammable liq		LINHOOD		
Clear 3 Bubballary trick 0 Problem prop 0 ERG Core 3 Backel precurions for user Read safe virautons, SDS and emergency procedures before handling. Other behowsing Backel precurions for user Backel precurions for user Read safe virautons, SDS and emergency procedures before handling. Other behowsing Backel precurions for user (Back with restrictions, SDS and emergency procedures before handling. Marge problem prace. CAMMABLE LIGUID, N.O.S. (Alternoryslame) Transport hazard classes Backel precursons for user (State Precursons) Backel precursons for user (State Precursons) None (State Precursons) Backer (State Precursons for user (State Precursons) Facker (State Precursons) Anser (State Precursons for user (State Precursons) Facker (State Precursons) Anser (State Precursons for user (State Precursons) Facker (State Precursons) Anser (State Precursons)	UN proper shipping name	Flammable	liquid, n.o.s. (Alkenoxysilane)	
Subsidiary risk - Peckag group - Benefag group - Outh Information - Benefag group - Benefag proverial - Benefag proverial basede - Benefag proverial basede - Benefag proverial basede - Benefag proverial basede - Benefag p	Class			
Petching group II Burdinous Inbazeda Ko Borsida James International Status Phatuctions, SDS and emergency procedures before handling. Other information Passanger and carge Allowed with restrictions. alrea Allowed with restrictions. Carge alreat carge Allowed with restrictions. Carge alreat carge Allowed with restrictions. With response alread carge Allowed with restrictions. With response allowed and the restrictions. With response allowed with restrictions. Carge Allowed With restrictions. With response allowed allowed allowed allowed allowed allowed with restrictions. With response allowed allow	Subsidiary risk	-	20 A	
ERG Code 3H Backel presentions for user fields with restrictions, SDS and emergency procedures before handling. Other Information Carge alroration (Carge Allowed with restrictions, Carge alroration) Allowed with restrictions. MOC User WH983 User State (Carge United States) User States (Carge United States) Carge alroration (Carge Carge Carg	Packing group			
Beekal precautions for user Read safety instructions, SDS and emergency procedures before handling. Coder information Pressent and cargo Allowed with restrictions. Code and an experiment of the second se				
Other Information Allowed with restrictions. Jaccal Allowed with restrictions. Jaccal Allowed with restrictions. MOG UN number UN number UN1983 UN proper halping name. CAMMANEL LUCUID, N.O.S. (Alkenoryslane) Transport hazard classies) 3 Subsidiary risk 3 Packing group 1 Environment hazard 5 Packing group 7 Environment hazard 5 Subsidiary risk 2 Transport hazard classies) 7 Transport hazard classies 7 Special processions for user Rest alsketly instructions, SDE and emargency procedume before handling. Transport hash eccording to This product is not intended to be transported in bulk. Anse Higt Classies 1			instructions SDS and emergency	roonduros hofero handlina
Passanger and cargo Allowed with restrictions. aircraft only Allowed with restrictions. Cargo aircraft only Nomed with restrictions. UN mamber HVB03 UN mamber FLAMABLE LUOUD, N.O.S. (Alexnoxystane) Class 3 Subditary risk 3 Principane Flat Arrisk 6 Principane Flat Arrisk FLS.S.S. SDS and emergency procedures before handing. Transport in Subt according to the product is not intended to be transported in bulk. The product is not intended to be transported in bulk.			and emergency p	occoures percre nandling.
aircaft and arge aircaft only Alowed with restrictions. MOG In number UN1993 UN proper hipping name. FL/MARLE LUQUID, N.O.S. (Alkenoxysilane) Transport hazard classics) Class of the second se	Passenger and cargo	Allowed with	n restrictions.	
INCG UN 1983 UN unmber UN 1983 UN arrows alkeping and the stand class(s) FUAMABLE LOUID, N.O.S. (Alkenovyslane) Transport Autor class(s) 3 Subalitary risk 3 Subalitary risk 1 Environmental hazards 1 Environmental hazards F.E. S.E Ends F.E. S.E Subalitary risk The product alkely instructions, SDS and emergency procedures before handling. Ansex of MAXPOL 7378 and The product is not intended to be transported in bolk.				
UN number UN1993 UN proper hiphips name (FVMARLE LOUID, N.O.S. (Alkenoxyslane) Transport hazard case) Salar Alkening group II Environmental hazards Martine pollutant R. S. Special prevations for user Red salarly instructions, SDS and emergency procedures before handling. Transport in bulk according to This product is not intended to be transported in bulk. Annex II of MARDOL 7378 and bis BDC Code	Cargo aircraft only	Allowed with	restrictions.	
UN proper shipping name FLAMMARELE LUQUD, N.O.S. (Alexnoxyslanc) Transport Razard class(e) Subdidity risk Subdidity risk Privionanstella hazards Marine politant No. End F.E. 9-E Special presations for user Resident ship inhurchons, SDS and emergency procedures before handling. Transport in bulk according to Transport in bulk according to the product is not intended to be transported in bulk.		UN1993		
Cise 3 Subliding risk 9 Packing group 10 Marking population No. 5 End 5 Special precessitions for user Reset stel/s interfunctions, EDS and emergency procedures before handling. Transport In bulk according to This product is not intended to be transported in bulk. And to In ARAPOL 73/78 and the Intended to be transported in bulk.	UN proper shipping name		E LIQUID, N.O.S. (Alkenoxysilane)	
Subsidiary risk Packing group II Environmental baards Marine poliutant No. Special precautions for trust Fiscal safety instructions, SDS and emergency procedures before handling. Transport in baak according to This product is not intended to be transported in book. Annex II of MARPOL 73/78 and the IBC Code		3		
Environmental hazards Martine poliutint No. End F.G. 9-E Special generations for user Read whethy instructions, SDS and emergency procedures before handling. Annex E of MARPOL, 73/78 and the BIC Code	Subsidiary risk			
Marine poliutant No. End F-E, S-E Special precaritions for user Read safety instructions, SDS and emergency procedures before handling. Transport has base scending to Annee II of MARPOL 73/78 and the IBC Code				
End F-E_9-E Special precautions for user Reads attely instructions, SDS and emergency procedures before handling. Transport in Judic according to This product is not intended to be transported in bulk. This product is not intended to be transported in bulk. the IBC Code		No		
Special proceedings user Read safety instructions, SOS and emergency procedures before handling. Transport in bulk according to This product is not intended to be transported in bulk. Annex II of MARPOL 73/78 and the BIC Code				
	Special precautions for use fransport in bulk according to Annex II of MARPOL 73/78 and	r Read safety	instructions, SDS and emergency p t is not intended to be transported in	rocedures before handling. bulk.
SDS Japan (Englis	ne IDC CODE			
SDS Japan (Englis				
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SDS Japan (Englis				
Guo apar (Ergis				SDS Janan (End
				Sus Japan (Eng

o., Ltd. Ref

> 1 (air=1) [Alkenoxysi < 1 (Butyl Acetate=1) 1.06 (25 °C) Not soluble Not applicable

Not available. 11 Pa·s (25 °C)

No hazardous reaction known under norm Stable at normal conditions. Hazardous polymerization does not occur.

Thermal breakdown of this product hazardous decomposition product: Carbon oxides and traces of incom

Mouse Rat Speci

Rat

Mouse Rabbit Rat

agents. Water, moisture. acts with water, moisture or he

A4 Not cassifiace as a m Evaluation of Carcinogenicity IS Proprietary) 3 Not classifiable as to ca Suspected of damaging fertility or the unhom child (Aceter May cause damage to the following organs. Respiratory tract initiation. Narcolic effects. (Acetone)

wing organs through pr

May cause damage to the folk Blood. [Acetone]

uring fire or very high heat conditio

Test Re

> 15000 mg/kg > 22500 mg/kg Test Results

50.1 mg/l, 8 Hours

SDS Janan /Er

3000 mg/kg 5340 mg/kg 5800 mg/kg

lity and

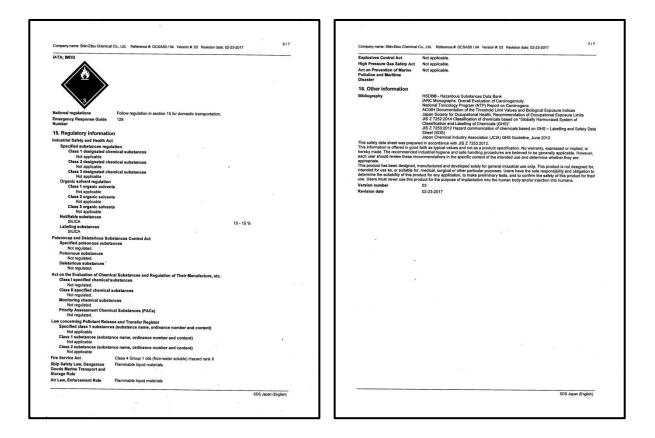
11. To

Acute Oral LD50

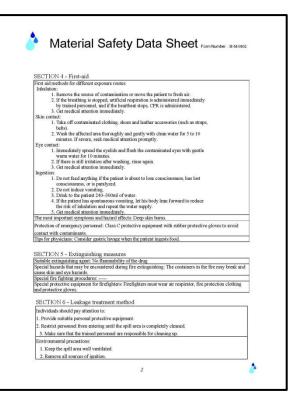
(CAS 67-64-Inhali LC50 Oral LD50

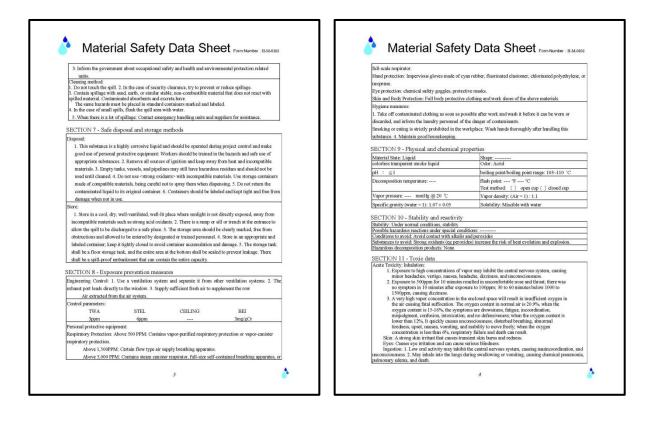
rence # GCSAS0 / 04 Version #: 03 Revision date: 02-23-2017

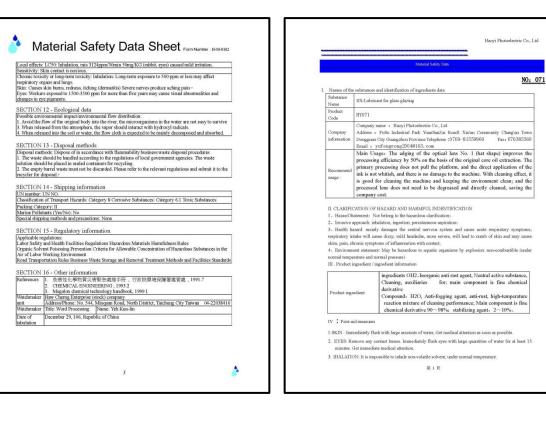
tce with











			Haoyi Photoelectric Co., Ltd	Haoyi Photoelectric Co.,
		Material Safety Data		Material Sately Data
V: fire precaution measure				XI: Texicological information
		nbustible, will not burn under f	ame	 Acute toxicity: LD50 2560mg/kg (rats intake by mouth) LC50 88032mg/m3 (rats intake by mouth
2. Hazardous combustion				for 30 minutes)
		ents: usually not required, can	una erenur unitar foarn, dre	 Subacute and chronic toxicity: Dizziness, conjunctival irritation, etc. XII: Ecology information:
powder, CO2, sand if neo		pone, usuany not required, can	use spray water, toats, ury	This product is harmless to the environment and can be directly discharged into the sewer by dissolving with water.
4. Fire-fighting precaution	ns: Firefighters shoul	d wear gas masks		XIII: Disposal treatment:
VI: ACCIDENTAL LEAF	KING MEASURES	:		1. Waste properties: non-toxic
1. Rapidly evacuate peop	le from contaminated	l areas to safe areas		2. Disposal method: Dilute with water and directly go into the drain,
2. Small amount of leakag				XIV: TRANSPORT INFORMATION:
 Large amount of leakage transport it to a waste disp 		er digging a pit; transfer to a sp	ecial collector with a pump and	Transportation ways: forbidden transport by air but can be by land or water
VII : Handling and storag	e			Paoking category: II
		ke sure the vapor concentration	is below the threshold	Package: 25KG/barrel 200KG/barrel
Storage precautions: Regu VIII :Contact control and		iethod		Transportation protection measures:
1. Engineering control: O	perate in a closed are			1. No impact or harm to the container during the packaging
		we the threshold, use the entire act does not affect, it is non-to:	breathing apparatus cic and non-corrosive products,	2.Don't fall down the container from a high place. No piled up to avoid collision. Be careful to avoid losing
general protection can do;				or stole and so on. 3.Forbidden to transport with edible chemicals, avoid direct sumhine, rain and high temperature during
IX :Physicochemical prop	serty			transportation.
Melting point		Boiling point	115℃	XV: RULE AND REGULATIONS INFORMATION
Substances state	10000		Milky white or light	Hazardous Chemicals Safety Management Regulations (implemented on March 15, 2002)
Substances state:	liquid	Color	green	Regulations for the Administration of Chemical Dangerous Goods Safety Regulations (implemented on
odor	no	PH value	7	September 28, 1992)
Dense g/cm3(20±1°C)	1.10++	water-solubility	Completely soluble in water	Provisions for the safe use of chemicals in the workplace (implemented on January 1, 1997)
X: Stability and reactivity		1		XVI: Other information:
1. Stability: stable				Non relevant information (instructions and procedures have been explained in Article 8)
2. Incompatibility with va 3.Avoiding contact condit	tions: flames, high he	at		
 Polymerization hazard Decomposition product 		1		
				第3页

KON CHINGE NC SOSTUMIST BS22 Present Norme GURPCHITAR 1000	SAFETY DATA SHEE	ET rov. 6.2 Date of Issue 2014/9/1 Revised Date 2016/11/22	CANON OFTEOR INC. SOS Number: ES22 Product Name: SURFCLEAR 100	SAFETY DATA SHEE	ET rev. 62 Date of Issue Revised Date
SECTION 1 Chemicals and company id	entification			Skin sensitization	Category 1A
Chemical idetifier	SURFCLEAR 100			Germ cell mutagenicity	Classification not possible
SDS number	ES22			Carcinogenicity	Classification not possible
Company name	CANON OPTRON INC.			Reproductive toxicity	Classification not possible
Address	1744–1. Kanakubo, Yuki-shi, Ibaraki-ke	n. 307-0015 Japan		Effects on or via lactation	Classification not possible
Section name	Internal Control Promotion Div.			Specific target organ toxicity(single	Category 1
Telephone number	+81-296-21-3700 (Sales Dept.)			exposure)	
Fax number	+81-296-21-3770			Specific target organ toxicity(repeated exposure)	Classification not possible
Emergency telephone tumber	+81-296-21-3700 (Sales Dept.)			Aspiration hazard	Classification not possible
Recommended uses and restrictions on use	Vacuum deposition material , Optical or	ryotal material	Environmental hazard	Hazard to the aquatic environment(acute hazard)	Classification not possible
SECTION 2 Hazards identification				Hazard to the aquatic environment(long-term hazard)	Classification not possible
GHS Classification (A classific	ation by JIS Z 7252 "classification methods	such as chemical substances based on GHS")		Hazard to the ozone layer	Classification not possible
Physicochemical hazard	Explosives	Classification not possible			
	Flammable gases (including chemically unstable gases)	Not applicable	Label element		3
	Aerosols	Not applicable	Pictogram (Symbol)	Exclamation Health Haza	ird
	Oxidizing gauge	Not applicable		~ ~	
	Gases under pressure	Not applicable			
	Flammable liquids	Not applicable		(XA	
	Flammable solids	Classification not possible			
	Self-reactive substances and mixtures	Classification not possible		\sim \sim	
	Pyrophonic liquids	Not applicable	Signal word	Danger	
	Pyropharic solids	Classification not possible	Hazard statement	May cause an allergic skin reaction. Causes damage to organs.	
	Self-heating substances and mixtures	Classification not possible	Precautionary statement		
	Substances and mixtures which in contact with water emit Flammable gases	Classification not possible	[Safety measures]	Do not breathe dust/fume/gas/mist/v Avoid breathing dust/fume/gas/mist/v Wash hands thoroughly after handling.	apours/spray.
	Oxidizing liquids	Not applicable		Do not eat, drink or smoke when using Contaminated work clothing should not	be allowed out of the workplace.
	Oxidizing solids	Classification not possible		Wear protective gloves/protective clot	hing/eye protection/face protection.
	Organic peroxides	Classification not possible	[First-aid measures]	IF ON SKIN: Wash with plenty of soap a If exposed or concerned: Call a poison	and water. center or doctor/obysician
	Corrosive to metals	Classification not possible		Specific treatment If skin irritation or rash occurs : Get me	
Health hazard	Acute toxicity(eral)	Classification not possible		Take off contaminated clothing and wa	
	Acute toxicity(dermail)	Classification not possible	[Storage]	Store in a well-ventilated place. Keep of	container tightly closed.
	Acute toxicity(inhalation)	Classification not possible	[0:1]	Store locked up.	and the second second second
	Skin correction/irritation	Classification not possible	[Disposal]	Dispose of contents/container in accord	roance with national regulations.
	Eye damage/eye irritation	Classification not possible			
	Respiratory considuation	Classification not possible			
	1 / 9Fapr			2 / 9Paga	

ON CPLINON NC SOS IUmion ESS2 Protect Name: GUIPTCE FAR: 102 C	SAFETY DAT	A SHEET	rov. 6.2 Date of Ionue 2014/ Revised Date 2016/1	CANON CPTINON INC 303 (Lonton) Protect Nones	BSI2 GUPPOITAR 100	SAFETY DATA		. 6.2 Date of lasue 2014/9 Revised Date 2016/1
SECTION 3 Composition and information i	ngredients			Environe	nental precautions	Do not flowing in rivers an	d sewage directly spillage.	
Substance/Mixture	Mixture				and materials for	And collected in drums or	paper bags are collected to	wear or have rake those
Chemical name or generic name	Copper	lenes	Fluoropolyether compound		hert and methods and a for cleaning up	leaked. I to absorb in asw-dust or recovery after	sediment residue content o	of the email amount of
Chemical formula	Cu	Fe	Fluoropolyether compound	Seconda measure	ny disaster prevention s	No data available		
CAS No.	7440-50-8	7439-89-6	Confidential-6					
Concentration or concentration ranse	Cutfe : \$6.9-99.0 Fluoropolyether.compou	od - 10-31	· · ·	Second Control Second	ndling and storage preca	utions		
100EA		10. 10 0.1		Handling				
TSCA Inventry	Total = 1005 Cooper	Iran	Listed on the TSCA	Tec	hnical measures	I wear the appropriate pro etc. After handling Wash I	tective equipment safety pli rands face, etc., and gargle	esses, protective gloves,
EINEGS number	231-159-6	231-096-4	Inventory No deta available	Sufi	ety handling predations	When handling, to handle is exhaust under.	n place with equipment for ,	general ventilation or local
Redioactive information			sterial. Thus, evidence of ionizing	Storage				
heloacove mornadon	radiation occurs is not p		acerta, trida, entre ce torizzing,	Safe	e storage conditions	Store tightly closed conta	ner in a well-ventilated plac	:e.
SECTION 4 First-aid measures				Sufi	ety packaging material	No data available		
Inhalation	It is possible to move to	fresh air vistim immed	lately and keep at reat in a	SECTION & Fu	posure controls and pers	and an end of the		
	position confortable for If you feel bad, you shou	breathing. Id contact your doctor	5	SECTION & EX	postrie controla and bers	<u>Gu</u>	<u>Fe</u>	Fluoropolyether
Skin	Take off all contaminate I flush for 15 minutes or and pain comes, get med	more with soap and pl	enty of water. If symptoms blisters	00000355	ble concentration			
Eye	using the contact lenses removed.	a, as long as it is not fi	n water immediately. If you are ed. it can be washed and	AC	GIH	TLV-TWA 0.2 mg/m3 (fume) TLV-TWA 1 mg/m3 (dust or mist)	No data	TWA 200ppm (methanol decomposition products) STEL 290ppm (methanol decomposition products)
	Be subject to medical at			22-54		(2005 Edition)		(2012 edition)
Ingestion	Rinse mouth immediately Be subject to medical at	tention without fail.		2008-2008 2019-2019	ing controls	To use devices that are so equipment.	raled as much as possible. I	osal exhaust ventilation or
Protection of first aiders	Rescuers Wear protectiv gloves.	re equipment protectiv	e eyewear, such as protective		I protective equipment piratory protection	Dust mask		
SECTION 5 Fire-fighting measures				Han	d protection	Protective glove		
Extinguishing media	The product itself does a	not hum		Eye	protection	Dust-proof glasses		
Extinguishing media are unsuitable				Skir	and body protection	Protective clothing		
Spesific hazards	No data available							
Specific extinguishing methods	The movable container a case of surrounding fire.	and transferred to a sa	fe place as soon as possible in	SECTION 9 Ph Appeara	ysical and chemical prop noe	ertes		
Protection of fire-fighters	In fire fighting. I want to equipment.	wear (gloves, glasses.	mask) the appropriate protective		sical state	Solid		
				For		Cup, fibrous		
SECTION 6 Accidental release measures				Cok	bur	Red cooper color and dark	8.9A	
Personal precautionsprotective equipmentand emergencyprocedures	Wear it (which openity w equipment, such as spra at the time of work.	hat suited the nature i y or on skin, we do not	of the product) protective want to dust inhalation, the gas	Odour		None		
				1 1				

SELNER GUPPOLEAR 100	SAFETY DATA		ev. 6.2 Dats of lasue 2014/9/1 Revised Date 2016/11/22	Product Names COUPPORTAR 102	SAFETY DATA		/ 6.2 Date of Issue 2 Revised Date 2
	<u>a</u>	Ee	Fluoropolyather comeound	Hazardous reactions	Reacts with oxides (chlorates, bromates, and indates, etc.), so there is	Produces rust when in presence of humidity.	Hazardoua polymerizatio will not occur
pH	No data	No data	No data availabla		a risk of explosion		
Melting point. Treezing point	1083°C	1535°C	Not applicable	Conditions to avoid	Contact with humidity and hazardous reactive	High temperature humidity, and flame	None
Boiling point/Initial boiling point and boiling range	2595°C	2730°C	Not applicable	Incorrectible materials	nazaronus reactive meterials. Acetylene compounds,	Strong acids and ammonia	
Flach point	No data	Nonu	No data available	incompacible materials	ethylene oxides, axides,	Strong acids and animorna	water, acid alkali
Evaporation rate	No data	No data	No data available		and existants (chiorate, bromate, iodete, etc)		
Flammability (solid, gas)	Combustible	No data	No data available	Hazardous decomposition products	Carbon monoxide, carbon	No deta	This article is to general
Explosive limits					diaxide, and copper fumes produced by combustion.		(hydrolysis), methanol in response to mild acid an
LEL	No data	No dete	No deta evailable				water, and the sikeline compound. There is a possibility that harmfu decomposition gases containing hydrogen Ruaride by combustion, carbonyl fluoride, carbon monoxide.
UEL	No data	No dete	No data available				
Vapour pressure	0.073Pa (mp.) 0.13kPa (1628 °C)	No dete	Fine (25 °C)				
Vapour density (air = 1)	No data	No data	No data available				
Spenific gravity (Relative density)	8.92	7.86	1.78(25°C)				and low-molecular Ruorocarbans, generates
(Density)							carbon dioxide, or heat
Solubility		1	12	SECTION 11 Hazard information			
Water	Insoluble	Insoluble	Insoluble	aconow in mazara momadon	Qu.	Ee	Fluoropolyether
Other solvents	Soluble in nitric acid and heated sulfuric acid Dissolves slowly in annoclum hydroxide Organic solvent: No data	No deta	No deta evallable	Acute toxicity(oral)	Drail rabbit LDL0 120 V 8/NH	Oral administration in rat; LD50: 30 g/kg. Introperitoneal	compound LD50: 14.1g/kg (rabbit) (methanol decomposition products:)
n-octanol/Water partition coefficient	log Pow = -0.57 (EST)	No data	No data available			administration in rat: LDLo: 20 mg/kg Oral administration in	L050, 7300mg-kg (rat) (methanol decomposition products.)
Auto-ignition temperature	No data	No data	No deta evallable			euines pie: LD50: 20 ms/hs	LD50: 5828mg/kg (rat) (methanol decomposition
Decomposition temperature	No data	No deta	No deta evailable			1100 110	products)
Viscosity (Coeffiient of viscosity) Other data	No data None	No dets None	No deta evailable None	Asute taxisity(dermal)	No data	No data	LD50-15800mg/kg (rabbit) (methanol decomposition products:
	0		1.	Acute toxicity(inhalation)	When inhaled, causes a	No deta	L050: 87.5mg /1 (ret)
CTION 10 Stability and reactivity	Qu	Ee.	Eluoropolyether compound		burning sensation, cough, headache, and sore throat		(methanol decomposition products)
Reactivity	No data	No data	No dete evallable	Skin corrosken/imitation	When contacted with skin produces a symptom of	Na data	No data available
Chemical stability	Turns green upon exposure to humid sir. Compounds sensitive to	Slowly oxidizes in the atmosphere.	Stable under normal conditions	Eye damage/eye initation	reddening. If contracted with the systs, symptoms of	No data	Strong eye irritation (methanol decomposition
	shock are formed by acetylene compounds, athylana oxidas, and azides				reddening and pain occur. There may be initation.		products:

IN CPTHON INC 305 Numbri - ESS2 Product Numati - GUIPECH FAR 1033 C	SAFETY DATA	A SHEET	rev. 6.2 Date of Issue 2014	CARON CPINON INC SCS Number - ES22 Product None: GUIPECI FAR 100	SAFETY DAT	A SHEET	rev. 6.2 Date of losue 201
		1.000	Revised Date 2016		100000 M	140000000000000000000000000000000000000	Revised Date 2016
Respiratory constituation/Skin sensitization	The Japan Society for Occupational Health cleasifies this as Group 2 Skin Semilization (a substance thought probably to semilize human), but The Japanese Society for Dermstallergology and	No deta	No deta evañable	Other organisms	No data	No dets	E030 piant white water Res 3: 10000mg / 1.401/r (methanol decomposition products) LCS0 Fathead microw (Prosphales promotes) 100mg / 1.90/r (methanol decomposition products)
	Contect Dermstitis has not classified this.			Persistence and degradability	No data	No data	No data available
Germ cell nutagenicity	No data	Na data	No data available	Bioaccumulative potential	No data	Na data	No data availabla
Carcinogenisity	The EPA has classified	Na data	No data available	Mobility in soil	No data	No data	No deta evailable
ion an age and	the product as Group D	See Gala		Hazard to the ozone layer	No data	No data	No data available
	(substances not classifiable as to human caroinogenioity);			Others	No data	No dete	No deta evallable
Reproductive toxicity	No data	No deta	Fear fertility or the	SECTION 13 Notes on disposal			
Reproductive taxionly	no data	no asts	unborn child (methanol decomposition products:)	Waste from residues	Entrust the process to inc license from the governor	lustrial waste dispo	eal contractor has received a
Specific target organ toxicity(single exposure)	Fumes irritate the upper respiratory tract. Considered to be respiratory tract irritation.	No date	Which may affect the following organs Central norvous system, systemic toxicity, organ	Contaminated container and contaminated packaging	Recycle or in the clean or with the criteria of the rel		ppropriata disposal in accordance iquence municipality.
			of vision, respiratory treat imitation, anesthetic action (methanol decomposition products;)	SECTION 14 Transport information	<u>Cu</u>	Ee	Fluoropolyether compound
Specific target organ	Hepatic enlargement was	No data	May have an impact on	International regulation			
toxicity/repeated exposure)	observed in workers exposed to a high		the following argans through prolonged or	UN cleasification	N/A	NA	Not applicable
	concentration in the air (estimated intake: 200		repeated exposure over time	UN number	None	None	None
	meriday).		Neksgemi nervous system, organ of vision	UN proper shipping name	-		
			(methanol decomposition products)	Packing group	N/A	N/A	Not applicable
Aspiration hazard	No data	No deta	No deta evailable	Japanese lows and regulations	None	None	None
Others	None	no cata	no deta evanavre	Conditions and specific safety	When transporting.	No data	Not applicable
Summe				measures of transport	protect from direct sunlight and take on careo without breekase or		
SECTION 12 Ecological information					container, corresion and		
	Qu	Ee	Fluaropolyether sompound		leakage. Do not trensport with		
Ecotoxisity			compound		food and feedstuffs. Do not stack heavy good		
Fish	No data	No data	No data available		thereupon.		
rish Crustaceentoxicity(singleexpos		No deta	No data available	-			I
ure)	No data	NO GELE	NO CIELA EVANADIO	SECTION 15 Regulately information (Jap	nan) Qu	Ee.	Elupropolyether
Algae	No data	No deta	No deta evailable		MK		compound
				PRTR Law	None	None	No data available
				Occupational Safety and Health Law	There is it in the case of an application or an application	None	No data available
					No.	<u>,</u>	

505 Nones BJEFCI FAR 102	SAFETY DATA		. 6.2 Date of Issue 2014/9/1 Revised Date 2016/11/22
Poisonous and Deleterious Substances control Law	None	None	No deta evailable
Explosives control Law	None	None	No data available
High-pressure gas security Law	None	None	No data available
Fire fighting Law	None	There is it in the case of an application or an application	No deta evailable
Chemical substances control Law	None	None	No dete evailable
Ship safety Law	There is it in the case of an application or an application	There is it in the case of an spollostion or an application	No deta evaliable
Aviation Law	There is it in the case of an application or an application	There is it in the case of an application or an application	No data available
Prevention of marine pollution Law	None	Nonu	No data available
Pneumocorrios is Law	None	None	No data available
Note	Ensure this material in con conformity to local regulat	mpliance with federal require	ements and ensure
SECTION 16 Other information The Safety Data Sheet (SDS) has	i been prepared based on co	errently available materials. I	nformation and data, and may be
The Safety Data Sheet (SDS) has revised based on new information I	Further, the important point is a specialized manner, take	s in the SDS are made for the the appropriate safety mea	e purpose of normal handling. sures for the application or method.
The Safety Data Sheet (SDS) has revised based on new information I When handling the user product in Further Cannor Outron Inc. has pa	Further, the important point is a specialized manner, take	s in the SDS are made for the the appropriate safety mea	e purpose of normal handling. sures for the application or method.
The Safety Data Sheet (SDS) has noised based on new information When handling the user product is Further. Como Option his. Is as pa accuracy of its contants. Literature Reference (References) Industral Safety and Health Act /	Further, the importance point a specialized manner, take and sufficient attention to the UI Data of MSDS. Target Suf UI Data of MSDS Target Suf Incess Control Act All Data sufficient Al Data of MSDS T Somementstone (Flical 2016) and Evolution Homesage or Safety and Hash Has Hare Homesage	in the SDS are made for the septometer advey mea e described contents of the described contents of the setting of the setting of the Detences. The Chemical Dai of MSDS Target Substances. The Chemical capan Society for Occupat Lapan Society for Occupat	re purpose of normal landing, surves for the suplication or method. SDS, but does not guarantee the y Co., Ltd (2003) The Chemical Daily Co., Ltd (2003) nicid Daily Co., Ltd (2003)
The Safety Data Sheet (SDS) has noised based on new information When handling the user product of the second of the second of the second second of the contents. Literature References [References] Industral Safety and Heath Act A Poissons and Determines Subst Poilature Reference and Transfer Poissons and Determines Subst Poissons and Determines Subst Poisson (Safety Safety Saf	Further, the importance point a specialized manner, take and sufficient attention to the UI Data of MSDS. Target Suf UI Data of MSDS Target Suf Incess Control Act All Data sufficient Al Data of MSDS T Somementstone (Flical 2016) and Evolution Homesage or Safety and Hash Has Hare Homesage	in the SDS are made for the septometer advey mea e described contents of the described contents of the setting of the setting of the Detences. The Chemical Dai of MSDS Target Substances. The Chemical capan Society for Occupat Lapan Society for Occupat	re purpose of normal landing, surves for the suplication or method. SDS, but does not guarantee the y Co., Ltd (2003) The Chemical Daily Co., Ltd (2003) nicid Daily Co., Ltd (2003)

		File No. 14-0460-022 June 20, 2014 Revision No. 02 1/
	Sa	fety Data Sheet (SDS)
Product name and company information	Product name Company name Address Telephone number Fax number Emergency contact number	GT-71 Thinner Casen Chemicals Inc. HeadquarteryTharaki Office 1888-2 Kukizaki, Tuskuba Cirj, Ibraki Prefecture +81:29479-2111 (Goerni) +81:29479-533 +81:29479-6063
Hazarda	GHS classification	Physicschemical hazard • Category 2 Flammahle Liquid Health hazards • Category 4 Acute Toxistiy (oral) • Category 4 Acute Toxistiy (oral) • Category 4 Acute Toxistiy (oral) • Category 2 Saics Corresion for Acute Acute Acute • Category 2 Saics Corresion/Instance • Category 2 Saics Corresion/Instance • Category 2 Saics Deep Damage/Type Irritation • Respiratory or Sain SemiTarators: Respirator-Cannot be classified • Oradia of category for Garaction Acute Acute • Oradia of Category for Sain SemiTarators: Respirator- • Category 2 Sain SemiTarators: Respirator-Cannot be classified • Oradia of category for Category for Category • Oradia of Category for Sain SemiTarators: Respirators- • Category 1 (Acutelleci acido, airway irritation) • Category 2 Acute Acutelia Category • Category 1 (Acutelleci acido, airway irritation) • Category 2 Acute Acutelia Category • Category 1 (Acutelleci acido, airway irritation) • Category 2 Acute Acutelia Category • Category 1 (Acutelleci acido, airway irritation) • Category 2 Acute Acutelia Category • Category 1 (Acutelleci acido, airway irritation) • Category 2 Acute Acutelia Category • Oradia of Category for Chronic equation toxicly • Oradia of Category for Chronic equation toxicly
	GHS label elements	Pictorial display
	Signal word	Danger
	Hazards information	Highly flammable liquid and vapor Hardhill fi svalloved Karlo be harmful fi rhahed Causes oge initiation initiation Causes oge initiation initiation May de harmful for harded Market of the harden of the final first order of the final first order of the harden of the final first order of the harden of tharden of tharden of the harden of the harden of



		GT-7 II Thinner Canos Chemicals la File No. 14-040-02 Jame 20, 2014 Revision No. 02 J
First-aid measures	IF INHALED	Inhalation of highly-concentrated solvent gas may cause headache an nausea.Remove viciim to fresh air and keep at rest in a position comfortable fe breathing. Call a doctor/physician if you feel unwell.
	IF ON SKIN	If the product affarers to the skin and is left as is, itchiness and eczema may occur. the product comes in contact with the skin, wash with plenty of water and stop. you develop skin irritation or rashes, receive diagnosis/treatment from doctor/physican.
	IF IN EYES	Severe pain or inflammation of the mucous membrane of the eye will occur. Rins caucially with water. Remove contact lenses, if present and easy to do.Continue rinsing.If eye irritation continues, receive a diagnosis/treatment from doctor/physician.
	IF SWALLOWED	Do not induce vomiting, and immediately contact a doctor/physician.
	Protection of person administering first-aid treatment	Rescuers must wear protective gear.
	Special precautions for doctors/physicians	Present the MSDS or precautions regarding the container to the doctor/physician.
Fire-fighting measures	Extinguishing media	Powder, carbon dioxide gas, halides, and foam extinguishers.
	Extinguishing media that must not be used	Water
	Typical hazards during fires	Strongly volatile and flammable.
	Typical extinguishing method	Stop aiming the extinguishing media at the source of the fire, and carry out fin extinguishing activities from the upwind side.
	Protection for person carrying out extinguishing activities	Wear appropriate protective gear (heat-resistant clothing, self-contained breathin apparatus, etc.).
	Precautions, protective gear and emergency measures related to the human body	Ventilate the area immediately, prohibit use of fire, and wear appropriate protective gear (gloves, protective mask, protective goggles, protective footwear, wor uniform, etc.).
Accidental release measures	Precautions for the environment	Take measures to prevent discharge to drainage channels.
release measures	Method/equipment for scaling and cleaning	For small amounts, wipe with a rag or other incombustible material, etc., and was using wash oil, etc. Process extraneous matter and waste based on relevan regulations. For large amounts, prevent further release by using soil embankment etc., and handle after guiding to a safe location.
	Measures to prevent secondary disasters	Inersectionally remove any items from the norrounding areas that may cause ignition and prepare extinguishing media. Use safe equipment that does not generate static electricity or sparks.

				01740	hinner Canon Chemicals File No. 14-0460-0 0, 2014 Revision No. 02
		Technical measures			
Handling and	Handling	· Handle in an area			
storage		Prohibit the use of			sed as much as possib
		so that there are no			seu as much as possio
		Close containers ti			
		· Wear appropriate ;	protective gear (j	doves, protective m	ask, protective eyewe
				etc.) when handling	
				electricity, use antis on-proof electrical o	tatic work uniforms a quipment.
		Local ventilation / C	Overall ventilation	n	
		When handling, ha facilities,	andle in a location	with local ventilati	ion or overall ventilati
		Precautions			
					car as necessary so th
		you do not swallow with the eyes or sk		so that the product of	does not come in conta
		· After handling the	product, wash y		2. thoroughly, and mainto resting areas, etc.
		Precautions for safe	handling		
		· Avoid flames, spar			
		Equipment must b must be carried out		-proof construction,	and antistatic measur
	Storage	and Health Act, etc.	2		ue Act, Industrial Safe
		with ventilation eq			
		Appropriate storage	conditions		
		Close containers thumidity.	tightly, and avoi	d leaks, high temp	eratures, fire and hip
		numuaky.			
		Safe container and p · Store in the contain			
Exposure control	Measures for facilities	Install local ventilati Set up a wash room product is to be hand	n and eye was		
	Control concentration / Allowable concentration	Substance name	Control concentration	Allowable concentration (2008) Japan Society for Occupational Health	Allowable concentration (2008) ACGEN
		Toluene	20ppm	S0ppm 188mg/m ³	TWA 20ppm, 75mg/m ¹
		Propylens glycolmonomethyl ether	Not set	Not set	TWA 100pm STEL
		Propylene glycol-1-monomethyl	Not set	Not set	Not set
	Allowable concentration	Toluene Pospylese glycolmozomethyl ether Procedene	20ppm Not set	Japan Society for Occupational Health Sflopm 188mg/m ³ Not set	ACGBI TWA 20ppm, 75mg/m ¹ TWA 100pm STEL 150ppm

	1	File No. 14-0469-0227 June 20, 2014 Revision No. 02 5/7
Exposure control	Protective gear	Protective gear for the respiratory system
0		Wear a gas mask for organic gas.
		Check to make sure that a canister that is appropriate for the applicable gas is
		attached.
		Protective gear for the hands
		Wear gloves made of materials that do not allow for the permeation of organic solvents and chemical agents.
		Protective gear for the eyes
		Wear protective goggles.
		Protective gear for the skin and body
		Wear an apron, etc. made of a material that does not allow for the permeation of
		chemical agents. Wear long-sleeved clothing and safety shoes that do not directly
		exprese the skin.
	Appropriate sanitary measures	Replace absorbent material such as masks regularly or after each use.
25 25 25		
Physical and	Appearance	Colorless and transparent
chemical properties	Odor pH	Benzene odor No data
properties	Melting point/Freezing point	No data
	Boiling point/Initial boiling	No data
	point/Boiling range	
	Flash point	13.1°C (Tag closed-cup method)
	Spontaneous ignition point	No data
	Combustion/explosion range	No data
	Vapor pressure	No deta
	Vapor density	No data
	Specific gravity	0.918/cm ³
	Solubility	Soluble in organic solvent
		Insoluble in water
	Octanol-water partition coefficient Decomposition temperature	No data No data
Stability and reactivity	Safety Possibility of hazardous reaction	Stable at ordinary temperatures and ordinary pressures. No data
reactivity	Conditions to avoid	No data High temperatures
	Mixed hazardous substance	Material that is soluble in solvent
	Hazardous resolved component	No data
	Other	Vapor flowed to low areas

		GT:711 Thinter Caron Chemidal E File No. 14.0469-00 June 20, 2014 Revision No. 021
Toxicological information	Acute toxicity	Tolucne Impact on the human body: No data Animal studies, etc.: LD ₂₆ (oral): 636 mg/kg (rats) LC ₂₆ (inhaled): 4900 mg/m ² /44 (rats)
	Skin corrosion/irritation	Toluene Irritates the skin.
	Severe eye damage/irritation	Toluene/ Propylene glycolmonomethyl ether Irritates the eyes.
	Respiratory sensitization/skin sensitization	Toluene Irritates the air passage.
	Carcinogenecity	Toluene IARC: 3
	Reproductive toxicity	Toluene May damage fertility or the unborn child.
	Specific target organ toxicity, single exposure	Toluene May affect the central nerves, In high concentrations, may cause abnormal cardiac rhythm and lapse o consciousness.Has the possibility of causing chemical pneuronia.
		Propylene glycolmonomethyl ether May cause drowsiness or dizziness.
	Specific target organ toxicity,repeated exposure	Toluene Causes defattening of the skin.
	Aspiration hazard	Toluene May be fatal if swallowed and enters airways.
Ecological information	Ecological toxicity	Toxic to aquatic life
	Persistence/degradability	Toluene, Propylene glycolmonomethyl ether: Good degradability based on microorganisms, etc.
	Mobility to soil	Based on its physicochemical properties, this product has the possibility o transferring to the atmosphere, water areas, and soil environment.
Disposal considerations	processor. Do not let fluid user channels. Process waste gener Public Cleansing Act and rela	datal product, containers, etc., by consigning disposal to a licensed industrial want for deaming containers and explorem flow directly ento the ground or isto dramage and by wareview terromism, industrentia, cuto by following the Washi Disposal ann sell ergadations, or consign to a watte disposal service. If processing watte products ob the waste into diatoraceous earth, and licenseate in small amounts using a

	June 20, 2014 Revision No. 02 77.					
Transport	UN Category: 3 (flammable liquid)					
information	UN Number: 1263					
	Name: Paint related material					
	Packing Group: 2					
	Check to make sure that the containers are not damaged and that there are no leaks. Prevent collapse of cargo by loading and unloading containers so that they are not joilted, do not tip over, fall, or become damaged. In addition, be					
	careful of cargo shifting during transport. Follow the Fire Service Act and the transportation methods specified in					
	applicable regulations such as the Fire Service Act, Industrial Safety and Health Act, etc.					
Regulatory	Fire Service Act: Hazardous Material Group 4, First Petroleum Group, Insoluble Liquid Danger Class II					
information						
	Industrial Safety and Health Act:					
	Standards for Working Environments Article 65-2 (1) (Toluene) Second alors Operating Schwart or prescribed in the Optimizer on Discussion of Operating Schwart					
	 Second-class Organic Solvent as prescribed in the Ordinance on Prevention of Organic Solvent Poisoning (Toluene) 					
	·Hazardous material (flammable object); Order for Enforcement, Appended Table 1 (4)					
	·Substance subject to labeling; Article 57 (1) Order for Enforcement Article 18 (Toluene)					
	 Substance subject to notification; Article 57-2 Order for Enforcement Article 18-2 Appended Table 9 					
	(Toluene [Government Ordinance No. 407], Propylene glycolmonomethyl ether [Government Ordinance					
	No. 496])					
	Law for PRTR and Promotion of Chemical Management:					
	Class I Specified Chemical Substance; Article 2 (2), Order for Enforcement Article 1 Appended Table					
	1(Toluene [Government Ordinance No. 300 35%])					
	Ship Safety Act: Flammable liquid (medium flash point)					
	Waste Management and Public Cleansing Act					
Other	Reference literature					
information	GHS Implementation Guidelines, Japan Chemical Industry Association					
	 Kagaku Daijiten (Dictionary of Chemistry), Kyoritsu Shuppan Co., Ltd. 					
	 Shobo Kankei Hoki-shu (Collection of Laws Related to Fire Service), Gendai Shobosha 					
	 Regulations for the Carriage and Storage of Dangerous Goods in Ships, Kaibundo 					
This "Material	Safety Data Sheet" has been created based on the materials, information, and data that could be obtained					
	int in time, and may be revised due to revisions of laws and new findings.					
	his product, refer to the contents described on this MSDS, and take safety measures that are appropriate					
	ditions based on the responsibility of the user.					
	not a guarantee or standard for safety and quality.					
	afety Data Sheet" is created based on Japanese laws. When exporting the product to foreign products, he product will be regulated based on the laws of the respective country.					
Revision History						
April24, 2013 R	zvision No. 00 June04, 2014 Revision No. 01 June20, 2014 Revision No. 01					

ECTION 1 CHEMICAL PRODUCT		afety Data Sheet ID : 01E00013749
MANUFACTURER'S NAME NAME OF SECTION	: ORIGIN ELEC	IRIC CO., LID. JRANCE SECTION
ADDRESS		oka, Mizuho-machi, Nishitama-qun, Tokyo 190-1232 JPN
TELEPHONE NUMBER	: 042-557-411	
FAX NUHBER	: 042-557-755	
EMERGENCY PHONE NUMBER	: 042-557-411	1
DATE PREPARED	: 2012/04/17	
IDENTITY(As Used On Lab EXPLANATION :	el) : LENS YOU B	THINNER
TYPE	: THI NNER	
MAIN USE	FOR GLASS	
ECTION 2 HAZARDS IDENTIF	ICATION	
GHS CLASSIFICATION		2
HAZARD CLASS	CLASSIFICATION	HAZARD STATEMENT
FLAMMABLE LIQUID	Category 2	Highly flammable liquid and vapour
FLAMMABLE SOLID	NOT APPLICABLE	
SELF-REACTIVE SUBSTANCE AND MIXTURE	NOT APPLICABLE	
ORGANIC PEROXIDE	NOT APPLICABLE	
CORROSIVE TO METALS	NOT APPLICABLE	
ACUTE TOXICITY ORAL	Category 5	May be harmful if swallowed
ACUTE TOXICITY DERMAL	NOT CLASSIFIED	
ACUTE TOXICITY INHALATION	Category 4	Harmful if inhaled
SKIN CORROSION/IRRITATION	NOT CLASSIFIED	
SERIOUS EYE DAMAGE /EYE IRRITATION	Category 2A	Causes serious eye irritation
RESPIRATORY SENSITIZATION	NOT APPLICABLE	
SKIN SENSITIZATION	NOT APPLICABLE	
GERM CELL MUTAGENICITY	NOT CLASSIFIED	
CARCINOGENICITY	NOT CLASSIFIED	
REPRODUCTIVE TOXICITY	Category 1A	May damage fertility or the unborn child
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)	Category 1	Cause damage to organs
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)	Category 1	Cause damage to organs through prolonged or repeated exposure
ASPIRATION HAZARD	Category 1	May be fatal if swallowed and enter airways
ACUTE HAZARDOUS TO THE AQUATIC ENVIRONMENT	Category 2	Toxic to aquatic life
CHRONIC HAZARDOUS TO THE AQUATIC ENVIRONMENT	NOT CLASSIFIED	
SYMBOL:	\$	1/8

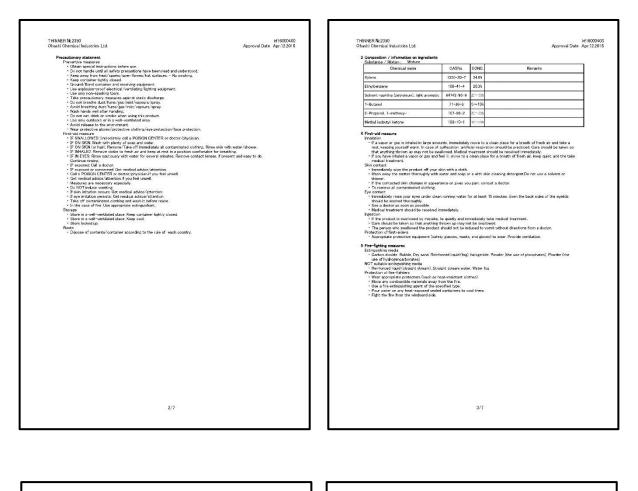
		PRO	DUCT CODE : 567060	0001
ON 3 COMPOSITION/INFORMATION ON I Chemical Name	CAS Number	» by weight	PRTR	
toluene	108-88-3	65. 0	1	
methyl isobutyl ketone	108-10-1	1~5		
2-ethoxyethanol	110-80-5	20.0	Т	
diacetoneal cohol	123-42-2	5~10		
\diamondsuit 0ther Limits Recommended				
	2/8			
	270			

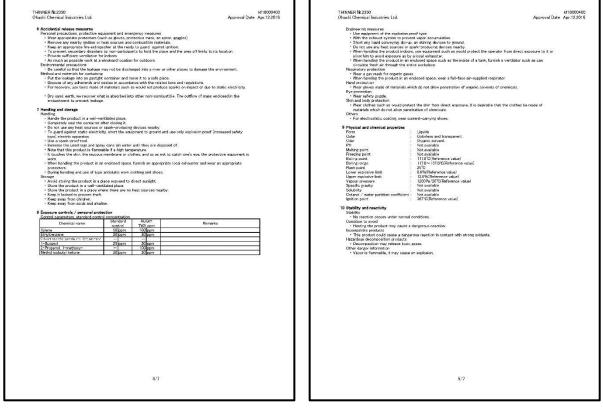
PRODUCT CODE : 5670600001	PRODUCT CODE : 5670600001
ECTION 4 FIRST-AID MEASURES	SECTION 6 ACCIDENTAL RELEASE MEASURES
	Use protective clothing during operations (such as gloves, protective mask, apron and goggles). Return spilled material to a sealable container and move to a safe (coation. Collect by absorbing into dry sand, soil or other non-flammable material. In the case of a larg spill, contain spill with bunding material and prevent leakage. Quickly rerove ignition sources, high temperature tiens and flammable material from the vicinity Prepare appropriate extinguishers in case of ignition. Collect by using cools rade of fractials that will not generate spark through impact or static electricity. Dispose of contaminated and waste material in accordance with relevant regulations. Take care to prevent environmental inmact through dischare to trivers and lakes.
♦SKIN CONTACT Renove promptly with a cloth. Wash off thoroughly with copious amounts of water and soap, or dernatological detergent. Do not remove with organic chemicals such as solvents or thi Consult a doctor if there is a change in appearance or if there is pain.	
	SECTION 7 HANDLING & STORAGE
○INHALATION If large anounts of vapor or gas or the like has been inhaled, then promptly move to a place with lots of fresh air, and keep warm and calm. Give artificial respiration if breathing is labored or stopped. Do not allow patient to swallow vonitus. Seek medical attention promptly. If feeling nauceous because of inhalation of fist or gas, then keep calm in a place with lots of fresh air and seek medical attention.	CHANNELING Handle in well ventilated location.Reseal container after each use. Prohibit use of flares, sparks and hot material in the vicinity. Earth all equipment, and use explosion proof-type (Safety enhanced) electric devices in order to reduce the risk of static electricity.Use spark proof-type tools. Use anti-static-type work clothes and shoes while working. Soak waste, paint solids, spray dust etc. in water until dispoal. Them working in an enclosed space, carry out work after providing sufficient ventilating equipme and use appropriate protection. Beer appropriate protective devices such that the paint does not contact skin, membranes or clothing, or enter one's eyes. Thash hands and face well after handling, and do not bring contaninated clothing such as gloves into rest areas or the like.
◇INGESTION Swallowed: Keep calm and seek medical attention if swallowed. Do not allow patient to swallow vonitus. Do not induce vomiting unless instructed to do so by a doctor.	♦5T08AGE Keep away from direct sum. Keep away from ignition and heat sources.
CTION S FIRE-FIGHTING WEASURES	SECTION & EXPOSURE CONTROL/PERSONAL PROTECTION
>EXTINGUISHING WEDIA Water [] CO2 Gas [Y] Foam [Y] Powder [Y]	♦ CONTROL PARAMETERS
Dry Sand [Y] Others []	Use explosion proof-type equipment for handling. Install ventilating equipment to ensure no vapor entrapment
SPECIFIC HAZARDS WITH REGRD TO FIRE-FIGHTING MEASURES	Provide earth on equipment to ensure no vapor entrapment Provide earth on equipment for liquid transport, ladling and mixing.
Do Not use water. Use appropriate protective clothing (such as heat resistant clothing).	Do not allow hot items or ignition sources in the vicinity of the handling area.
Quickly remove flanmable material from the vicinity.	When painting inside, either use equipment such as an automatic spray- painting machine so that the operator is not directly exposed, or provide equipment such as local ventilation equipment
Use designated extinguishing media Cool sealed containers exposed to high temperatures with water	so that the operator can avoid exposure. When working in sealed spaces such as tanks, provide equipment such that ventilation in the seal
Fight fire from upwind side.	nnen working in sealed spaces such as tamks, provide equipment such that ventilation in the seal space is adequate, particularly near the base.
3/8	4/8

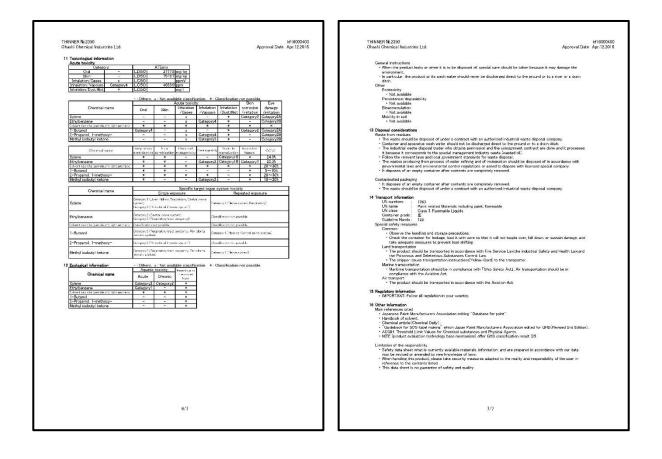
			PRODUCT	CODE : 5670600001	PRODUCT CODE : 5670600001
Chemical Name	THRESHOLD LINIT Value	ACGIH TLV	IARC	Other Limits Recommended	SECTION 9 PHYSICAL & CHENICAL PROPERTIES
toluene	20ppm	50. 000ppm	3	4800mg/kg(rat)	♦ COLOR : colorless
nethyl isobutyl ketone	20ppm	50.000ppm		2919mg/kg(rat)	◇ODOUR : Solvent smell ◇DENSITY : 0.88
2-ethoxyethanol	Sppm	5.000ppm		3017mg/kg(rat)	
diacetonealcohol		50. 000ppm		4000mg/kg(rat)	◇VAPOUR PRESSURE : 4000.0000 Pa(26.0°C)
		50, 00 oppn		Hooding, kg (Tak)	◇Ph : N/A◇SOLUBILITY IN WATER : negligible
					⇔other
					None.
					⇒FLASH POINT : 8.0 °C
					◇AUTOIGNITION TEMPERATURE : 235.0 ℃
					◇UPPER AND LOWER EXPLOSION LIMIT : 1.200 %(g/m3) 15.600 %(g/m3)
					SECTION 10 PHYSICAL HAZARD(STABILITY & REACTIVITY)
					STABILITY & REACTIVITY None.
					IWIIC.
					Risk of generating of toxic gases, such as CO and NOx.
					inish of generating of toxic gases, such as to and nox.
					Standard
					SECTION 11 TOXICOLOGICAL INFORMATION
					♦TOXICOLOGICAL INFORMATION
OPERSONAL PROTECTIVE EQUIP	NENT				Tests not performed for safety as a product.
EYE PROTECTION Wear safety goggles dur	ing handling				OACUTE TOXICITY
neur eurory goggree au					ORAL toluene (Category5) / diacetoneal cohol (Category5) /2-ethoxyethanol (Category5) /nethyl isobutyl keton
					egory5)
♦HAND, SKIN AND BODY PROT Wear gloves that will n		nic solvents or	cheni cal	5.	◆DERMAL 2-ethoxyethanol (CategoryS) /methyl isobutyl ketone(CategoryS)
◆RESPIRATORY PROTECTION					♦ INHALATION
Wear gas mask that prot Wear a respirator when		ies.			
OTHER PROTECTION					SKIN CORROSION/IRRITATION
Wear electrically conduc	ctive boots during elect	rostatic paintin	ng.		toluene(Category2)/diacetonealcohol(Category2)/2-ethoxyethanol(Category3)
	5/8				6/8

PRODUCT CODE : 5670600001	PRODUCT CODE : 5670600001
<pre>OSERIOUS EYE DAMAGE/EYE IRRITATION toluene(Category2A)/diacetonealcohol(Category2A)/2-ethoxyethanol(Category2A)/nethyl isobutyl ketone(NOT CLASSIFIED)</pre>	
⊘RESPIRATORY SENSITIZATION	♦CHRONIC HAZARDOUS TO THE AQUATIC ENVIRONMENT
♦SKIN SENSITIZATION	тоялсяту :
⊘gerni cell inutageni¢ity	PERSISTENCE AND DEGRADABILITY : BIOACCUMULATION POTENTIAL : ANTARTINON IN SOIL :
	SECTION 13 DISPOSAL CONSIDERATION
	For waste paint and containers, dispose of through contract with a registered industrial waste
<pre>OREPRODUCTIVE TOXICITY toluene(Category1A)/diacetonealcohol(Category2)/2-ethoxyethanol(Category1B)</pre>	disposal operator. Nater, such as waste water, generated by washing containers and equipment and the like is not to be disposed on the ground or into water drainage gutters without treatment. Waste material generated by water treatment and incineration, for example, should be processed in accordance with laws and regulation relating to the disposal and cleaning of waste material, or should be entrusted to a third party. If disposing waste paint by incineration, makerdo moto
OSPECIFIC TARGET ORGAN SYSTENIC TOXICITY - SINGLE EXPOSURE toluene(CLASSI:Central Nervous System)/diacetonealcohol(CLASSI:respiratory system,CLASS2:Liver)/2-et hoxyethanol(CLASSI:Central Nervous System/kidney/Liver/testis)	diatomaceous earth and incinerate in small amounts in an open-type incinerator.
	SECTION 14 TRANSPORT INFORMATION
OSPECIFIC TARGET DRGAN SYSTEMIC TOXICITY - REPARTED EXPOSURE toluene(CLASSI:Central Nervous System/kidney/Liver//diacetonealcohol(CLASSI:kidney)/2-ethoxyethanol(CLASSI:testis/hematopolesis system)/methyl isobutyl ketone(CLASSI:systemic toxicity)	Transport in accordance with precautions noted for handling and storage. Ensure container does not leak, and load such that the container cannot tip, fall, or break. Ensure that the load will not collapse. Follow all regulations in your country. ◇ UN LASS 3 ◇ PACKING GROUP :
CASPIRATION HAZARD	
toluene(Category1)/methyl isobutyl ketone(Category2)	SECTION 15 REGULATORY INFORMATION
	Follow all regulations in your country.
OTHER toluene(3(Respiratory irritation), Category 3 (Narcotic effects))/methyl isobutyl ketone(3(Respirator v irritation), Category 3 (Narcotic effects))	
y fritation), category 5 (Marcotic effects))	SECTION 16 OTHER INFORMATION
	♦ REFERENCES "Raw Material Database", edited by the Japan Paint Wanufacturer's The Solvent Handbook Hazard and Disaster Prevention Energency Handbook
SECTION 12 ECOLOGICAL INFORMATION	Chemical Risk Information Platform (CHRIP) of National Institute of Technology and Evaluation (NITE) Japan Other suppliers' SDS
Take precautions to minimize effect on environment during spills and disposal. Particularly ensure	an automatical lan
that the product and wash water is not directly discharged to the ground, rivers or to water drainage gutters.	♦ ATTENTION The content of this NSDS has been prepared based on guidance for NSDS content provided by the Japan Paint Nanufacturer's Association, however, the hazard and toxicity evaluations may not necessarily be sufficient, so please take anple care when handling.
7/8	8/8

THINNER Na2350 Ohashi Chemical Industries Ltd.	Approval Data April 2016	THINNER No.2300 Ohashi Ohamical Industries Ltd.	Approval Date Apr.12.2016
Product explanation Rind Manufacturer Usa Address Control Control Editors Research Talaford and School Control Talaford Address Control Emergency Melhone sumber + 481-4 2 Hazards Medhillitation	Safety Data Sheet	Broket and segment setting 1 Product and segments Product and segments Market segments <td></td>	
GHS label element Symbol or pictorram	Signal word Danger	Gris basement Symbol or pictarem	
Of G searfication Final Jacobs Handback Han	Description 9 Remains liquid and upcase 9 Remains liquid	Old Gashfaction Description Congrey Name a statement of the statemen	anij draminese or dizinese r repeated exposure d or repeated exposure
	1/2	. 1/7	4







	ZrO2 Reference No. 0400 Issued Revision date : May 28. 2019 SAFETY DATA SHEET		ZrO Reference No. 0400 Issued-Revision date : May 28, 201
TEL: +81-774-41-8856 FAX: +8 Emergency contact information : K TEL: +81-774-48-7567 FAX: +8 Person in charge : Katsuji Sunagaw E-mail Address : katsuji sunagaw	UFACTURER IDENTIFICATION ad ad bit devices and additional additional additional additional 17724-380201 17724-380201 17724-497-3722 we we w	ENVIRONMENTAL HAZARDS Acute aquatic environme bazards Chronis aquatic environme balante LABEL.ELAMENTS Pictogram or Symbol	
contact with water, Emit Flammable Gases Oxidizing Liquids Oxidizing Solids	Not applicable Unclusificable Unclusificable Not classified Solid (dirth) of CHS) Unclusificable Not classified	Signal Mord Prolonged Hazard Information Caution : a. COMPOSITION / INFORMAT Name of chemical(Product) : Forms 2002 CAS No. No. 131-82-94 Punty : Silcon dioxide 98, 91	Zirconium oxide
Organic Petrodes Corroske to Metals HEALTH HAZAROS Acate toxichy (derma) Acate toxichy (derma) Acate toxichy (derma) Acate toxichy (inhalation : vapors) Acate toxichy (inhalation : duits and miss) Sen corrector / transon Bein corrector / transon Respiratory Carrongenichy Carrongenichy Specific larget organ toxichy (Repeated exposure) Aspiration hazard	Unclassificable Unclassificable Category 1 Unclassificable Category 1 Unclassificable Unclassificable	4. FiRST-AID MEASURES Inhalation : Sin contact : Eye contact : Ingestion : Prospective symptom : 5. FIRE-FIGHTING MEASURES Extinguishing media : Fire fighting : e. ACCIDENTAL RELEASE ME	This product cannot catch fire. Use media appropriate for surrounding fire. Self-contained breathing apparatus and full protective clothing should used, if the material is involved in fire.

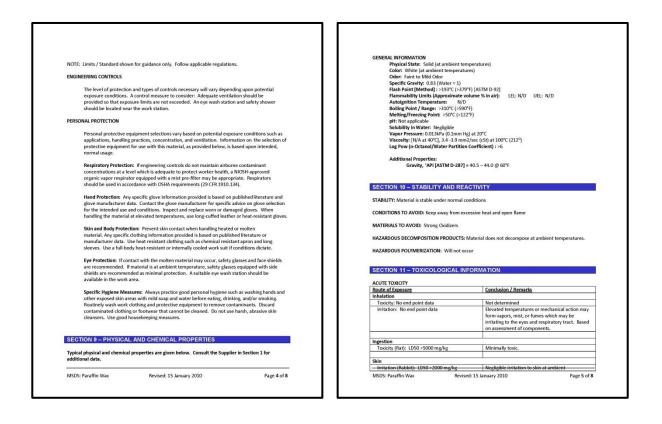
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	3/5		4/5
	ZrO2 Reference No. 04003		ZrG Reference No. 0400
	issued Revision date : May 28, 2019		Issued-Revision date : May 28, 20
Personal precautions	Keep away person in proper distance and insulate the place immediately.	Solubility : Partition coefficient : n-octanol	Insoluble /water : No data available
Protective equipment and	immediately.	Auto-ignition temperature :	/water : No data available No data available
emargancy procedures :	Make it restricted area except persons concern.	Decomposition temperature :	No data available
	When not wearing proper protective equipment, do not touch any broken container or leak source	Odor threshold :	No data available
	Wear proper protective equipment which is written in "8.EXPOSURE CONTROLS / PERSONAL PROTECTION".	10. STABILITY AND REACTIVIT	
	Avoid inhaling the dust and mist and contacting to eye and skin.	10. STABILITY AND REACTIVIT	IY
Environmental precautions :	Be aware not to be leaken to the river.	Stability :	Stable in closed container.
Recovery :	Put leakage in a dry container.	Reactivity	
Methods and materials for containment and cleaning up :	If it is not dangerous, stop the leakage, and prevent making the dust.	Incompatibility : Condition to avoid :	No data available No data available
7. HANDLING AND STORAGE	In it is not dangerides, stop the nonege, and procent making the other.	Hazardous decomposition pro	
Precautions for safe handling	Do the measure of facility and wear protective equipment which are	11. TOXICOLOGICAL INFORM	ATION
Countermeasure :	Do the measure of facility and wear protective equipment which are written in "8. EXPOSURE CONTROLS / PERSONAL PROTECTION".	Acute toxicity	GHS : No data available
Precautions :	When using this product, no drinking and eating and smoking.	Skin corrosion / irritation	GHS ; No data available
	Wash your hands enough after using this product.	Serious eye damage / irritation	
	Be aware not to make the clust. Be aware the contact to the eve and inhaling or swallowing.	Respiratory or skin sensitization Germ cell mutagenicity	n Category 1 GHS : No data available
Condition for safe storage.	Be aware the contact to the eye and innaling or swallowing.	Carcinogenicity	GHS ; No data available GHS ; No data available
Countermeasure :	Storage area must have proper facilities of light and exhaust system to	Reproductive toxicity	GHS ; No data available
	handle hazardous substance.	STOT-single exposure	GHS ; No data available
Incompatibilities .	Refer to "10.STABLITY AND REACTIVITY".	STOT-repeated exposure Aspiration hazard	GHS ; No data available GHS : No data available
8 EXPOSURE CONTROLS / PE	ERSONAL PROTECTION	12. ECOLOGICAL INFORMATIO	N
ACGIH2013 TWA	5mg/m ⁸ (as Zr)		
Measures of facilities :	To keep acceptable concentration below, seal the procedure, or, make local ventilation, or use proper facilities.		tic environment : GHS ; No data available uatic environment : GHS ; No data available
Protective equipment Respiratory :	Use dust protective musk. Depending on the situation, use air-supplied	13. DISPOSAL CONSIDERATIO	NUE
respiratory.	musk	13. DISPOSAL CONSIDERATIO	5N3
Hand :	Use protective gloves.	Waste from residues :.	Observe all applicable Federal, State and Local regulations, rule
Eye	Use protective equipment for eye and face or use both protective		when disposing.
	equipment which is for eye and respiratory. Wear protective cloth and boot.		When asking the disposal to licensed professional waste dispos service hazardous must be explained to the waste disposal service
Rivio and bady :	wear projective courrante occa.		advance.
Skin and body :		Contaminated container	
Skin and body : 9. PHYSICAL AND CHEMICAL	PROPERTIES	and packing :	Container must be cleaned or recycled.
9. PHYSICAL AND CHEMICAL			Observe all applicable Federal, State and Local regulations, rule when disposing.
9. PHYSICAL AND CHEMICAL Appearance :	Salid		When disposing only the container, remove the contamination
9. PHYSICAL AND CHEMICAL			perfectly.
9. PHYSICAL AND CHEMICAL Appearance : Color : Odor : PH :	Scild White Octotes No date available		penecity.
9. PHYSICAL AND CHEMICAL Appearance : Color : Odor : PH : Melling point / freezing point :	Selid White Occidees No data available 2277'0		
9. PHYSICAL AND CHEMICAL Appearance : Color : Odor : PH : Metting point / freezing point : Initial bailing point and boiling r	Solid White Coortina wallsble No data available 20770 age: 4300°C	14 TRASPORT INFORMATION	
9. PHYSICAL AND CHEMICAL Appearance : Color : Odor : PH : Melling point / freezing point :	Solid White Occidees No data available 2277'0	14 TRASPORT INFORMATION By vessel	
9. PHYSICAL AND CHEMICAL Appearance : Color : Odor : PH : Molting point / freezing point : Initial boiling point and boiling r Flash point : Vasor freesure : Vasor freesure : Vasor freesure :	Solid White Coolese No data available 20770 Alada variable No data available No data available No data available		- MC220240
9. PHYSICAL AND CHEMICAL Appearance : Color : Odor : PH : Molting point / freezing point : Initial boiling point and boiling r Flash point : Vacor pressure :	Solid What Coortines No data available age 400°C No data available No data available No data available	By vessel	This product is not considered hazardous for transportation
9. PHYSICAL AND CHEMICAL Appearance : Color : Odor : PH : Molting point / freezing point : Initial boiling point and boiling r Flash point : Vasor freesure : Vasor freesure : Vasor freesure :	Solid White Coolese No data available 20770 Alada variable No data available No data available No data available	By vessel	This product is not considered hazardous for transportation
9. PHYSICAL AND CHEMICAL Appearance : Color : Odor : PH : Molting point / freezing point : Initial boiling point and boiling r Flash point : Vasor freesure : Vasor freesure : Vasor freesure :	Solid White Coolese No data available 20770 Alada variable No data available No data available No data available	By vessel	This product is not considered hazardous for transportation
9. PHYSICAL AND CHEMICAL Appearance : Color : Odor : PH : Molting point / freezing point : Initial boiling point and boiling r Flash point : Vasor freesure : Vasor freesure : Vasor freesure :	Solid White Coolese No data available 20770 Alada variable No data available No data available No data available	By vessel	This product is not considered hazardous for transportation
9. PHYSICAL AND CHEMICAL Appearance : Color : Odor : PH : Molting point / freezing point : Inital boiling point and boiling r Flash point : Vapor density (Xi=1) : Vapor density (Xi=1) :	Solid White Coolese No data available 20770 Alada variable No data available No data available No data available	By vessel	This product is not considered hazardous for transportation

		Fujian Acetron New Materials Co.		DocNo.: ACE-M1-MS-0
	5/5 Zr02	MAT	ERIAL SAFETY DATA SHEET OF Zirconium Titanium Oxide	Vision: 01 Issue date: 2018-01-27
	Reference No. 04003 Issued-Revision date : May 28, 2019		ON OF THE MATERIAL AND MANUFACTURER	
Others notice	When transporting, load the container with avoiding direct sunlight, and	Identification of the Material	anium Oxide (product form: granules, flake, target)	
00101010000	avoiding container's damage and corrosion. Also fix the container not		, PVD (Physical Vapor Deposition) coating	
	to fall. Handle careful not to get wet.	Manufacturer Info	in to (infracti topol o opolition) counting	
2 <u></u>		Manufacturer Fujian Acetron		
15 REGULATORY INFORM	MATION		gli Qinjiang Village Hangcheng Town Changle Fuzhou 350.	200 China
TSCA inventory : listed. Ensure this material in co	empliance with local regulations.	Tel: +86 (0) 591		
		Fax: +86 (0) 591 E-mail: sales@acetro		
16. OTHER INFORMATION	4		ID CHEMICAL PROPERTIES	
Cited literature		Single product / mixture:	Mixture	
National Institute of Techr (http://www.nite.go.jp/inde	nology and Evaluation(NITE) / Internet web-site	Substance Name:	MU5(ZrO2+Ti02)	
(http://www.nite.do.jp/ind	CATE AND A	Molecular Formula:	ZrO2+Ti02	
		Chemical properties:	Metallic oxide	
	believed to be accurate and represents the best information currently available	Ratio of Constituents:	90%ZrO2+10%TiO2	
	no warranty of merchantability or any other warranty, express or implied, with , and we assume no liability resulting from its use. Users should make their own	CAS NO. 1	1314-23-4 13463-67-7	
investigations to determine	the suitability of the information for their particular purpose. In no event shall the	EINECS :	215-227-2 236-675-5	
	claims, losses, or damage of any third party or for lost profits or any special, nplary damages however arising, even if the company has been advised of the	SECTION 3.HAZARD IDEN	ITIFICATION	
possibility of such damages		Danger:	Not available.	
		Recommended exposure limit:		
		A damage:	Not available.	
		Environmental impact: Potential health effects	Not available.	
		Suck:	Acute health hazards: May cause respiratory tract initati	ion
		Ingestion	Not available.	
		Skin contact i	Not available	
		Eye contact:	Dust may cause redness, itching and burning sensation	after contact.
		Target Organs (Internal)	Not available.	
		SECTION 4.Emergency me	easure	
		Inhalation:	Not available.	
		Ingestion:	Not available.	
		Skin contact 3	Use soap water to rinse it out.	
		Eye contact:	Immediately flush eyes with warm running water for at le If symptoms persist, seek medical attention.	east 15 minutes.
		SECTION 5. FIRE FIGHTIN		
		Flash Points	Not available	
		The explosion limits	Not available.	
		Fire prevention measures:	Not available.	annau (lag) lange da
		Fire extinguishing agenta	This product is non-flamm able in case of fire, use water chemical or CO2.	spray (10g), toam, dry
		Fire extinguishing method:	None	
		SECTION 6.Leakage contin		
		Emergency measures:	No specific procedures are required for this product.	
			1/2	

	54	Doc No.: ACE-M1-MS-003 Vision: 01	MATERIAL SAFETY DATA SHEET (M.S.D.S.)
SECTION 7.Access and sto		Issue date: 2018-01-27	
Access	Use special tool access, avoid direct contact with eyes.		Paraffin Wax
Safekeeping:	Store in a cool, dry place, closed containers.		Farainii wax
SECTION 8.Protective measure			
Mask:	Wearing protective masks.		SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION
Glasses	Wearing protective glasses.		Section 1- PRODUCT AND COMPANY IDENTIFICATION
Gloves	Rubber or vinyl gloves.		PRODUCT
Protective dothing:	Wearing dust-proof overalls.		
Respiratory protection:	No need.		Product Name: Paraffin Wax
Other protective equipment:	No need.		Product Description: Paraffin Wax
SECTION 9. PHYSICAL AND	1		Intended Use: Wax
Status	Solid of black brown.		
Melting Point (10):	1700°C		SECTION 2 – COMPOSITION / INFORMATION ON INCREDIENTS
Boiling Point (*C):	2300°C		
Specific Gravity (g/cm 3)	5.3g/cm 3		No reportable Hazardous substance(s) or Complex Substance(s). CAS No. 64742-51-4
MolecularVVeight (g-mol-1)	203.1 g mol-1		
Acoustic impedance coefficient:			SECTION 3 – HAZARDS IDENTIFICATION
Solubility	Insoluble in water, nitric acid and hydrochloric acid, soluble hot sodium hydroxide.	in hydrofluoric acid and	
Volatile:	Not available.		Emergency Overview: This material is solid at ambient temperature and exhibits softening (melting) characteristics at elevated temperatures. At elevated temperatures well above the softening point, the
SECTION 10. STABILITY AND			generation of hydrocarbon vapors may be expected.
Reactivity:	Not available.		Warajan, When bondling at algorithm temperature were protective algors and attempts to
Chemical Stability	Not available.		Warning: When handling at elevated temperature, wear protective gloves and other PPE to protect against thermal burns. Spills may create a slipping hazard.
Harzardous Reaction:	Not available.		against thermai burns, spills may create a slipping hazard.
Harzardous Decomposition:	Not available.		POTENTIAL PHYSICAL EFFECTS
SECTION11.Toxicological in	nt		
Acute toxicity.	Not available.	11	SKIN CONTACT – contact with molten material can result in severe burns.
Chronic toxicity	Not available.		
Other information:	Not available.		EYE CONTACT – Direct contact of molten product to the eyes will cause thermal burns and injury.
SECTION 12.Ecological info	ar		
Ecological toxicity.	Not available.		INHALATION - Breathing fumes in confined areas can cause respiratory discomfort and
Other information:	Not available.		possible irritation.
SECTION 13.Waste disposa			POTENTIAL HEALTH EFFECTS
Disposal measures:	According to local laws and regulations.		
SECTION 14. Transportation			Low order of toxicity. High-pressure injection into or under skin may cause a serious medical condition.
Land transport:	Non-supervision.		condition.
Ship transport:	Non-supervision.		NFPA Hazard ID: Health: 1 Flammability: 1 Reactivity: 0
Air transport:	Non-supervision.		NFPA Hazard ID: Health: <u>1</u> Flammability: <u>1</u> Reactivity: <u>0</u> HMIS Hazard ID: Health: 1 Flammability: 1 Reactivity: 0
SECTION 15. Laws and Reg	u		
Laws and regulations	According to local lave		NATE The set of the data to be added as the set of the set of the set of the behavior of the set of
SECTION 16. Other informai	ti		NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice.
Other information:	Not available.		
			SECTION 4 – FIRST AID PROCEDURES
Approval:	Check: Draft:		
	2/2		MSDS: Paraffin Wax Revised: 15 January 2012 Page 1 of 7

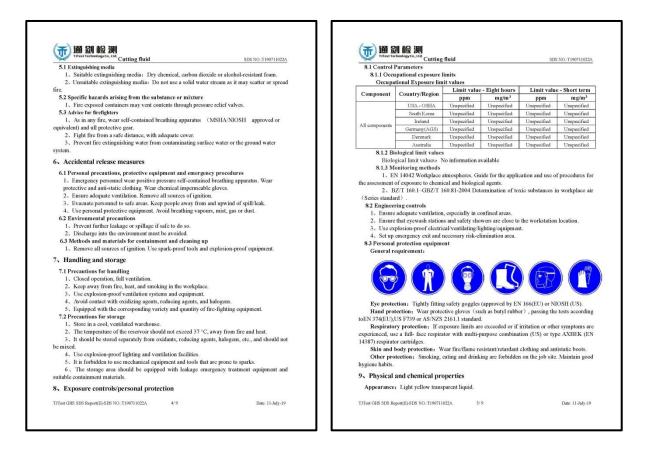
EVE CONTACT If initiation or redness develops from exposure to fumes, move victim away from exposure and into fresh air. Flush eyes with clean vater for at least 15 minutes. If irritation or redness persists, seek medical attention. For contact with moltem material, getty open eyelids and flush affected eye(s) with cold water. Seek immediate medical attention. INHALATION Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use appropriate registratry protection. If frequently irritation, for entities to be appropriate registratory protection. If frequently is stopped, assist ventilation with medical device or use mouth to mouth resuscitation.	SECTION 6 – ACCIDENTAL RELEASE MEASURES Take proper precautions to ensure your own health and safety before attempting spill control or clean-up. Notify relevant authorities in accordance with all applicable regulations. United States regulations require perofing releases of this material to the environment which exceed the applicable reportable quantity which could reach any waterway including intermittent dry creeks. For more specific information, refer to the Emergency Overview on Section 3, Eposoure Control and Personal
Into fresh air. Fulu heyes with clean vater for at least 15 minutes. If irritation or redness persists, seek medical attention. For contact with moltem naterial, getra yoen eyelids and flush affected eye(s) with cold water. Seek immediate medical attention. INHALATION Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use appropriate respiratory protection. If respiratory irritation, diziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist until about the medical device or use mouth to-mouth	Take proper precautions to ensure your own health and safety before attempting spill control or clean-up. Notify relevant authorities in accordance with all applicable regulations. United States regulations require reporting releases of this material to the environment which exceed the applicable reportable quantify which could reach any waterway including intermittent dry creeks. For more
INHALATION Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use appropriate respiratory protection. If respiratory irritation, dizinese, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist unbildian with medical device or use mouth-to-mouth	clean-up. Notify relevant authorities in accordance with all applicable regulations. United States regulations require reporting releases of this material to the environment which exceed the applicabl reportable quantity which could reach any waterway including intermittent dry creeks. For more
Remove from further exposure. For those providing axistizance, avoid exposure to yourself or others. Use appropriate respiratory protection. If regularizing virtuation, dizinese, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist unbildian with medical device or use mouth-to-mouth	regulations require reporting releases of this material to the environment which exceed the applicabl reportable quantity which could reach any waterway including intermittent dry creeks. For more
yourself or others. Use appropriate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with medical device or use mouth to-mouth	
breathing has stopped, assist ventilation with medical device or use mouth-to-mouth	
	Protection in Section 8, and Disposal Consideration in Section 13 of this MSDS.
	SPILL MANAGEMENT
SKIN CONTACT:	Land Spill: Contain spill and evacuate non-essential personnel. Allow spilled material to solidify
If burned by contact with molten material, hot material adhering to the skin should be cooled as	and scrape up with shovels into a suitable container for recycle or disposal. On hard surfaces, a
quickly as possible with water. Seek a physician for removal of adhering material and treatment of burn. If the material has been injected into or under the skin, or into any part of the body.	spill may create a slipping hazard. In an urban area, cleanup spill as soon as possible; in natural environments, seek cleanup advice from environmental specialists.
regardless of the appearance of the wound or size, the individual should be evaluated	Water Spill: Stop leak if you can without risk to injury. Confine the spill immediately with
immediately by a physician as a surgical emergency. Even though initial medical symptoms from injection may be minimal or absent, early treatment within the first few hours may significantly	booms. Skim material from the surface.
reduce the extent of injury.	ENVIRONMENTAL PRECAUTIONS
INGESTION	Equip cleanup crew with proper protective equipment and advise of pertinent hazards. For
The material is not acutely toxic by ingestion. First aid is not normally required. Seek medical attention if discomfort occurs.	large spills: dike far enough ahead of molten material for alter recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas. Comply with all laws and regulations.
SECTION 5 – FIRE FIGHTING MEASURES	166marchis
EXTINGUISHING MEDIA	SECTION 7 – HANDLING AND STORAGE
Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to	HANDLING
extinguish flames. Inappropriate Extinguishing Media: Straight streams of water.	Use normal precautions when handling hot, molten materials. Do not breathe fumes or vapor
	from molten material. Do not allow molten material to contact skin. The material can accumulate static charges which may cause an electrical spark (ignition source).
FIRE FIGHTING Fire Fighting Instructions: Evacuate the area. Prevent runoff from fire control or dilution from	
entering streams, sewers, or drinking supply. Firefighters should use standard protective	Store only in accordance with NFPA standards. This material can catch fire if over-heated. DO
equipment and in enclosed spaces, self—contained breathing apparatus. Use water to cool exposed surfaces to fire and to protect personnel. Molten material can form flaming droplets if	NOT heat this material above its flash point. Keep away from flames and open electrical coils.
ignited. Use of water on the material above 100°C (212°F) can cause the material to expand	Storage Temperature: < 80°C (176°F)
with explosive force.	
FLAMMABILITY PROPERTIES Flash Point [Method] >193°C (393°F) [ASTM D-92]	SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION
Flasm Point (Wethod) 2,139 C (393 F) [ASI M D 92] Flammable Limits (Approximate volume % in air): LEL: No data UEL: No data Autoignition Temperature: No data	EXPOSURE LIMIT VALUES
	Substance Limit / Standard SOURCE
HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide, smoke, vapors (fumes),	Paraffin Wax fumes TWA: 2 mg/m3 ACGIH (United States)



	temperatures.			
Proc.			SECTION 14 - TR	ANSPORT INFORMATION
Eye Irritation (Rabbit)	May cause mild, short-la	sting discomfort to the	The shipping descript	ion below may not represent requirements for all modes of transportation
interior (report)	eyes.	sang disconnore to the		locations outside of the United States.
cause mutations in vitro. High ora changes (micro-granulation) in live	•	nicroscopic inflammatory an weights, inflammation	DOT Proper Shipping DOT Hazardous Class DOT Haz. MAI Table: DOT Labels Required DOT Placards Require	Ification Not regulated 172.101 Not Listed None for solid material None for noiten material shipped under 100°C (212°F) Hot molten material greater than 100°C (212°F) eclas 9 HOT placard Bill of Lading must be carry the statement: Elevated temperature material, liquid, No. S. 9, NB257
			MARPOL III Status	III (WAX) Not a DOT 'Marine Pollutant' per 49 CFR 171.8
	ave not been conducted on this material. D y localized environmental damage and not e		TDG Classification Reportable Quantity	Not a DOT marine Pointant per 49 CFR 171.8 Not controlled under TDG (Canada) Not been established for this material
harmful to aquatic organis		xpected to be	SECTION 15 - RE	EGULATORY INFORMATION
	ormally float on water and have low solubilit water to land. The wax is expected to partit		TSCA Inventory	This material and/or its components are listed on the Toxic Substance Control Act (TSCA) inventory.
	waxes will biodegrade over time.		SARA 302/304	The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302/304 to submit emergency planning and notification information based on Threshold Planning, Quantities (TPQs)
	CONSIDERATIONS on material as supplied. Disposal must be in nd material characteristics at time of dispose			and Reportation Dased on Threshold Phanning coandous (Tree) and Reportable Quantities (RQs) for "Externely Hazardous Substances' listed in 40 CFR 302.4 and 40 CFR 355. No components were identified.
	nine the proper storage, transportation, trea and residues at the time of disposition.	atment, and/or disposal	SARA 311/312	None
recycling methods in acco	are supervised incineration, preferably with dance with applicable regulations and mate		SARA 313	This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.
time of disposal.			CERCLA	This material does not contain any chemical substances subject to this statute.
hazardous waste (40 CFR,	ATION used material, in our opinion, is not specific Part 261D), nor is it formulated to contain m material does not exhibit the hazardous cha	aterials which are listed	WHMIS	This is not controlled material as defined by the Canadian Hazardous Products Act (Bill C70)
corrositivity, or reactivity.	The material is not formulated with contam Leaching Procedure (TCLP). However, used PA office for guidance concerning case spec	inants as determined by product may be regulated.	CANADIAN DSL	Listed
Contact your regional US I				



Tirest Technology Co. Ltd. Cutting fluid SDS NO.:T190711022A	Tirres Technology Ec. Ltd.	g fluid	1 24.1 12	SDS NO.:T190711022A
1. Identification of the chemical and supplier		container in acc	cordance with local/rej	gional/national/international
1.1 Product identifier	regulations. 2.5 Hazard description			
Product Mame: Cutting fluid	2.5 Hazard description 2.5.1 Physical and chemical	h an and a		
Product Name: Cutang nato Product Model: SOXY-209	2.5.1 Physical and chemical This product is normally us		ed.	
1.2 Relevant identified uses of the substance or mixture and uses advised against	2.5.2 Health hazards	cu whitout haze	u u.	
Relevant identified uses: Optical mirror glass processing.	None.			
Uses advised against: Please consult manufacturer.	2.5.3 Environmental hazard			
1.3 Details of the supplier of the Safety Data Sheet	Please refer to 12th chapter			
Name of the company: FoShan FangXi Technology Co., Ltd.				
Address of the company: Rm 602 19th NanYi District, HaiSan Road, NanHai FoShan	3、Composition/information	n on ingredie	nts	
Guangdong	Substance Prepation			
Telephone number: +86 (0) 757-86260662	Composition:			
Fax number: +86 (0) 757-86260662				
Zip code: 528000	Component	CAS No.	EC No.	Concentration
Email address: 448410561@qq.com				(weight percent, %)
1.4 Emergency phone number	Triethanolamine	102-71-6	203-049-8	5-20
Emergency phone number: +86 (0) 13600309159	Amine neutralized			0000
2. Hazards identification	earboxylic acid			5-15
2.1 Hazard classification according to GHS:	Polychloroquaternium 3	1075-24-8		0.1-0.5
Skin corrosion/irritation Category 3	Control of Product Control And Product Control of Contr			
Skin corrosion/irritation Category 3 Harmful to aquatic environment Acute bazard Category 2	4. First aid measures			
Harmful to aquatic environment Acute hazard Category 2		ALCON DOLLARS	1	
	4.1 Description of first aid me		n is required. Show this	is safety data sheet (SDS) to
Harmful to aquatic environment Acute hazard Category 2 Harmful to aquatic environment Long-term danger Category 2	4.1 Description of first aid me General advice: Immediate		n is required. Show thi	is safety data sheet (SDS) to
Harmful to aquatic environment Acute hazard Category 2 Harmful to aquatic environment Long-term danger Category 2	4.1 Description of first aid mea General advice: Immediate the doctor in attendance.	nedical attentio		1 (A) (A)
Harmful to aquatic environment Acute hazard Category 2 Harmful to aquatic environment Long-term danger Category 2	4.1 Description of first aid mee General advice. Immediate the doctor in attendance. Skin contact: During produce	nedical attentio tion, take off co	ntaminated clothing a	nd shoes immediately. Wash
Harmful to aquatic environment Acute hazard Category 2 Harmful to aquatic environment Long-term danger Category 2	4.1 Description of first aid me General advice: Immediate the doctor in attendance. Skin contact: During produc off with plenty of water for al least	nedical attentio tion, take off co 15 minutes and	ntaminated clothing an l consult a physician if	nd shoes immediately. Wash fell uncomfortable.
Harmful to aquatic environment Acute hazard Category 2 Harmful to aquatic environment Long-term danger Category 2 2.2 Label elements	4.1 Description of first aid mee General advice. Immediate the doctor in attendance. Skin contact: During produce	nedical attentio tion, take off co 15 minutes and	ntaminated clothing an l consult a physician if	nd shoes immediately. Wash fell uncomfortable.
Harmful to aquatic environment Acute hazard Category 2 Harmful to aquatic environment Long-term danger Category 2 2.2 Label elements Hazard pictograms:	4.1 Description of first aid met General advice: Immediate the doctor in attendance. Skin contact: During produc off with plenty of water for at least Eye contact: Rinse thorou physician if fell uncomfortable.	nedical attentio tion, take off ec 15 minutes and ghly with plent	ntaminated clothing an consult a physician if y of water for at least	nd shoes immediately. Wash fell uncomfortable. t 15 minutes and consult a
Harmful to aquatic environment Acute hazard Category 2 Harmful to aquatic environment Long-term danger Category 2 2.2 Label elements Hazard pictograms: Signal word: Warning	4.1 Description of first aid mee General advice: Immediate the dector in attendance. Skin contact: During produc off with plenty of waler for at least Eye contact : Rinse thoroug	nedical attentio tion, take off co 15 minutes and shly with plent use conditions	ntaminated elothing an consult a physician if y of water for at least , no adverse effects	nd shoes immediately. Wash fell uncomfortable. t 15 minutes and consult a will occur. If contact with
Harmful to aquatic environment Acute hazard Category 2 Harmful to aquatic environment Long-term danger Category 2 2.2 Label elements Kazard pictograms: Signal word: Warning 2.3 Hazard statements: H316 Causes mild skin irritation H411 Toxic to aquatic life with long lasting effects	4.1 Description of first aid mee General advice: Immediate the doctor in attendance. Skin contact: During produc off with Jenty of water for at least Eye contact: Rimse thorou physiciani if fell uncomfortable. Imhalation : Under normal	nedical attentio tion, take off cc 15 minutes and ghly with plent use conditions occurs.Move v	ntaminated clothing an consult a physician if y of water for at leas , no adverse effects ictim into fresh air. If	nd shoes immediately. Wash fell uncomfortable. t 15 minutes and consult a will occur. If contact with breathing is difficult, give
Harmful to aquatic environment Acute hazard Category 2 Harmful to aquatic environment Long-term danger Category 2 2.2 Label elements Hazard pictograms; Signal word; Warning 2.3 Hazard statements; H316 Causes mild skin irritation H411 Toxic to aquatic life with fong lasting effects 2.4 Precationary statements	4.1 Description of first aid mee General advice: Immediate the doctor in attendance. Skin contact: During produc off with plenty of water for at least Eye contact : Rinse thoroug physiciani if fell uncemfortable. Inhalation : Under normal decomposition products, irritation	nedical attentio tion, take off cc 15 minutes and ghly with plent use conditions occurs.Move v th resuscitation	ntaminated clothing an consult a physician if y of water for at least , no adverse effects ictim into fresh air. If if victim ingested or i	id shoes immediately. Wash fell uncomfortable. 15 minutes and consult a will occur. If contact with breathing is difficult, give hhaled the substance. If not
Harmful to aquatic environment Acute hazard Category 2 Harmful to aquatic environment Long-term danger Category 2 2.2 Label elements Hazard pictograms: Signal word: Varning 2.3 Hazard statements: H316 Causes mild skin irritation H411 Toxic to aquatic life with long lasting effects 2.4 Precautionary statements 2.4.1 Precaution	4.1 Description of first aid mee General advice: Immediate the doctor in attendance. Skin contact: During produce off with plenty of water for at least Eye contact: Rinse thoroug physician if fell uncomfortable. Inhalation : Under normal decomposition products, irritation oxygen. Do not use mouth to mou	nedical attentio ion, take off co 15 minutes and ghly with plent use conditions occurs.Move v th resuscitation and consult a p	ntaminated clothing an consult a physician if y of water for at least , no adverse effects ictim into fresh air. If if victim ingested or i physician immediately.	nd shoes immediately. Wash fell uncomfortable. 1 15 minutes and consult a will occur. If contact with breathing is difficult, give nhaled the substance. If not
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Harmful to aquatic environment Acute hazard Category 2 Harmful to aquatic environment Long-term danger Category 2 2.2 Label elements Hazard pietograms: Signal word: Warning 2.3 Hazard statements: H316 Causes mild skin irritation H411 Toxic to aquatic life with long lasting effects 2.4 Precentionary statements 2.4.1 Prevention P273 Avoid relase to the environment. 2.4.2 Response	4.1 Description of first aid met General advice: Immediate the doctor in attendance. Skin contact: During produce off with plenty of water for at least Eye contact: Rinse thoroug physician if fell uncemotrable. Inhalation : Under normal decomposition products, irritation oxygen. Do not use mount to mou breathing, give artificial respiration Intakes: Do not induce vomit	nedical attentio ion, take off co 15 minutes and thy with plent use conditions occurs.Move v th resuscitation and consult a p ng. Never give	ntaminated clothing an l consult a physician if y of water for at lease no adverse effects ictim into fresh air. If if victim ingested or i physician immediately. anything by mouth to	nd shoes immediately. Wash fell uncomfortable. 1 15 minutes and consult a will occur. If contact with breathing is difficult, give nhaled the substance. If not
Harmful to aquatic environment Acute hazard Category 2 Harmful to aquatic environment Long-term danger Category 2 2.2 Label elements Hazard pictograms: Signal vord: Warning 2.3 Hazard statements: H316 Causes mild skin irritation H411 Toxic to aquatic fift with long lasting effects 2.4 Precautionary statements P273 Avoid release to the environment. P273 Avoid release to the environment. 2.4.1 Response P301 Collect spills.	4.1 Description of first aid mee General advice: Immediate the deotor in attendance. Skin centact: During produc off with plenty of water for at least Eye cuts of water for at least Eye contact : Rinks thoroug physiciani if fell uncomfortable. Inhalation : Under normal decomposition products, irritation oxygen. Do not use mouth to mou breathing, give artificial respiration Intake: Do not induce vomit a physician or Poison Control Cent	nedical attentio ion, take off ec 15 minutes and ghly with plent use conditions occurs.Move v th resuscitation and consult a p ng. Never give er immediately.	ntaminated clothing an consult a physician if y of water for at least , no adverse effects ictim into fresh air. If if victim ingested or i hysician immediately, anything by mouth to	nd shoes immediately. Wash fell uncomfortable. 15 minutes and consult a will occur. If contact with breathing is difficult, give nhaled the substance. If not an unconscious person. Call
Harmful to aquatic environment Acute hazard Category 2 Harmful to aquatic environment Long-term danger Category 2 2.2 Label elements Hazard pietograms; Signal word: Warning 2.3 Hazard statements; H316 Causes mild skin irritation H411 Toxic to aquatic life with long lasting effects 2.4 Precautionary statements 2.4 Prevention P273 Avoid release to the environment. P329 Favoid Fals Kish irritation occurs: Get medical advice/attention.	4.1 Description of first aid mee General advice: Immediate the dector in attendance. Skin contact: During produc off with plenty of waler for at least Eye contact : Rinse thorou physiciani if fell uncomfortable. Inhalation : Under normal decomposition products, irritation oxygen. Do not use mouth to mou breathing, give artificial respiration Intake: Do not induce vomit a physician or Poison Control Cent Protecting of first-aiders; Ensure that medical personne themselves and prevent spread of	nedical attentio ion, take off cc 15 minutes and ghly with plent use conditions occurs.Move v th resuscitation and consult a p g, Never give er immediately. are aware of th ontamination.	ntaminated clothing an consult a physician if y of water for at least , no adverse effects ictim into fresh air. If i vietim ingested or i physician immediately, anything by mouth to a substance involved.	nd shoes immediately. Wash fell uncomfortable. 15 minutes and consult a will occur. If contact with breathing is difficult, give nhaled the substance. If not an unconscious person. Call Take precautions to protect
Harmful to aquatic environment Acute hazard Category 2 Harmful to aquatic environment Long-term danger Category 2 2.2 Label elements Figure 2.2 Label elements Figure 2.3 Lazard pictograms: Signal word: Warning 2.3 Hazard statements: H316 Causes mild skin irritation H411 Toxic to aquatic fife with hog lasting effects 2.4 Prevautionary statements 2.4.1 Prevention P273 Avoid release to the environment. 2.4.2 Response P391 Collect spills. P332-P313 If skin irritation occurs: Get medical advice/attention. 2.4.3 Storage	4.1 Description of first aid met General advice: Immediate the doctor in attendance. Skin contact: During produce off with pleaty of water for at least Eye contact: Rinse thoroug physiciani if fell uncomfortable. Inhalation : Under normal decomposition products, irritation oxygen. Do not use mouth to mou breathing, give artificial respiration Intake: Do not induce vomit a physician or Poison Control Cem Protecting of first-aiders: Ensure that medical personne themselves and prevent spread of 4.2 Indication of any immediat	nedical attentio ion, take off cc 15 minutes and ghly with plent use conditions occurs.Move v th resuscitation and consult a p g, Never give er immediately. are aware of th ontamination.	ntaminated clothing an consult a physician if y of water for at least , no adverse effects ictim into fresh air. If i vietim ingested or i physician immediately, anything by mouth to a substance involved.	nd shoes immediately. Wash fell uncomfortable. 15 minutes and consult a will occur. If contact with breathing is difficult, give nhaled the substance. If not an unconscious person. Call Take precautions to protect
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actions. Chemin possible cplosion Condition Incom Hazard component 11.1 Act Comp 11.2 C 11.3 O Comp onent	cal stabil lity of ha tions to a patible m dous dece sition pro- cicologic cute toxic ponent aponents arcinoger Compo All compu- thers Corro sive skin/ irritati on	ity: stable azardous r void: Ele- raterials: omposition ducts shou cal inform city LL Ne nicity nent s eye damag e'irrita tion	e under eactior trostat Strong 1 prod- id not b nation De(ora 4 availab Skin sensiti zation	is: React ic dischar oxides; s ucts: U e produce 1 D D He Respir atory sensiti zation	ts violent ge, heat, trong aci nder norr ed. LDss(1) <u>IARC</u> Not Listed Repro ductiv c toxicit y	ly with or humidity ds, strong mal cond Franscuta Not availab d Specif ic target organ	cidants, cc, etc. bases. titons of : incous) ie Specif ie target organ	storage a LCss() Not Aspira tion	nd use, 1 inhalatio fot availab VTP t Listed Germ cell mutag enicit y	mbustion nazardous n. 4h) ie Repro ductiv c toxicit y	All co 13、 Di Dispos for dispos Waste the packa to the sup Dispos 14、 Tr: Unitée UN pr UN Ri Packia Marin Packia	sposal co sposal consid sal.consid sal.consid aging are of pplier for r ial consid ansport: I Nations oper ship sk Classif ag Catego ging label e Pollutan ag methor	No nsider erations s: Continue erations erations tition in Dangerer ication: ry: III fistion: ry: III fistion: ry: III fistion: ry: III fistion: ry: III fistion: fis	available ations : Recyc of this pr minated Keep aw : Refer t format us Good ne: Nor 9 No): Ye accordi	le as muc oduct by packagin ay from o the "Di ion s Numbe e	Not availab ch as poss means of g: Residu heat and sposal" s er (UN N	ie sible.If it discharg aal hazar sources ection. 0.): The	cannot t ge to the s ds may st of ignitic	be recycle sewer. till exist a on. If pos	res Not at ed, use ir after the c sible, rec ngerous.	aults vailable acineratic contents of cycle the apple: ope

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		Versio Jan 5
1. IDENTIFICATION OF THE PRODUCT AN	D THE COMPANY	
Product Name	Silicon Carbide Abra	
Manufacturer		
Telephone Number	(86) 512 5360 5941	Co., Ltd. (Jiangsu, Chin
Additional information available from:	www.sicworld.com	
2. HAZARDS INDENTIFICATION		
PHYSICAL HAZARDS		
Explosives		
Flammable gases		Off the subject
Flammable aerosols		Off the subject
Oxidizing gases		Off the subject
Gases under pressure		 Off the subject
Flammable liquids		Off the subject
Flammable solids		Out of category
		Off the subject
Self-reactive substances and mixtures		Off the subject
Pyrophoric liquids		•
Pyrophoric solids		Off the subject
Self-heating substances and mixtures		•
Substances and mixtures which in conta flammable gases	ct with water, emit	Off the subject
Oxidizing liquids		
Oxidizing solids		
Organic peroxides		- on the subject
Corrosive to metal		- On the subject
HEALTH HAZARDS		Not classified
Acute toxicity (Oral)		
Skin corrosion / irritation		 Not classified
Serious eye damage / eye irritation		 Not classified
		 Not classified
		 Not classified
		 Not classified
and the second sec		 Not classified
reproductive toxicity		 Not classified
Respiratory or skin sensitization Germ cell mutagonicity Carcinogenicity Reproductive toxicity	М	Not classified Not classified Not classified Not classified

Specific target organ	systemic toxicity (single exposure)						
Specific target organ	systemic toxicity (repeat exposure)	Category 1					
Aspiration hazard	(repeat exposure)	Not classified					
ENVIRONMENTAL HAZAI	RDS	Not classified					
Hazardous to the aqu	uatic environment (acutus hazard)	Not classified					
Hazardous to the aqu	Hazardous to the aquatic environment (acutus hazard)						
GHS RAVEL MARK	(chief the fiazard)	Not classified					
Signal word : Danger	🔇	>					
HAZARD INFORMATION	Eve irritancy	Danger					
	-je arreancy						
	consess damage to organs (respir	atory apparatus)					
	 May cause damage to organs thr exposure (lung) 	ough proionged or repeated					
	Skin irritancy						
	 There is a possibility of stimulati dust is generated, by dryness. 	ng the respiratory organ when					
CAUTIONS	Weak stimulativeness may be left	t to the skin and sys.					
Prevention measure							
Prevention measure	 Do not eat, drink or smoke when 	using this product.					
	 Use only in well-ventilated area. 						
	Do not breathe dust						
itoraee	 After handling, the hand is washed 	d well					
	in dry area .						
	 Dispose of content and containers with related regulations. 	appropriately in accordance					
itorage Nispodsl	Keep in dry area . Dispose of content and containers						

2 00000								
		IN ON INGREDIENTS/PRODUCTS						
Chemical Nam		Silicon Carbide						
Chemical Formula		SIC						
Composition (JISGC#1000)		Silicon Carbide (SiC)	98.98 %					
		Free Carbon (F.C.)	0.15%					
		Free Silicon (Si)	0.31%					
		Free Silicon Dioxide (SiO ₂)	0.29%					
		Ferric Oxide (Fe ₂ O ₃)	0.07%					
4. FIRST AID ME								
General advice Skin contact		his safety data sheet to the doct						
	contam	ff immediately with soap and ple inated clothes and shoes rritation persists, call a physicia						
Eye contact	If sympt	lenses and continue flushing for toms persist, call a physician	After initial flushing, remove any at least 15 minutes					
Inhalation	If breat If not br	fresh air hing is difficult, give oxygen eathing, give artificial respiratio a physician if necessary	n					
Ingestion		outh with water and afterwards	drink plenty of water					
	Never gi	ve anything by mouth to an unco	onscious person					
	 Do not in 	nduce vomiting without medical a physician	advice					
5. FIRE-FIGHTING	MEASURES							
iultable extingui	shing media	 The product itself does no Use extinguishing measure circumstances and the sur 	es that are appropriate to local					
oecial protective	e equipment		hing apparatus and protective suit					

6. ACCIDENTAL RELEASE MEA	SURES						
Personal precautions	Wear pe Avoid du		protective equipment mation				
Environmental precautions							
Methods for cleaning up			anically and collect in suitable container for				
7. HANDLING AND STORAGE							
Technical measures/ Precauti	ons (handling)		No special handling advice required				
Safe handling advice (handlin			Avoid dust formation in confined areas				
Technical measures/ Precauti	ons (storage)	•	Keep in a dry place Keep container tightly closed				
8. PERSONAL PROTECTIVE EQ	UIPMENT						
Respiratory protection	equipment When wo	nt rkers	ficient ventilation, wear suitable respiratory are facing concentrations above the exposure use appropriate certified respirators				
Hand protection	Protective Wear as a	e glov	es				
Eye protection			afety goggies vith side-shields				
Skin and body protection			ective equipment required				
Hyglene measures	When using	ng, da	not eat, drink or smoke g of equipment, work area and clothing				

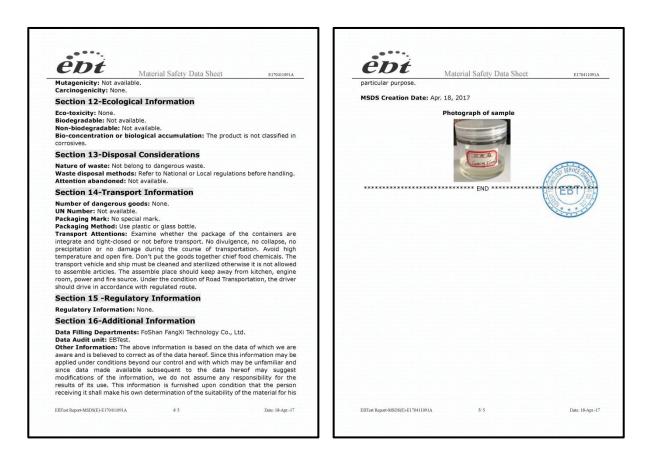
FULTECH	MATERIAL	SAFETY DATA SHEET SILICON CARBIDE POWDER Version: 2.02 Jan 5 ⁶ , 2017		FULTECH MATERIALS.	AFETY DATA SHEET SILICON CARBIDE POWDEI Version: 2.0 Jan 5 th , 201
9. PHYSICAL AND CHEMICA	L PROPERTIES			13. DISPOSAL CONSIDERATIONS	
Form	Powder			Product Can be eliminated with re	egular industrial washes
Color	Off-green			Used packing Empty and possibly wash	with water before recycling.
Odor	None			Pay attention to eventual	
Melting Point	• 2200°C and above		10.200 C		
Risk of explosion	Not applicable			14. TRANSPORT INFORMATION	
Water solubility	Insoluble			International / national regulation Not applicable	
pН	Neutral				
Solubility in other solvents	Insoluble			15. REGULATORY INFORMATION	
					Appended table 9
10. STABILITY AND REACTIV	/ITY			Pollutant Release and Transfer Register NA	
Stability	Stable under normal con			16. OTHER INFORMATION	
Conditions to avoid	Hazardous polymerizatio No decomposition if data			This sheet is given in addition to the technical data sheet.	
Materials to avoid	No information available	ed and applied as directed		The information contained herein is given in good faith, accordi	og to our up to date knowledge
Decomposition	Not applicable			The use of this product for unusual application may possibly pre	
11. TOXICOLOGICAL INFORM Skin irritation Eye irritation Inhalation	Severe skin irritation Severe eye irritation May cause irritation of re			The user must know and apply the regulation of his own activity good use of this product in respect to the statutory information Nevertheless; this sheet is not exhaustive and the user must pay regulations relative to the storage or using of this product. Information herein is given in good failth as authoritative and val express or implied, can be made.	given in this sheet. Attention to other
	- ingestion may cause inno	ation to mucous membranes		*End of safety data sheet	
12. ECOLOGICAL INFORMATI					
Hazardous to the aquatic en	wironment (acutus hazard)	No data			
Mobility	(chronic nazard)	No data	THE R.		
Degradation		Insoluble, settles easily			
lioaccumulation		Inert mineral product None			
Cotoxicity		None None			
		- noite			
of 6		MSDS - Silicon Carbide Powder		6 at 6	MSDS - Silicon Carbide Powder

<i>ebt</i> Mater	rial Safety Data Sheet	E160924050E	edt	Material Safety Data Shee	t E16092405
MSD	S REPOR	ЭT	Product Name: OPTIC	tification: FoShan FangXi Technolo dong, China 62	
MSD	5 KEPUF		does not belong to dar Invasion route: Eyes Health Hazards: The Environment hazard	ccordance with Directive 2001/58/i gerous article. touch, skin touch ingestion. pyrolysis product may effect irritati s: Heating the product will release i	on to respiratory trad
Product Nan	ne: OPTICA ADHESIV	Е	Section 3-Compo	: The product is classified in flamma osition/Information on In	
	No: A-01		Admixture	Chemical Name	Percent
				Cyanoacrylate	61-100 %
				Thickening agent/Stabilizer	Small quantity
Company Name: Fo				duction process, rinse the skin imn	
(i	no(63) (Service (Shanghai hai)	Co., Ltd	Skin touch: In the pro Eyes touch: Lifting the Get medical aid if nece Inhalation: Keep resp. Ingestion: Get medic Section 5-Fire Fi Danger characteristi irritate gas when meet Hazardous Combusti	duction process, rinse the skin imn e yelids, flush with plenty of water sary. iratory tract unobstructed, provide al aid immediately. ghting Measures c: The product is flammable with fli high temperature. on Products : CO, CO.	immediately. fresh air. re and product
(i	unit in	Co., Ltd	Skin touch: In the pro Eyes touch: Lifting the Get medical aid f nece Inhalation: Keep resp Ingestion: Get medic. Section 5-Fire Fi Danger characteristi irritate gas when meet Hazardous Combusti Fire-Fighting method as far as possible. Exti	duction process, rinse the skin imn e veilids, flush with plenty of water ssary. iratory tract unobstructed, provide al aid immediately. ghting Measures c: The product is flammable with fii high temperature. on Products: CO, CO ₂ . & media: Move containers from the nguisher: mist shape water, dry pow	immediately. fresh air. re and product fire to the empty play
(i	unit in	Co., Ltd	Skin touch: In the pro Eyes touch: Lifting the Get medical aid frace Inhalation: Keep resp. Ingestion: Get medic Section 5-Fire Fi Danger characteristi irritate gas when meet Hazardous Combusti Fire-Fighting method as far as possible. Exti	duction process, rinse the skin imn e veilids, flush with plenty of water ssary. iratory tract unobstructed, provide al aid immediately. ghting Measures c: The product is flammable with fir high temperature. on Products: CO, CO ₂ . & media: Nove containers from the	immediately. fresh air. re and product fire to the empty pla- wder, and sand.
(i	unit in	Co., Ltd	Skin touch: In the pro Eyes touch: Lifting the Get medical aid fnece Inhalation: Keep resp. Ingestion: Get medici Section 5-Fire Fi Danger characteristi irritate gas when meet Hazardous Combusti Fire-Fighting method as far as possible. Exti Section 6-Accide Emergency treatmer	duction process, rinse the skin imn e yellds, flush with plenty of water sary. irratory tract unobstructed, provide al aid immediately. ghting Measures c: The product is flammable with fir high temperature. on Products: CO, CO. & media: Move containers from the nguisher: mist shape water, dry pov ental Release Measures th: Massive divulgence: Dig pit to ac	immediately. fresh air. re and product fire to the empty pla- wder, and sand.



Material Safety Data Sheet E140924650E MSDS Creation Date: Sep. 25, 2016	Material Safety Data Sheet ETOHIO91A
Photograph of sample	MSDS REPORT
END *****	Product Name: Cutting Fluid
	Company Name: FoShan FangXi Technology Co., Ltd.
	Written by EBTest Technolog Stryter (Shanghai hai) Co., Ltd
EBTest Report-MSDS(E)-E160724050E 5/ 5 Date 25-Sep16	EBTest Report-MSD5(E)-E170411091A 1/5 Date: 18-Apr-17

ebt	Material Safety Data Sheet	E170411091A	Material Safety Data Sheet E170411091A
ection 1-Chemic	cal Product and Company I	dentification	special collector.
roduct Name: Cutting			Section 7-Handling and Storage
ompany Name Iden DD: Fo Shan, Guangd EL: +86 757-8626066 AX: +86 757-8626066 ection 2-Hazard	52	y Co., Ltd.	Handling: With closed operation. Provide adequate local exhaust system. Keep away from fire and heating sources. Prevent contact strong acid and alkali. Equip relevant types and quantities of devices for divulgence handling. Storage: Keep the product in the cool, well-ventilated, and dry place. Keep away from fire and hating sources. Keep the container closed. The storage place should equip devices for divulgence and suitable accent materials.
	ccordance with Directive 2001/58/EC	, the product does not	Section 8-Exposure Controls, Personal Protection
elong to dangerous art nvasion route: Eyes t	ticle. touch, skin touch ingestion.		Maximum admissible concentration: No standard yet.
ealth Hazards: The p	pyrolysis product may effect irritation		Monitoring Methods: Using automatic alarming device.
	Heating the product will release irri The product is not belong to flamma		Engineering controls: Keep the workshop place ventilation. Respiratory protection: Wearing a mask when in higher concentration air.
ection 3-Compo	sition/Information on Ing	redients	Eyes Protection: Wear working glasses.
dmixture	j		Body protection: Wear working clothes. Hands Protection: Wear working gloves.
CAS No.	Chemical Name	Percent	Other Protections: No smoking, dining and drinking water in the workplace. Keep
102-71-6	Triethanolamine	25%	good habit of hygiene.
	Surface active agent	10%	Section 9-Physical and Chemical Properties
	Lubricant	20%	Appearance: Light color transparent liquid, weak odor. Flash Point: >80°C
	Others	45%	Boiling point: Not available. Melting point: Not available.
ection 4-First Ai	id Measures		Proportion: 0.9-1.0 g/cm ³ .
	duction process, rinse the skin imme	diately	PH Value: Not available. Permission of solvent inhalation: Soluble in some organic solvents.
yes touch: Lifting the	eyelids, flush with plenty of water imr		Section 10-Stability and Reactivity
d if necessary.	ratory tract unobstructed, provide fre	ash air	Stability: Stable under normal usage.
igestion: Get medica		and and a second se	Distribution of Ban: Not available.
ection 5-Fire Fig	ghting Measures		Conditions to Avoid: High temperature, strong acid, strong alkali. Hazardous Polymerization: Not available.
	: The product is not belong to flamm	able article.	Hazardous Polymenzation: Not available. Hazardous Decomposition Products: CO, CO ₂
	on Products: CO, CO ₂ . & media: Move containers from the t	fire to the emoty place	Section 11-Toxicological Information
	guisher: mist shape water, dry powd		Acute Toxicity: The product is not classified in toxic and infectious substances.
ection 6-Accide	ntal Release Measures		Sub-acute and Chronic Toxicity: Not available.
mergency treatmen	t: Massive divulgence: Dig pit to a	accept. Shift into the	Irritation: Cause irritate to skin and eyes. Sensitization: Not available.



ボンド G17(170mlチューブ)		1/9	ボンド G17(170mlチューブ)	
Safety	Data Sheet (SDS) Creation Date Revision Date	2010/12/16 2017/06/20		May cause respiratory irritation (H335) May cause drowsiness or dizziness (H336) Suspected of damaging fertility or the unioom child (H361)
Product Name	T AND COMPANY IDENTIFICATIO : G17(170mlチューブ)	N		May cause damage to organs (vascular system) (H371 May cause damage to organs (blood, central nervous system, peripheral nervous system) through prolonged repeated exposure (H373)
Product Code Company Name Address	: 171315 : KONISHI CO., LTD. : Kitahama TNK Bldg., 1-7-1 Dosho-machi, Osake, Japan	Chuo-ku,	Precautional Statements	Very toxic to aquatic life (H400) Harmful to aquatic life with long lasting effects (H412)
Company Contact Phone Number (Osaka) Emergency Phone Number	: Customer Relations :+81-6-6228-2994 :+81-6-6228-2994		Prevention Precautionary Statements	Obtain special instructions before use. (P201) Do not handle until all safety precautions have been read and understood. (P202) Keep away from heat/sparks/open flames/hot surface
Recommended Use and Restriction on Use	: Adhesive for fixture			No smoking, (P210) Keep container tightly closed, (P233) Ground/bond container and receiving equipment, (P24
Section 2 - HAZARDS IDENTIFIC GHS Classification Physical Hazards	CATION Flammable liquids Category 2 Pyrophoric liquids Not classified Self-heating substances and mixtures No Substances and mixtures which, in contar emit, flammable gases. Not classified			Use explosion-proof electrical/ventilating/ighting/equipment. (P241) Use only non-mparking tools. (P242) Take preceditionary measures against static discharge (P243) Do not treatho dust/fume/gas/mist/vapours/spray.
Health Hazards	Oxidizing liquids Not classified 2 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Categor Reproductive toxicity Category 2 Specific target organ toxicity, single expo 2 (vascular system)	sure Category		(P260) Avoid breathing dust/fume/gas/mist/vapours/spray. (P261) Wash hands thoroughly after handling. (P264) Wash eyes throughly after handling. (P264) Do not est, drink or smoke when using this product. (P270)
	Specific target organ toxicity, single expo 3 (narcotic effects, respiratory tract irrita Specific target organ toxicity, repeated e: Category 2 (blood, central nervous system nervous system) Aspiration hazard Not classified	ttion) «posure n. peripheral	Response Procautionary Statements	Use only outdoors or in a well-ventilated air. (P271) Avoid release to the environment. (P273) Wear protective gloves, protective clothing/eye protection/face protection. (P280) Wear protective gloves. (P280) If fon skin: Veah with plenty of scap and water.
Environmental Hazards	: Acute toxicity to the aquatic environment Chronic toxicity to the aquatic environme Other hazards than mentioned above are or Classification not possible.	nt Category 3		(P302+P352) If on skin(or hair) : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. (P303+P361+P353)
GHS Label Elements Symbols		الله الله الم		Finhaled : Remove person to fresh air and keep controtable for breathing. (P304-P304) If in eyes : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy t do. Continue mining. (P305-P361+P336) If exoosed or concerned : Q to medical advice/attentit
Signal Word Hazard Statements	: Danger : Highly flammable liquid and vapour (H225) Causes skin and eye irritation (H315+H32			(P308+P313) Call a POISON CENTER or doctor/physician if you fee unwell. (P312)

			ボンド G17(170mlチューブ)	
		ice/attention if you feel unwell.		
	Specific treatme		Section 4 - FIRST AID MEA	SURES
	(P332+P313)	occurs : Get medical advice/at	Inhalation	 Move affected person to the open air. Keep him or h at rest to allow easier breathing.
	(P337+P313)	ersists : Get medical advice/a	Skin Contact	Call a doctor if you feel unwell. : Remove/Take off immediately all contaminated clot
	Take off contam reuse. (P362+P3	inated clothing and wash it befo 64)		and rinse skin with water/shower. Wash with plenty of soap and water.
	In case of fire : extinction. (P370	Use appropriate extinguishant f)+P378)	Eye Contact	Call a doctor. : Rinse carefully with water for several minutes. Remo contact lenses if present and easy to do. Continue
0	Collect spillage.			rinsing.
Storage Precautionary Statements	: Store in a well- closed. (P403+P	ventilated place. Keep container 233)	Ingestion	Call a dector. Rinse mouth. Do not induce vomiting.
	Store in a well-	ventilated place. Keep cool. (P4	- LES - COLOGE DES	Call a doctor.
	Store looked up.	(P405)	Protection of first-aiders	: Wear appropriate protective equipment as required.
Disposal Precautionary Statements	: Dispose of conte	ents/container in accordance w ational/international regulation.	Section 5 - FIRE FIGHTING	MEASURES
Specific Hazards		poisoning may be caused.	Extinguishing media	: Fire extinguisher (powder/foam), carbon dioxide, wat spray, sand.
Section 3 - COMPOSITION / IN	FORMATION O	N INGREDIENTS	Extinguishing media that are NOT	suitabl : Water
Distinction of Substance or Mixture	Mixture			Columnar water jet streams.
Chemical Name or Generic Name		ber solvent based adhesive	Specific Hazards	 Highly combustible. Ignited easily by heat. sparks or I
Chemical Name or Generic Name	Concentration or Its Ranges(wt%)	CAS No.	Specific methods of fire-fighting	 Extinguish fire from windward side in a place free of retention, and take steps against leakage.
Chloroprene rubber	25-35	nondisclosure	Protection of Fire Fighter	: In fire-extinguishing activity, wear an appropriate air
Phenolic resin	a second and female land a second	nondisclosure		breathing apparatus and full protective clothing for
Cyclohexane	30-40	110-82-7	1 1	chemicals.
Acetone	10-20	67-64-1	8	
Isopropyl acetate	5-10	108-21-4	Section 6 - ACCIDENTAL	ELEASE MEASURES
n-Hexane	5-10	110-54-3		
Methylpentane(mixture) Rosin	1-5	listing 8050-09-7	Personal Precautions, Protective Equipment and Emergency Proce	 Isolate spill area. Prohibit unauthorized entry into the area.
2,6-Di-tert-butyl-4-methylphenol	<1	128-37-0		Ventilate the closed area. Do not touch the leakage.
	<1	108-10-1		Wear appropriate personal protective equipment (Ref
(BHT) Methyl isobutyl ketone	<1	112926-00-8		to "Section 8") and avoid inhalation or contact with
Mathyl isobutyl katone Silica	<1	1314-13-2	Environmental Precautions	eyes and skin. : Do not release into the environment.
Methyl isobutyl ketone			Live onnerical Precautions	
Mathyl isobutyl katone Silica	: No information a	vailable		Contamination of the terrestrial and aquatic environments should be avoided.
Mathyl isobutyl ketone Silica Zinc oxide Impurities and/or Stabilizing Additives	: No information a	vailable		environments should be avoided. Diluent may cause pollution.
Mathyl isobutyl ketone Silica Zinc oxide Impurities and/or Stabilizing Additives	: No information a	wailable	Methods and Equipment for Containment and Cleaning up	ervironments should be avoided. Diluent may cause pollution. : Ground all equipment used to handle leakage.
Methyl iscbutyl ketone Silica Zinc oxide Impurities and/or Stabilizing Additives	No information a	vailable		environmenta should be avoided. Diluent may cause pollution. : Ground all equipment, used to handle leakage. Stop leak if safe to do so. For amal amounts : Abaorb apils with inert material (such as dry sand or soil) and collect them into
Mathyl isobutyl ketone Silica Zinc oxide Impurities and/or Stabilizing Additives	. No information a	vallable		environmenta should be avoided. Diluent may cause pollution. : Ground all equipment used to handle leakage. Stop leak if safe to do so. For small amounts : Abarob spills with inert material

Accidents Section 7 - HANDLING AND STOP Handling	Provide ventilation system and Use necessary personal	Chemical Name or Generic Name Cyclohexane Acetone Isspropyl acetate n-fiexane Methylpentane(mixtura) Silioa	ACGIH TWA 100 ppm, STEL = TWA 250 ppm, STEL 200 ppm TWA 100 ppm, STEL 200 ppm TWA 300pm/rHexano, TWA 500ppm, STEL 1000ppm/f/svane, Other isomera)
Accidents Section 7 - HANDLING AND STOP Handling	: Removes all ignition sources promptly (Prohibition of emotions, parks, and flames in the surrounding area) Prevent flowing into ditches, drains, basements, or other olded areas. Remove thoroughy since the smooth and slippery surface will be formed on the floor. RAGE	Cyclohesane Acetone Isopropyl acetate n-Hexane Methy(pentane(mixtura)	TWA 100 ppm, STEL - TWA 250 ppm, STEL 500 ppm TWA 100 ppm, STEL 200 ppm TWA 50ppm(n-Hexane) TWA 500ppm, STEL 1000ppm(Hexane,
Accidents Section 7 - HANDLING AND STOP Handling	emoking, sparks, and Rames in the eurocunding area) Provent Roving into ditchos, drains, basaments, or other closed areas. Remove theroughly since the smooth and slippery surface will be formed on the floor. RAGE	Acetone Isopropyl acetate n-Hexane Methylpentane(mixtura)	TWA 250 ppm, STEL 500 ppm TWA 100 ppm, STEL 200 ppm TWA 50ppm(n=Hexane) TWA 500ppm, STEL 1000ppm(Hexane,
Section 7 - HANDLING AND STOP	Proved Illowing into diches, drains, basements, or other closed areas. Remove thoroughly since the smooth and slippery surface will be formed on the floor. RAGE : Provide ventilation system and Use necessary personal	lsopropyl acetate n−Hexane Methylpentane(mixture)	TWA 100 ppm, STEL 200 ppm TWA 50ppm(n=Hexane) TWA 500ppm, STEL 1000ppm(Hexane,
Handling	closed areas. Remove thoroughly since the smooth and slippery surface will be formed on the floor. RAGE : Provids ventilation system and Use necessary personal	n-Hexane Methylpentane(mixture)	TWA 50ppm(n=Hexane) TWA 500ppm, STEL 1000ppm(Hexane,
Handling	Remove theroughly since the smooth and slippery surface will be formed on the floor. RAGE : Provide ventilation system and Use necessary personal	Methylpentane(mixture)	500ppm, STEL 1000ppm(Hexane,
Handling	RAGE : Provide ventilation system and Use necessary personal		
Handling	Provide ventilation system and Use necessary personal		TWA 500 ppm, STEL 1000 ppm
Handling	Provide ventilation system and Use necessary personal		-
		Rosin	TWA - (L), STEL -
Technical Measures :		Methyl isobutyl ketone	TWA 20 ppm, STEL 75 ppm
	protective equipment as described in "Section 8".	2.6-Di-tert-butyl-4-methylphenol (BHT)	TWA 2 mg/m3 (IFV), STEL -
	Provide local ventilations and a full ventilation system as described in "Section 8".	Zine exida	TWA 2 mg/m3(R), STEL 10 mg/m3(R)
Precautions for Safe Handling	: Use in a well-ventilated place.	No	en en secon estas managamente en entras el secolos estas co
	Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. No open flame. No static electricity. Keep away from heat/sparks/open flames/hot surfaces.	Engineering Controls	: Use in a well-ventilated place. A workplace to store or handle this substance sho provided with an eye washing station and an emerg shower station.
	20. 023 123 20.03 42	5.00 - 53	Use local exhaust ventilation system.
	Do not breathe mist/vapour/spray.	Protection	
	: Refer to "Section 10".	Respiratory Protection	: Use the chemical cartridge respirators.
Substances or Mixtures	 Description of the second br/>second second sec	Hand Protection	: Wear protective gloves.
	: Wash hands thoroughly after handling.	Eye Protection	: Wear eye protection.
Storage Precautionary Statements	2.8 2	Skin and Body Protection	: Wear protective clothing/protective boots.
Storage Conditions :	 Storage facilities should consist of walls, pillars and floors of a fire-resistant structure and beams of noncombustible material. 	Section 9 - PHYSICAL AND CH	IEMICAL PROPERTIES
	Refer to "Section 10".	Appearance	
	Store at temperature : 2-40°C	Physical state	: Liquid
	Protect from sunlight.	Form	: Viscous liquid
	Keep container tightly closed.	Color	: Pale yellow
SANT WARE CONT	Store locked up.	Odor	: Aromatic odor
	: Use containers conforming to the United Nations	pH	: No data available
Packaging/Containers	Recommendations on the Transport of Dangerous Goods.	Initial boiling point and boiling ranges	: 56°C(Acetone)
, alian Alian Alian Alian Alian Alian Alian Alian Alian	00005.	Flash point. Flammability or explosive limits	: -22°C (Adopt minimum flash point)
Section 8 - EXPOSURE CONTROL	LS / PERSONAL PROTECTION	Lower	No data available
		Upper	No data available ≥1 (air = 1)
		Vapour density	≤1(ar = 1) : 0.87 s/cm3
		Specific gravity (relative density) Solubility	: 0.87 g/cm3 : Inscluble in water, Soluble in organic solvents,
		Auto-ignition temperature	: Insoluble in water. Soluble in organic solvents. : No information available
		Viscosity	: 2000~3000 mPars
		Section 10 - STABILITY AND F Reactivity Chemical stability Possibility of hazardous reaction	EACTIVITY No information available. Stable under normal conditions. No information available.
	20181004		

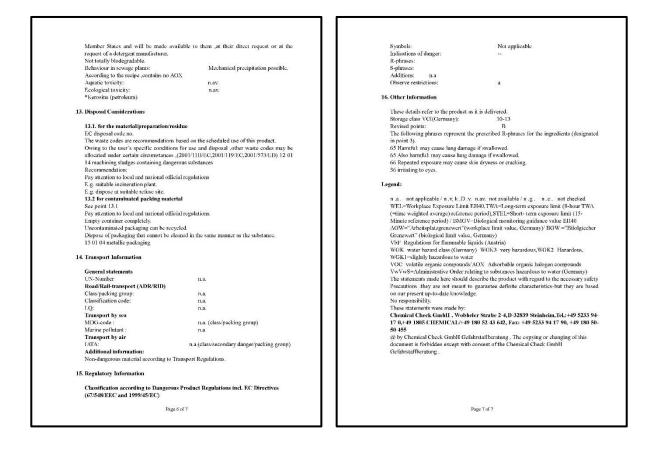
Incompatible Subdances or Mixtures :: Oxidating agents. Hazardisus decomposition products :: In combustion emits taxic gasses (GO, etc.). Section 11 - TOXICOLOGICAL INFORMATION Acute toxicity Oral :: AtEmic > 2000mg/kg Universa in the section of the secti	Conditions to avoid		Vapor of solvent is heavier than air, and likely to move over the ground or floor, possibly causing ignition at distant area.
Acute toxicity Oral A TEmic > 2000mg/kg University Dermal A TEmic > 2000mg/kg University Dermal A TEmic > 2000mg/kg University Inhalation Inhalation Inhalation Inhalation String Inhalation Inhalation Inhalation Inhalation Inhalation Inhalation Inhalation Inhalation Inhalation String Inhalation String String Response Sam of ingredients classified as Eye Gategory 2B ≥ 10% String Sam of ingredients classified as Eye Gategory 2B ≥ 10% Response Sam of ingredients classified as Eye Gategory 2B ≥ 10% Response Sam of ingredients classified as Eye Gategory 2B ≥ 10% Rest of dasification with convey hazeds of the known ingred orts : 10% dasified university Rest of dasification with convey hazeds of the known ingred orts : 10% dasified university Garainegenicity Rest of dasification with orony hazeds of the known ingred orts : 10% dasified University Garainegenicity Rest of dasification with orony hazeds of the known ingred orts : 10% dasified University Rest of dasified and with orony hazeds of the known ingred orts : 10% dasified University Rest of dasified and with orony hazeds of the known ingred orts : 10% dasified University Specific target organ toxicat/ Specific t			
Oral :: ATEmic > 2000mg/kg Dermal :: ATEmic > 2000mg/kg Dermal :: ATEmic > 2000mg/kg Unknown ingradents :: 30% :: Most > 2000mg/kg Inhalation :: Inhalation (regredents :: 40% Stim corresion/initiation :: Inhalation (regredents :: 30% Stim corresion/initiation :: Sum of ingredients :: admictation available Stim corresion/initiation :: Sum of ingredients :: admictation available Sterious eye damage /eye initiation :: Sum of ingredients :: admictation available Respiratory sensitization/Skin annutization :: Result of dassification with convey hazards of the known ingredients :: Not dassified auto-flow with convey hazards of the known ingredients :: Not dassified UV second :: Not dassified		NF	ORMATION
Demal Unknown ingredents: 30% Demal : ATEmix > 2000m;Ks Inhalation : Inhalation is Inhalation : Inhalation Statistic : Sum of ingredients classified as Skin Catagory 2 ≥ 10% Statistic : Sum of ingredients classified as Eye Category 28 ≥ 10% Statistic : Sum of ingredients classified as Eye Category 28 ≥ 10% Respiratory sensitization/Skin assistication with convey hazards of the known ingredients: 10% Result of dasification with convey hazards of the known ingredients: 10% dasified unknown ingredients: 10% Oarningsenicity : Result of dasification with oonvey hazards of the known ingredients: 10% dasified Unknown ingredients: 10% Optic : Result of dasification with oonvey hazards of the known ingredients: 10% No 15 ≤ Category 2 reproductive toxicant ≥ 3.0% Spacific target organ toxicity—Single : Category 2 reproductive toxicant ≥ 3.0%			
Demal :: ATEmix > 2000mg/kg Unknown ingredents :: 40% Inhalation Inhalation :: Inhalation (regredents :: 40% Inhalation :: Inhalation (regredents :: 40% Stin corrosion/initiation :: Sum of ingredents :: 40% Stin corrosion/initiation :: Sum of ingredents classified as Skin Catagory 2 ≥ 10% Serious eye damaga/eye initiation :: Sum of ingredents classified as Skin Catagory 2 ≥ 10% Respiratory sensitization/Skin annitization : Sum of ingredents classified as Eye Category 28 ≥ 10% Respiratory sensitization/Skin annitization : Result of dassification with convey hazards of the Mnoon ingredents :: 10% Anomi Ingredents :: 20% 0.1% ≤ Respiratory sensitizer < 10%	Oral	÷	
Inhalation : Inhalation (vapours) : ATEmic > 200mg/1 Underson ingredients: 30% Inhalation (dusts, rimsts) : No data available Skin corrosion/initiation : Sum of ingredients: alsolitic at skin Catagory 2 ≥ 10% Serious eye damage/eye initiation : Sum of ingredients: classified as Skin Catagory 2 ≥ 10% Respiratory sensitization/Skin sensitization : Sum of ingredients classified as Eye Catagory 2 ≥ 10% Respiratory sensitization/Skin sensitization : Result of dassification with convey hazards of the Innovn ingredients : Not dassified Underson ingredients : Not dassified Underson ingredients : 0.05% Germ cell matagenicity : Result of dassification with convey hazards of the Underson ingredients : Not dassified Underson ingredients : 0.05% Germ cell matagenicity : Result of dassification with convey hazards of the Underson ingredients : 0.05 Germ cell matagenicity : Result of dassification with convey hazards of the Underson ingredients : 0.05 Garcinogenicity : Result of dassification with convey hazards of the Underson ingredients : 0.05 Spacific target organ toxicity-Single : Catagory 2 reproductive toxicant < 3.0%	Dermal	1	ATEmix > 2000mg/kg
Skin corrosion/initiation : Sum of ingredients classified as Skin Catagory 2 ≥ 10%. Serious eye damage/sye initiation : Sum of ingredients classified as Eye Category 28 ≥ 10%. Respiratory sensitization/Skin sensitization : Sum of ingredients classified as Eye Category 28 ≥ 10%. Respiratory sensitization/Skin sensitization/Skin migredients: 10%. : Result of dasification with convey hazards of the known ingredients: 10%. Reserved of adaptication with convey hazards of the known ingredients: 10%. : Result of dasification with convey hazards of the known ingredients: 10% dasified unknown ingredients: 20% datagory 2 reproductive toxicant 2 %. Specific target organ toxicat/Single : Category 2 Target organ toxicat/ (respiratory tract initiation) ≥ 10%. Specific target organ toxicat/Cheppeted and unknown 2 %. : Category 1 Target organ toxicat (peripheral anerous ayatem) < 10%.	Inhalation	;	Inhalation (vapours) : ATEmix > 20.0mg/l
Respiratory sensitization/Skin sensitization 105 Respiratory sensitized of the known ingredents: 105 105 Germ cell matagenicity Result of dasaffication with convey hazards of the known ingredents: 105 Germ cell matagenicity Result of dasaffication with convey hazards of the known ingredents: 105 Germ cell matagenicity Result of dasaffication with convey hazards of the known ingredents: 105 Germ cell matagenicity Result of dasaffication with convey hazards of the known ingredents: 105 Carainogenicity Result of dasaffication with convey hazards of the known ingredents: 104 Carainogenicity Result of dasaffication with convey hazards of the known ingredents: 104 Carainogenicity Result of dasaffication with convey hazards of the known ingredents: 104 Carainogenicity Category 2 carainogen 10% Spacific target organ toxicity-Single Category 2 reproductive toxicant (socidar system) ≥ Category 2 larget organ toxicant (narotic effects) ≥ 20% Spacific target organ toxicity-Repeated 105 Spacific target organ toxicity-Repeated 105 Spacific target organ toxicity-Repeated 105 Category 3 larget organ toxicant (certral nervous ayatem) < 10%	Skin corrosion/irritation		
Respiratory sensitization/Skin : Result of classification with convey hazards of the moning order a:: No. sensitization : No. Sensitization No. Outproversing order a:: No. Sensitization No. Sensitization Outproversing order a:: No. Result of classification with convey hazards of the known ingredents:: No. Germ cell mutagenicity : Result of classification with convey hazards of the known ingredents:: No. Germ cell mutagenicity : Result of classification with convey hazards of the known ingredents:: No. Germ cell mutagenicity : Result of classification with convey hazards of the known ingredents:: No. Germ cell mutagenicity : Result of classification with convey hazards of the known ingredents:: No. Germogenicity : Result of classification with convey hazards of the known ingredents:: No. Specific target organ toxicity : Result of classification with convey hazards of the known ingredents:: No. Specific target organ toxicity : Category 2 reproductive toxicant ≥ 30.% Sectory 1 arget organ toxicant ≥ 30.% Specific targe	Serious eye damage/eye irritation	1	
knoon ingredents : Not dessified Unknown ingredents : 00% 0.1% ≤ Skin semitizer < 1.0%		1	Result of classification with convey hazards of the known ingredients : Not classified Unknown ingredients : 90%
Benomingredients: Not datasified Unknown ingredients: 70% Caroinogenioity Result of dasification with convey hazards of the known ingredients: 80% Reproductive toxicity Category 2 caroinogen < 10%			known ingredients : Not classified Unknown ingredients : 80%
Inconingradients: Not dessified University Endegray 2 carcinegen < 10%	Germ cell mutagenicity	1	known ingredients : Not classified
Specific target organ toxicaty-Single : Category 2 Target organ toxicant (vascular system) ≥ exposure 10% Category 3 Target organ toxicant (vascular system) ≥ post control Category 3 Target organ toxicant (rarootic offects) ≥ 20% Specific target organ toxicant (respiratory tract initiation) ≥ 70% Category 1 Target organ toxicant (respiratory tract initiation) ≥ 70% Specific target organ toxicant (category 1 Target organ toxicant (central norvous system) < 10%	Carcinogenicity	3	known ingredients : Not classified Unknown ingredients : 80%
exposure 105 Category 3 Target organ toxicant (rarootic effects) ≥ 205 Category 3 Target organ toxicant (respiratory tract initiation) ≥ 205 1.05 ≤ Category 1 Target organ toxicant (central norvous system) < 105 1.05 ≤ Category 1 Target organ toxicant (central norvous system) < 105 Category 2 Target organ toxicant (beiropheral norvous system) < 2 Target organ toxicant (beiropheral	Reproductive toxicity	3	Category 2 reproductive toxicant ≥ 3.0%
Category 3 Target organ toxicant (narcotic effects) ≥ 205 Category 3 Target organ toxicant (respiratory tract initiation) ≥ argst category 3 Target organ toxicant (respiratory tract initiation) ≥ argst initiation) ≥ argst initiation) ≥ argst initiation) ≥ argst initiation) ≥ argst category 1 Target organ toxicant (seripheral nervous system) < 105 Category 2 Target organ toxicant (blood) ≥ 105		в	
initation) ≥ 20% Specific target organ toxicity-Repeated exposure 1.0% ≤ Octacyry 11 Target organ toxicant (central norvous system) < 10% 1.0% ≤ Calcgory 11 arget organ toxicant (broinheral norvous system) < 10% Category 2 Target organ toxicant (blood) ≥ 10%	0.000		Category 3 Target organ toxicant (narcotic effects) ≧
exposure nervous system) < 10% 1.0% ≦ Gategory 1 Target organ toxicant (peripheral nervous system) < 10% Gategory 7 Target organ toxicant (blood) ≧ 10%			
nervous system) < 10% Category 2 Target organ toxicant (blood) ≧ 10%		1	nervous system) < 10%
			nervous system) < 10%
	Aspiration hazard	1	

		8/9
Acute toxicity to the aquatic environment	: Sum of ingredients classified as Acute 1 \times M \geqq 25%	
Chronic toxicity to the aquatic environment	: Sum of ingredients classified as (M × 100 × Chronic 1)+(10 × Chronic 2)+Chronic 3 > ≥25%	
Ecotoxicity	: No information available	
Hazardous to the ozone layer	No data available	
Other data	Dangerous for the environment if discharged into watercourses.	
Section 13 - DISPOSAL CONSI	DERATIONS	—
Residual Waste	If you would like to dispose of this chemical, you shoul properly dispose of this by yourself or ask qualified specific agents dispose of this according to related legislations and local regulations. If you would like to as the agents dispose of this chemical, you should provid sufficient information on dangerousness and hazard of this chemical.	sk le
Contaminated Container and Packaging	i: Container should be recycled after cleaning or if you would like to dispose of container of this chemical, yo should properly dispose of this by yourself or ask qualified specific agents dispose of this according to related legislations and local regulations. If you would like to ask the agents dispose of this container, you should provide sufficient information on diagreousness and hazard of this chemical in this container and	
	information on ingredient and notice of container.	
Section 14 - TRANSPORT INFO		_
International Regulations	RMATION	_
International Regulations Regulatory Information by Sea	RMATION : Conform to the provisions of IMO.	_
International Regulations Regulatory Information by Sea UN No.	RMATION : Conform to the provisions of IMO. : 1133	
International Regulations Regulatory Information by Sea	RMATION : Conform to the provisions of IMO. : 1133 ADHESVES	
International Regulations Regulatory Information by Sea UN No. Proper Shipping Name	RMATION : Conform to the provisions of IMO. : 1133	
International Regulations Regulatory Information by Sea UN No. Proper Shipping Name Class	RMATION : Conform to the provisions of IMO. : 1133 ADHESIVES : 3	
International Regulations Regulatory Information by Sea UN No. Proper Shipping Name Class Packing Group	RMATION : Conform to the provisions of IMO. : 1133 ADHESVES : 3 : II	_
International Regulations Regulatory Information by Sea UN No. Propor Shipping Name Class Class Marine Politant Transport in bulk according to MARPOL 27/8 Annex II. and the IBC code Regulatory Information by Air	RMATION : Conform to the provisions of IMO. : 1133 ADHESIVES : I : applicable Not applicable : Conform to the provisions of ICAO//ATA.	_
Internetional Regulations Regulation Information by Sea United Technologies and State Class Proper Shipping Name Class Pashing Group Marine Polutant Transport In buck seconding to MARPOL 73/78/Annex II and the IBC code Regulatory Information by Air UN Ne.	RMATION : Conform to the provisions of IMO. : 1133 ADHESVES : 3 : II : applicable : Conform to the provisions of ICAO/IATA. : 1133	-
International Regulations Regulatory Information by Sea UN No. Propor Shipping Name Class Daving Group Marine Politant Transport in bulk according to MARPICU 27/8 Annex II. and the IBC code Regulatory Information by Air UN No. Proper Shipping Name	RMATION Conform to the provisions of IMO. 133 ADHESIVES a applicable conform to the provisions of ICAO/IATA. 1133 ADHESIVES	_
Internetional Regulations Regulatory Information by Sea United Shipping Name Class Paraking Group Marine Polutant Transport In bulk socording to MARPOL 73/78,Annex II,and the IBC code Regulatory Information by Air UN No. Proper Shipping Name Class	RMATION : Conform to the provisions of IMO. : 1133 ADHESVES : II : applicable : Conform to the provisions of ICAO/IATA. : 1133 ADHESVES : 3	_
International Regulations Regulatory Information by Sea UN No. Proper Shipping Name Class Packing Group Marine Follutant Transport in bulk according to MARPOL 127/BAnnex II and the IBC code Regulatory Information by Air UN No. Proper Shipping Name Class Packing Group	RMATION Conform to the provisions of IMO. 1133 AD-ESIVES and and an analysis of IMO. applicable Conform to the provisions of ICAO/IATA. 1133 AD-ESIVES 3 II	
Internetional Regulations Regulatory Information by Sea Proper Shipping Name Class Packing Group Marine Polutant Transport In bulk according to MARPOL 73/78Annex II.and the IBC code Regulatory Information by Air UN No. Proper Shipping Name Class	RMATION : Conform to the provisions of IMO. : 1133 ADHESVES : II : applicable : Conform to the provisions of ICAO/IATA. : 1133 ADHESVES : 3	
International Regulations Regulatory Information by Sea UN No. Propor Shipping Name Class Pashing Group Marine Politant Transport in bulk according to MARPOL 127/BArnex II and the IBC coole Regulatory Information by Air UN No. Proper Shipping Name Class Pashing Group	RMATION Conform to the provisions of IMO. 1133 ADHESVES 3 III applicable Conform to the provisions of ICAO/IATA. 1133 ADHESVES 3 III Prease refer to "Section 7" in detail. Under leading_containore must be carrolily handled to prevent damage of containers and must be fixed them	

		No.1407024MJ
Section 15 - REGULATORY	INFORMATION	物質安全特性表(MSDS)
	to this substance in your country or region should be examined	1. Identification of the substance/preparation and of the company/undertaking
Section 16 - OTHER INFOR!	MATION	Identification of the substance or preparation AUTOSOL@Edel-Chromglanz/Metal Polish
Where to make contact Reference Formaldehyde emission grade NOTICE : This SDS was mede	 IPlease refer to "Section 1" in detail. Hexard communication of chemicals based on GIIS Labelling and Safety Data Sheet (SDS) (JIS (JAPANESE INUUSITIAL STANDARD) Z 7253:2012). Clausification of chemicals on "Globally Hummonized System of Classification and Labelang of Chemical (GHS)" (JISJAPANESE INDUSTRIAL STANDARD) Z 7252:2014). GHS Classification Guidance for Enterprises (July, 2013. "Ministry of Economy. Trade and Industry in JAPAN). JJS F★★★(JAPANESE INDUSTRIAL STANDARD) : A5549) a ta se finglith translated version of the SDS based on the 	Use of the substance/preparation Cleaning and care product for metal surface (金属栎充膏) Company/undertaking lademilification Dursob-Fabriki. Onto Durst Gmbil&Co. KGMatrinstrabe 22.D42655 Solingen Telephone + 400(2112-2718-67ax+40)(02122-208795 eMail:Infin@autosol.de Home page:www.autosol.de E-mail address of the compelent person:info@chemical-check.de, <u>k.eshurtuwek/@chemical-check.de</u> . Emergency telephone Advisory office in case of polsoning: Tel
Japanese laws and regulation. It	herefore, it was not applicable to the domestic distribution in	Tel.+49(0)212-2718-0(8.00h-16.00h) 2. Hazards identification To people See point 11 and 15. Preparation is not classified as hazardous in the sense of directive 1999/45/BC. The following may occur. Repeated exposure may cause skin dryness or cracking. To the environment See point 12. Regulation(EC)No 648/2004 15% or over but less than 30% Allphatic hydrocarbons Soap Less than 5% Anionic surfactants Chemical name <u>Chemical name Chemical name Registration number (ECHA) DNEL PNEC</u>
		Tel.+49(0)212-2718-0(& 00h-16.00h) 2. Hazards identification To people See point 11 and 15. Preparation is not classified as hazardous in the sense of directive 1999/45/EC. The following may occur. Repeated exposure may cause skin dryness or cracking. To the environment See point 12. Regulation(EC)No 648/2004 15% or over but less than 30% Alphatic hydrocarbons Soap Less than 5% Anionic surfactants Chemical name Contert% Symbol Represe

			6.1 Personal precautions	
10	20 20 (19.1		Ensure sufficient supply of air.	
Castor oil, sulfated, sodium salt			Avoid inhalation, end contact with eyes or skin.	
1-5 Xi	36 2	169-123-7	If applicable, caution-risk of slipping.	
CAS 68187-76-8			6.2 Environmental precautions	
For complete wording of the R-phra	uses refer to point 16.		If leakage occurs, dam up.	
			Do not pour down the drain undiluted.	
4. First-Aid Measures			Prevent surface and ground-water infiltration, as well as ground penetration	tion.
			6.3 Methods for cleaning up	
4.1 Inhalation			Collect mechanically and dispose of according to point13.	
Remove person from danger ares.				
Supply person with fresh air and co	nsult doctor according to sympton	ns.	7. Handling and Storage	
4.2 Eye contact		6175 N.C.	7 I Handler	
Wash thoroughly for several minute	es using copious water,Seek medic	al help if necessary.	7.1 Handling Tips for safe handling:	
Keep Data Sheet available		11	See point 6.1	
4.3 Skin contact			Ensure good ventilation.	
Wash thoroughly with soap as immediately. If skin irritation occurs		tanniated clothing	Avoid long lasting or intensive contact with skin.	
4.4 Ingestion	(redness etc.).consult doctor.		Wash hands before breaks and at end of work.	
4.4 Ingestion Rinse the mouth thoroughly with w	of av		Eating, drinking, smoking, as well as food-storage, is prohibited in work-ro	k-room.
Call doctor immediately-have Date			General hygicne measures for the handling of chemicals are applicable.	
Do not induce vomiting.	incer avaname.		Observe directions on label and instructions for use.	
4.5 Special resources necessary fo	r first aid		7.2 Storage	
n.c.			Requirements for storage rooms and containers:	
			Not to be stored in gangways or stair wells.	
5. Fire-Fighting Measures			Store product closed and only in original packing.	
			Suitable container,	
5.1 Suitable extinguishing media			Aluminium	
Foam			Sheet metal	
CO2			Special storage conditions:	
Sand			See point 10	
Dry extinguisher			Store at room temperature.	
Water jet spray				
5.2 Extinguishing media which sh	all not be used for safety reason	s	8. Exposure Controls/Personal Protection	
High volume water jet		1.085	8.1 Exposure limit values	
5.3 Special exposure hazards aris		ration		nt%10-<50
Itself, combustion products a			WEL-TWA:100mg/m ² (AGW) WEL-STEL:2(11)(AGW)	III:010-~.50
In case of fire the following can de	relop:			information:-
Oxides of carbon Toxic pyrolysis products .		11	Usaday	nitor mation:+
5.4 Special protective equipment	fon fins fighters		Chemical Name Aluminium oxide Content%	nt94+
5.4 Special protective equipment In case of fire and/or explosion do i			WEL-TWA: 10mg/m [*] (total inhal,dust), WEL-STEL:	nr0;
Protective respirator with independ		11	4mg/m ² (resp.dust)(aluminium oxides)	
5.5 Further information	and and all the second s	11	BMGV: Other information:	
Dispose of contaminated extinction	water according to official regula	tions	WEL-TWA-Workplace Exposure Limit-Long-term exposure limit (8-hot	hour TWA(-)
			weighted average)reference period)EH40.AGW "Arbeitsplatzgrenzwer	
6. Accidental Release Measures		11	limit value, Germany). I WEL-STEL-Workplace Exposure limit-Short- to	
			limit (15-minute reference period).IBMGV=Biological monitoring gu	
Refer to point 13, and for personal	protection refer to point 8.		EH40.BGW " Biologischer Grenzwert " (biological limit value "Ger	
- r		11		

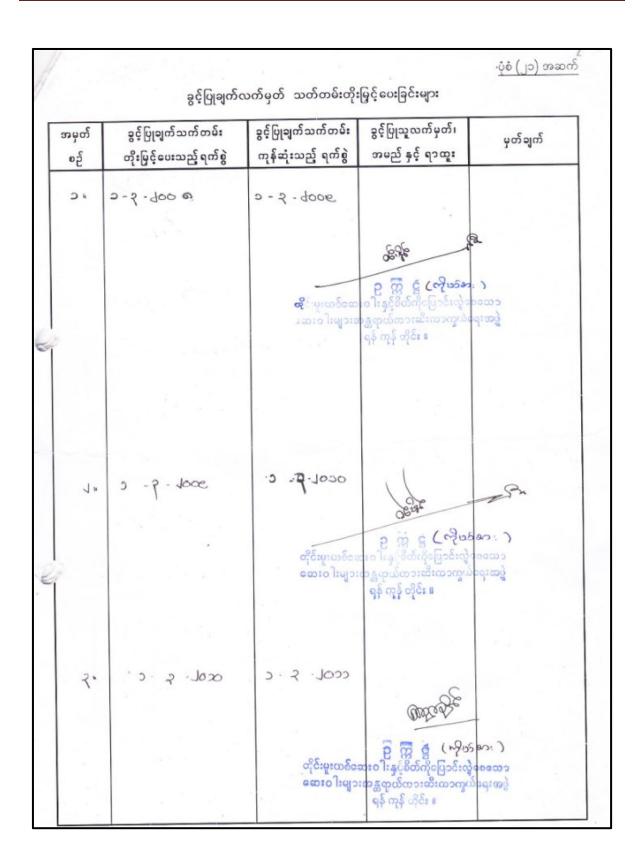
	Page 4 of 7	Page	of 7
Boiling point/boiling range(it the disposal of the competent authorities of
pH-value undiluted: 10% pH-value:	9.5 n.a.		is preparation complies (comply)with Regulation (F.C) No.648/2004 on detergents.
Odour:	Ammonie	Persistence and degradability:	An encoder and the second s
Colour :	White	Self classification:	Yes (VwVwS)
Physical state:	Paste	Water hazerd class (Germany):	2
9. Physical and Chemical Pro	perties	12. Ecological Information	
n.av.	I I	Repeated exposure may cause skin dryn	ess or cracking.
8.2.2 Environmental expos	ure controls	The following may occur.	
	on the protective glove manufacturer and must be observed.	Classification according to calculation p	rocedure.
	ted before use. The exact breakthrough time of the glove	Further information	
	the resistance of glove materials cannot be calculated in	Narcosis:	n.c.
	m manufacturer to manufacturer.	Reproductive toxicity:	n.c.
	e depends not only on the material but also on other quality	Mutagenleity:	n.c.
permeation rates and degrad.		Carcinogenleity :	n.c.
	naterial must be made taking the breakthrough times ,	Sensitization :	n.e.
	d from glove manufacturer's indications.	Delayed and chronic effects	
information on the ingredien		Eye contact:	n.av.
	ons according to the best available knowledge and	Skin contact,LD50 rat dermal(mg/kg):	n.av.
	ind protection-No tests have been performed.	Inhalation ,LC50 rat inhal.(mg/l/4h):	n.av.
	garments)	Ingestion,LD50 rat oral (mg/kg):	n.av.
	EN 344, lingsleeved protective working	Acute toxicity and immediate effects	the second se
Skin protection:	Protective working garments(e.g. safety shoes		
	es with side protection (EN 166).	11. Toxicological Information	
With danger of contact with		11 Tester Laboration and	
		no accomposition when used as directed	
Free protection:	Incided. Normally not necessary.	No decomposition when used as directe	4
Protective hand cream recon		See point 5.3	
Protective nitrite gloves (EN	1665	Hazardous decomposition products	
Recommended		No dangerous reactions are known.	
Hand protection:	tions in reduction of all theme	See point7	
	tions for respiratory protection equipment.	Materials to avoid	2
Filter A2P2 (EN 141)		Stable when handled and stored correct	v
If OES or MEL is exceeded		See point7	
Respiratory protection:	Normally not necessary.	Conditions to avoid	
Keep away from food, drink		, una reactivity	
Wash hands before breaks ar		10. Stability and Reactivity	
	the handling of chemicals are applicable .		
	rmissible exposure values are listed here .		7mm2/s/40°C
suitable breathing protection		Viscosity:	1500-2000 mPas/20°C DIN 53 211.>
	intain the concentration under the WEL or AGW values,	Water solubility:	<<10%
Ensure good ventilation. Thi	s can be achieved by local suction or general air extraction.	Density (g/ml):	1.26
8.2.1 Occupational exposur	re controls	Product is not explosive	
8.2 Exposure controls	501 - 2010-3310	Maximum limit of explosion:	n.a.
January 2006 with the goal o	f revision.	Minimum limit of explosion:	n.a.
	is substance is repealed through the TRGS 900(Germany) of	Oxidising properties:	No
	of causing cancer and/or heritable genetic damage.	Flash point(°C):	> 100
	of causing occupational asthma. Sk =Can be absorbed	Melting point/melting range("C):	n.av.

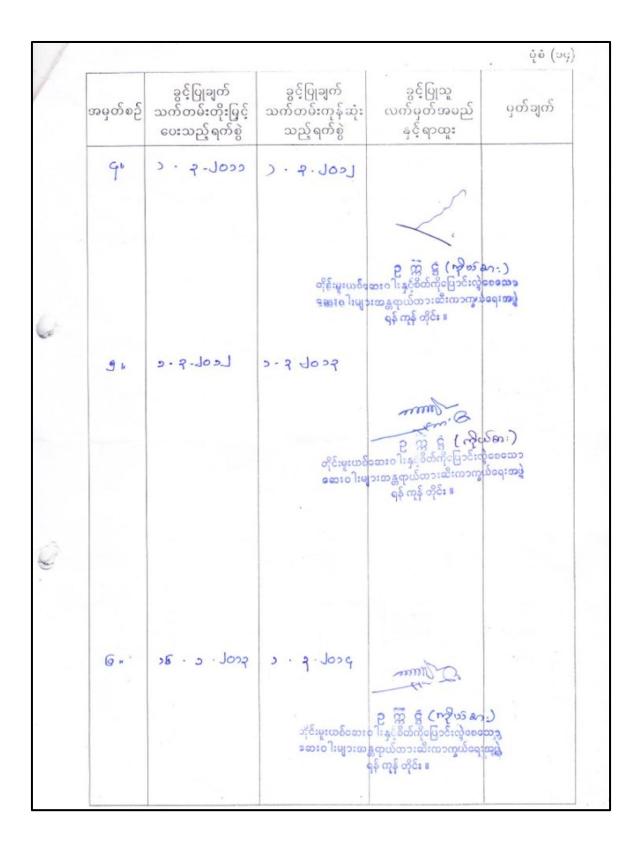


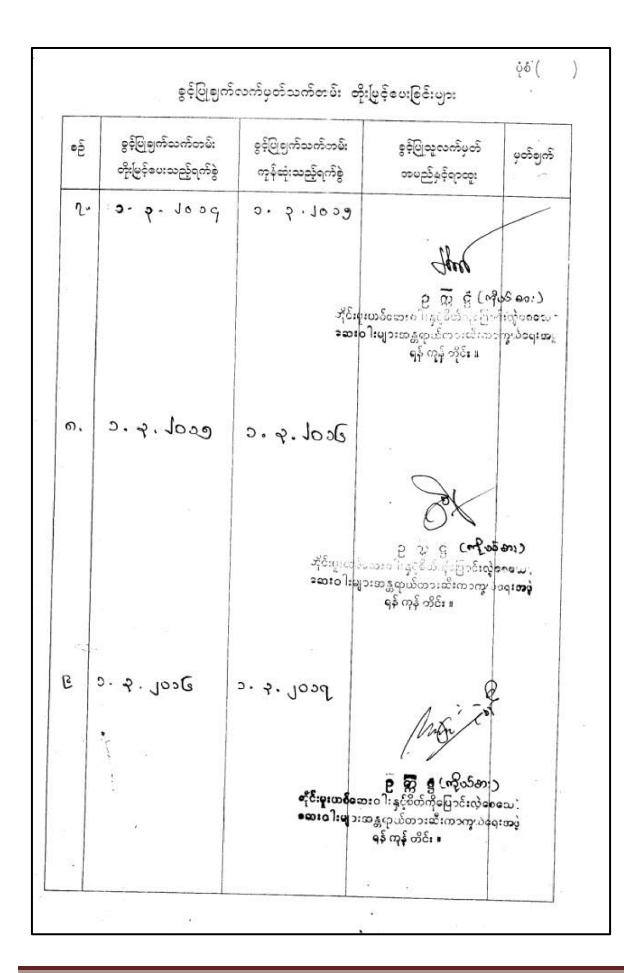
							ု ပုံစံ(
			ပြသ်ထောင်	စုမြန်မာနိုင်ငံစ	က်အစီးစ		. יַרָּטּ(
				ဗိုဌိမှဝေနိုင်ငံ ထဲရေးဝန်ကြီး	and the second second second second		
		မးယစ်ဒေ	မင စး၀ါးနှင့်စိတ်ကို		-		<u>.</u>
		2.0000		ပျောင်းလစေနေ ကာကွယ်ရေးဗ		32gaptu	မိတ္တူမှန်
-			07%80.	ကာကွယရေပ	0,028		0.151
1.000 19.00		ພິລິຄ	ယ်၊ တိုင်း မူးယမ်	မိသေးပါးနှင့်စိတ်	ာကိုးကိုးကိုးကိုးကိုးကိုးကိုးကိုးကိုးကိုး	0.000	
			ဆး ၀ဥ၀း မူးထ ဆေး၀ါးများအန္တ				
		5 12		ရာထင်ာားဆက ၇န် ပြည်နယ်၊		55 C	
	~88	•••••6••••	ဘုပစ္စည်း သိုတ				
	ယန	ະສູໂດຄາດ	ဟုံပစ္စည်း သုံး		းခြင်း လုပ်ငန	းလုပ်ကိုင်ရန	
			,	ခွင့်ပြုချက် ်	•		
		a / 1000		နည်းဥပဒေ-၃၆	9	C .	
şç	မြိုချက်အမှတ်၊			0 00 0		ရက်စွဲ၊ <u></u> ာ	
						စသော ဆေးဝါ	
	ဆီးကာကွယ်ရေး				A.S		
	S. 11 S. S. C. S. C. S.	icor non	ດ ເວົ້າທີ່	<u>ນກະຕິ ຣ</u> ລິນວດເ	ဒေ ၁၆ အရ ေ	တာက်ပါသမ်ငန်	
	၇ ပစ္စည်းကြီးကြပ်					အာလာဝင်ပုံပင်န	းဌာန၊ ကုမ္ပ
	အစည်း၊ ပုဂ္ဂိုလ်ဒ	အား ခွင့်ဖြ	ြှ ချက်ကို ထုတ်	ပေးလိုက်သည်-		. S	
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အဖွဲ့ ၁။ Mr. စက် ၂။ အ မှတ် စဉ်	အစည်း၊ ပုဂ္ဂိုလ်း ခွင့်ပြုချက်ရရှိ Yuzo Asano မှုဇုန်၊ မင်္ဂလာဒုံမြိ သိုလှောင်ထိန် အမျိုးအမည် (ဓါတုအမည်)	ကား ခွင့်[သည့် လု (Myan ရှိ နယ်၊ ရ န်းသိမ်းရန် တံဆိပ် အမှတ်	မြဲချက်ကို ထုတ်ဖ ပ်ငန်း၊ ဌာန၊ ကု mar Asia O န်ကုန်မြို့။ ဖုန်း နဲ ခွင့်ပြုသည့် ထိ ပုံသဏ္ဌာန် (အရည်၊အခဲ၊	ပေးလိုက်သည်- မွဏီ၊ အဖွဲ့အစ ptical Interr ၄၂၀၀၉၂၈၁ ဒိန်းချပ်ဓာတုပစ္စ ထုပ် ပိုးပုံ အထုပ်အရေ အတွက်	ည်း၊ ပုဂ္ဂိုလ်၏ း aational Co., သိုးများ တစ်ယူနစ် အလေးချိန်	အမည်နှင့်လိပ်စာ Ltd.) မ/အေ- စုစုပေါင်း အလေးချိန်	, <u>-</u>
အဖွဲ့ ၁။ Mr. စက် ၂။ အ မှတ် စဉ်	အစည်း၊ ပုဂ္ဂိုလ်း ခွင့်ပြုချက်ရရှိ Yuzo Asano မှုဇုန်၊ မင်္ဂလာဒုံမြိ သိုလှောင်ထိန် အမျိုးအမည် (ဓါတုအမည်)	ကား ခွင့်[သည့် လု (Myan ရှိ နယ်၊ ရ န်းသိမ်းရန် တံဆိပ် အမှတ်	ပြုံချက်ကို ထုတ်ဖ ပ်ငန်း၊ ဌာန၊ ကု mar Asia O န်ကုန်မြို့။ ဖုန်း နဲ ခွင့်ပြုသည့် ထ ပုံသဏ္ဌာန် (အရည်၊အခဲ၊ အမှုန့်)	ပေးလိုက်သည်- မွဏီ၊ အဖွဲ့အစ ptical Interr ၄၂၀၀၉၂၈၁ ဒိန်းချပ်ဓာတုပစ္စ ထုပ် ပိုးပုံ အထုပ်အရေ အတွက်	ည်း၊ ပုဂ္ဂိုလ်၏ း aational Co., သိုးများ တစ်ယူနစ် အလေးချိန်	အမည်နှင့်လိပ်စာ Ltd.) မ/အေ- စုစုပေါင်း အလေးချိန် ပမာဏ ၂၀ တန်) ၂/၃၊ မဂ်လ
အဖွဲ့ ၁။ Mr. စက် ၂။ အ မှတ် စဉ်	အစည်း၊ ပုဂ္ဂိုလ်း ခွင့်ပြုချက်ရရှိ Yuzo Asano မှုဇုန်၊ မင်္ဂလာဒုံပြ သိုလှောင်ထိန် အမျိုးအမည် (ဓါတုအမည်) Acetone	ကား ခွင့်[သည့် လု (Myan ရှိ နယ်၊ ရ န်းသိမ်းရန် တံဆိပ် အမှတ်	မြဲချက်ကို ထုတ်ပ ပ်ငန်း၊ ဌာန၊ ကု mar Asia O န်ကုန်မြို့။ ဖုန်း နဲ ခွင့်ပြုသည့် ထ ပုံသဏ္ဌာန် (အရည်၊အခဲ၊ အမှုန့်) အရည်	ပေးလိုက်သည်- မွဏီ၊ အဖွဲ့ အစ ptical Interr ၄၂ဝဝ၉၂၈၁ ဒိန်းချပ်ဓာတုပစ္စ ဆုပ် ပိုးပုံ အထုပ်အရေ အတွက် ပေပါ	ည်း၊ ပုဂ္ဂိုလ်၏ း aational Co., သိုးများ တစ်ယူနစ် အလေးချိန်	အမည်နှင့်လိပ်စာ Ltd.) မ/အေ- စုစုပေါင်း အလေးချိန် ပမာဏ) ၂/၃၊ မဂ်လ
အဖွဲ့ ၁။ Mr. စက် ၂။ အ မှတ် စဉ်	အစည်း၊ ပုဂ္ဂိုလ်း ခွင့်ပြုချက်ရရှိ Yuzo Asano မှုဇုန်၊ မင်္ဂလာဒုံပြ သိုလှောင်ထိန် အမျိုးအမည် (ဓါတုအမည်) Acetone	ကား ခွင့်[သည့် လု (Myan ရှိ နယ်၊ ရ န်းသိမ်းရန် တံဆိပ် အမှတ်	မြဲချက်ကို ထုတ်ပ ပ်ငန်း၊ ဌာန၊ ကု mar Asia O န်ကုန်မြို့။ ဖုန်း နဲ ခွင့်ပြုသည့် ထ ပုံသဏ္ဌာန် (အရည်၊အခဲ၊ အမှုန့်) အရည်	ပေးလိုက်သည်- မွဏီ၊ အဖွဲ့ အစ ptical Interr ၄၂ဝဝ၉၂၈၁ ဒိန်းချပ်ဓာတုပစ္စ ဆုပ် ပိုးပုံ အထုပ်အရေ အတွက် ပေပါ	ည်း၊ ပုဂ္ဂိုလ်၏ း aational Co., သိုးများ တစ်ယူနစ် အလေးချိန်	အမည်နှင့်လိပ်စာ Ltd.) မ/အေ- စုစုပေါင်း အလေးချိန် ပမာဏ ၂၀ တန်) ၂/၃၊ မဂ်လ
အဖွဲ့ ၁။ Mr. စက် ၂။ အ မှတ် စဉ်	အစည်း၊ ပုဂ္ဂိုလ်း ခွင့်ပြုချက်ရရှိ Yuzo Asano မှုဇုန်၊ မင်္ဂလာဒုံပြ သိုလှောင်ထိန် အမျိုးအမည် (ဓါတုအမည်) Acetone	ကား ခွင့်[သည့် လု (Myan ရှိ နယ်၊ ရ န်းသိမ်းရန် တံဆိပ် အမှတ်	မြဲချက်ကို ထုတ်ပ ပ်ငန်း၊ ဌာန၊ ကု mar Asia O န်ကုန်မြို့။ ဖုန်း နဲ ခွင့်ပြုသည့် ထ ပုံသဏ္ဌာန် (အရည်၊အခဲ၊ အမှုန့်) အရည်	ပေးလိုက်သည်- မွဏီ၊ အဖွဲ့ အစ ptical Interr ၄၂ဝဝ၉၂၈၁ ဒိန်းချပ်ဓာတုပစ္စ ဆုပ် ပိုးပုံ အထုပ်အရေ အတွက် ပေပါ	ည်း၊ ပုဂ္ဂိုလ်၏ း aational Co., သိုးများ တစ်ယူနစ် အလေးချိန်	အမည်နှင့်လိပ်စာ Ltd.) မ/အေ- စုစုပေါင်း အလေးချိန် ပမာဏ ၂၀ တန်) ၂/၃၊ မဂ်လ
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အဖွဲ့ ၁။ Mr. စက် ၂။ အ မှတ် စဉ်	အစည်း၊ ပုဂ္ဂိုလ်း ခွင့်ပြုချက်ရရှိ Yuzo Asano မှုဇုန်၊ မင်္ဂလာဒုံပြ သိုလှောင်ထိန် အမျိုးအမည် (ဓါတုအမည်) Acetone	ကား ခွင့်[သည့် လု (Myan ရှိ နယ်၊ ရ န်းသိမ်းရန် တံဆိပ် အမှတ်	မြဲချက်ကို ထုတ်ပ ပ်ငန်း၊ ဌာန၊ ကု mar Asia O န်ကုန်မြို့။ ဖုန်း နဲ ခွင့်ပြုသည့် ထ ပုံသဏ္ဌာန် (အရည်၊အခဲ၊ အမှုန့်) အရည်	ပေးလိုက်သည်- မွဏီ၊ အဖွဲ့ အစ ptical Interr ၄၂ဝဝ၉၂၈၁ ဒိန်းချပ်ဓာတုပစ္စ ဆုပ် ပိုးပုံ အထုပ်အရေ အတွက် ပေပါ	ည်း၊ ပုဂ္ဂိုလ်၏ း aational Co., သိုးများ တစ်ယူနစ် အလေးချိန်	အမည်နှင့်လိပ်စာ Ltd.) မ/အေ- စုစုပေါင်း အလေးချိန် ပမာဏ ၂၀ တန်) ၂/၃၊ မဂ်လ
အဖွဲ့ ၁။ Mr. စက် ၂။ အ မှတ် စဉ်	အစည်း၊ ပုဂ္ဂိုလ်း ခွင့်ပြုချက်ရရှိ Yuzo Asano မှုဇုန်၊ မင်္ဂလာဒုံပြ သိုလှောင်ထိန် အမျိုးအမည် (ဓါတုအမည်) Acetone	ကား ခွင့်[သည့် လု (Myan ရှိ နယ်၊ ရ န်းသိမ်းရန် တံဆိပ် အမှတ်	မြဲချက်ကို ထုတ်ပ ပ်ငန်း၊ ဌာန၊ ကု mar Asia O န်ကုန်မြို့။ ဖုန်း နဲ ခွင့်ပြုသည့် ထ ပုံသဏ္ဌာန် (အရည်၊အခဲ၊ အမှုန့်) အရည်	ပေးလိုက်သည်- မွဏီ၊ အဖွဲ့ အစ ptical Interr ၄၂ဝဝ၉၂၈၁ ဒိန်းချပ်ဓာတုပစ္စ ဆုပ် ပိုးပုံ အထုပ်အရေ အတွက် ပေပါ	ည်း၊ ပုဂ္ဂိုလ်၏ း aational Co., သိုးများ တစ်ယူနစ် အလေးချိန်	အမည်နှင့်လိပ်စာ Ltd.) မ/အေ- စုစုပေါင်း အလေးချိန် ပမာဏ ၂၀ တန်) ၂/၃၊ မဂ်လ
အဖွဲ့ ၁။ Mr. စက် ၂။ အ မှတ် စဉ်	အစည်း၊ ပုဂ္ဂိုလ်း ခွင့်ပြုချက်ရရှိ Yuzo Asano မှုဇုန်၊ မင်္ဂလာဒုံပြ သိုလှောင်ထိန် အမျိုးအမည် (ဓါတုအမည်) Acetone	ကား ခွင့်[သည့် လု (Myan ရှိ နယ်၊ ရ န်းသိမ်းရန် တံဆိပ် အမှတ်	မြဲချက်ကို ထုတ်ပ ပ်ငန်း၊ ဌာန၊ ကု mar Asia O န်ကုန်မြို့။ ဖုန်း နဲ ခွင့်ပြုသည့် ထ ပုံသဏ္ဌာန် (အရည်၊အခဲ၊ အမှုန့်) အရည်	ပေးလိုက်သည်- မွဏီ၊ အဖွဲ့ အစ ptical Interr ၄၂ဝဝ၉၂၈၁ ဒိန်းချပ်ဓာတုပစ္စ ဆုပ် ပိုးပုံ အထုပ်အရေ အတွက် ပေပါ	ည်း၊ ပုဂ္ဂိုလ်၏ း aational Co., သိုးများ တစ်ယူနစ် အလေးချိန်	အမည်နှင့်လိပ်စာ Ltd.) မ/အေ- စုစုပေါင်း အလေးချိန် ပမာဏ ၂၀ တန်) ၂/၃၊ မဂ်လ

Appendix 11 Controlled Precursor Chemical Permit (Form 21)

သိုလှောင်ထိန်းသိမ်းမည့် သိုလှောင်ရုံ၊ အဆောက်အအုံ အမျိုးအစား၊ တည်နေရာ၊ လိပ်စာနှင့် အကျယ် Яġ Myanmar Asia Optical International Co.,Ltd. သွပ်မိုး၊ ကွန်ကရစ်ခင်း။ အဝန်း သိုလှောင်ရုံ၊ အဆောက်အအုံကို စီမံခန့်ခွဲသူ၊ မန်နေဂျာ၏ အမည်နှင့် လိပ်စာ Mr. Yuzo-Asano GII မ/အေ-၂/၃၊ မင်္ဂလာဒုံ စက်မှုဇုန်၊ မင်္ဂလာဒုံမြို့နယ်၊ ထိန်းချုပ်ဓာတုပစ္စည်းသိုလှောင်ထိန်းသိမ်းခြင်း ခွင့်ပြုချက်ရရှိသူက လိုက်နာရမည့် စည်းကမ်းချက် ງແ များ-(က) ခွင့်ပြုချက်ကို သိုလှောင်ထိန်းသိမ်းထားသည့်သိုလှောင်ရုံအဆောက်အအုံတွင် ခိုတ်ဆွဲထားရမည်။ (ခ) သိုလှောင်ထိန်းသိမ်းခြင်းလုပ်ငန်းနှင့်စပ်လျှဉ်း၍ လစဉ်မှတ်တမ်းကို ပုံစံ(၂၂)ဖြင့် ပြုစုထားရှိရမည်။ (ဂ) လစဉ်မှတ်တမ်းများကို (၃)လတစ်ကြိမ် စုစည်းပြီး ပုံစံ(၅)ဖြင့် ထိန်းချုပ်ဓာတ္ပစ္စည်းကြီးကြပ်ရေး ကော်မတီသို့ တင်ပြအစီရင်ခံပြီး မိတ္တူကို ပြည်နယ်၊ တိုင်း၊ ခရိုင်၊ မြို့နယ် မူးယစ်ဆေးဝါးနှင့် စိတ်ကိုပြောင်းလဲစေသော ဆေးဝါးများအန္တရာယ်တားဆီးကာကွယ်ရေးအဖွဲ့သို့ ပေးပို့ရမည်။ (ဃ) လစဉ်မှတ်တမ်းများ (၃)လတစ်ကြိမ် အစီရင်ခံစာများ၊ ပြေစာဘောက်ချာများ၊ စာရင်းဇယားများ ကို အနည်းဆုံး၂ နှစ်အထိ ထိန်းသိမ်းထားရှိရမည်။ (c) ထိန်းချုပ်ဓာတုပစ္စည်းများကို တရားမဝင်သော လမ်းကြောင်းသို့ပြောင်းလဲပြီးအသုံးပြုခြင်း မရှိစေရန် အထူးဂရုပြု၍ သိုလှောင်ထိန်းသိမ်းထားရမည်။ (စ) သိုလှောင်ထားရှိရာတွင် အကြောင်းတစ်ခုခုကြောင့်ပျက်စီးခြင်း၊ ပျှောက်ဆုံးခြင်း၊ လိုအပ်သည် ထက်ပို၍ လျော့နည်းခြင်းဖြစ်ပါက ချက်ချင်း ထိန်းချုပ်ဓာတုပစ္စည်းကြီးကြပ်ရေးကော်မတီနှင့် သက်ဆိုင်ရာ ပြည်နယ်၊ တိုင်း၊ ခရိုင်၊ မြို့နယ် မူးယစ်ဆေးဝါးနှင့်စိတ်ကိုပြောင်းလဲစေသောဆေးဝါး များအန္တရာယ်တားဆီးကာကွယ်ရေးအဖွဲ့များသို့ သတင်းပို့ရမည်။ မူးယစ်ဗဟိုအဖွဲ့ကဖြစ်စေ၊ ထိန်းချုပ်ဓာတုပစ္စည်းကြီးကြပ်ရေးကော်မတီကဖြစ်စေ အခါ (æ) အားလျှော်စွာသတ်မှတ်သော စည်းကမ်းချက်များကို လိုက်နာရမည်။ hige to နွန်းချုပ်ခါတ ဥက္ကဌ (**ကိုယ်တ**:) ပြည်နယ်၊ တိုင်း မူးယစ်ဆေးဝါးနှင့်စိတ်ကိုပြောင်းလဲစေသော D/2016/Drug(29) 4 ဆေး၀ါးများအန္တရာယ်တားဆီးကာကွယ်ရေးအဖွဲ့ ရန်ကုန် ပြည်နယ်၊ တိုင်း မလိုသည့် စာသားကိုဖျက်ရန်။ မတ်ချက်။



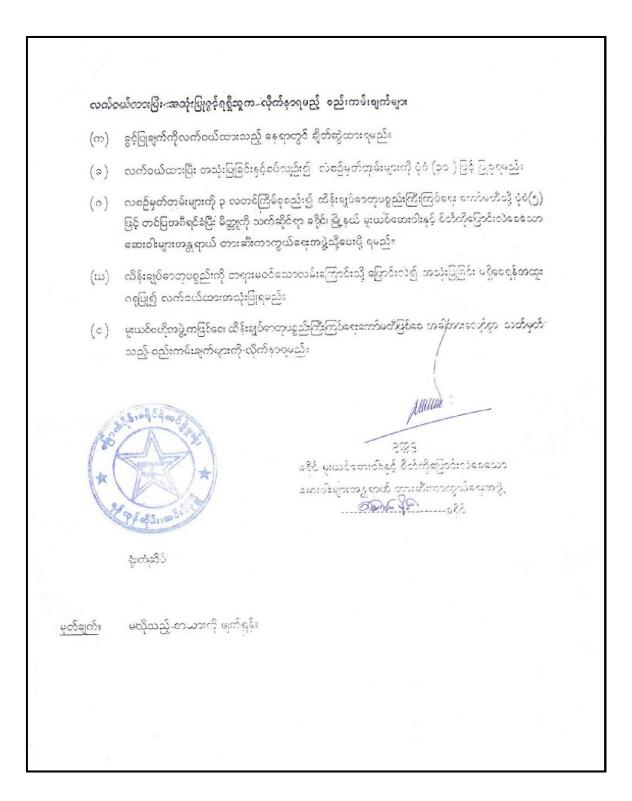




အ မှတ် စဉ်	ခွင့်ပြုချက်သက်တမ်း တိုးမြှင့်ပေးသည့် ရက်စွဲ	ခွင့်ပြုသက်တမ်း ကုန်ဆုံးသည့် ရက်စွဲ	ခွင့်ပြုသူလက်မှတ်၊ အမည်နှင့်ရာထူး	မှတ်ချက်
. oc	Dcol. 6.C	၁. ၃.၂၀၁၈	1.1.8	
	•	နင်းမှူး စစားဝ	ာစ်ဆေး၀ါးနှင့်စိတ်ကိုပြောင်းလဲ။ အျားဆန္တရာယ်တားဆီးကာကွယ်ရ ရှော် လူနီ လိုင်း ။	000
ວງ.	ວ, ຊ. Jດວຄ	o. 9. 100E	hinto est	
		နိုင်းမူးဝ ကိုင်းမူးဝ	ခြံ ကြံ ရွှေ (ကိုယ်စား စစ်ဆေးဝါးနှင့်စိတ်ကိုပြောင်းလဲ႔ များအန္တရာယ်တားဆီးကာကူယ်ရ ရှိန် ကျွန် တိုင်း၊ စိ) ^{ກແ} ລະ ຊາກອູ່
(t)			27	
ວຊະ	30 Jose	o- 5. 7070	OF OFFICE	
		48 • en	၉ ကြီ ရှိ းမူးထစ်ဆေးဝါးနှင့်စိတ်ကိုပြောင်း းဝါးများအန္တရာယ်တားဆီးကာက စန် ကုန် တိင်း ၊	လဲစေသေး ဒုပ်ရေးအဖွဲ
100		н 19 19		

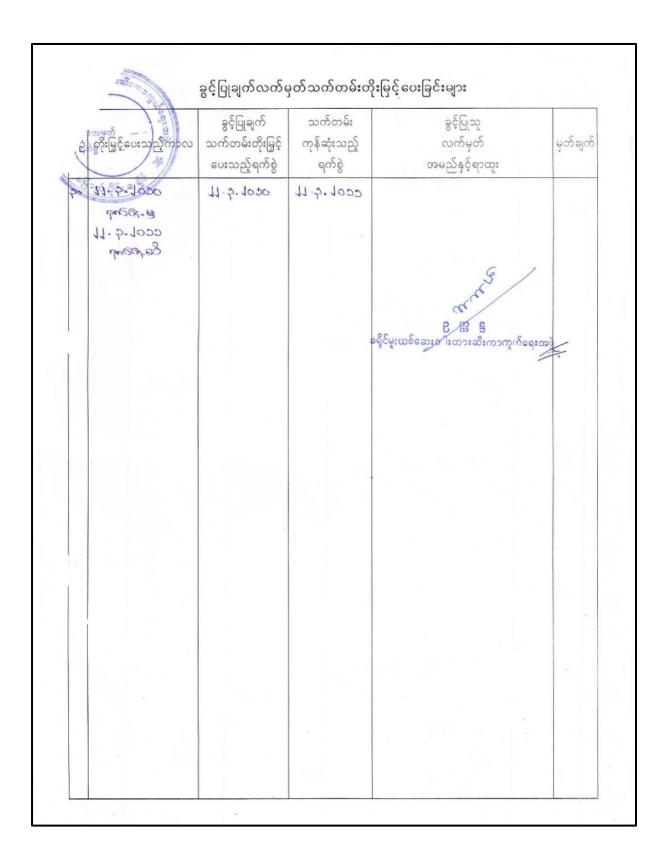
30 (10) ပြည်ထောင်စုခြန်မာနိုင်ငံတော်အမိုးရ ပြည်တဲ့ရေးဝန်ကြီးဌာန မူးယစ်အေးဝါးနှင့် စိတ်ကိုပြောင်းလံစေသောဆေးဝါးများအန္တရာယ် တားဆီးကာကွယ်ရေးဗဟိုအဖွဲ့ စရိုင်မှူးယစ်ဆေးဝါးနှင့် စိတ်ကိုပြောင်းလဲစေသော ဆေးဝါးများအညွှဲရာယ် တားဆီးကာဂွယ်ရေး ဗဟိုအဖွဲ့ ျှန်ကုန် မြောက်ပိုင်း ______ ထိန်းစျပ်တတ္ပစ္စည်းကို လက်ဝယ်ထားပြီး အသုံးပြုခြင်းအတွက် စွင့်ပြုစျက် (နည်းဥပဒေ ၄၆) ု ၂၀၀၀ ၂၄ ခါေ ခန့်၌ မူးယစ်ဆေးဝါးနှင့် စိတ်ကိုပြောင်းလဲစေသော ဆေးဝါးများ ဖာ္တရာယ်တားဆီးကာကွယ်ရေး ဖာပွဲသည့် ခွင့်ပြုချက် ရယူရန် လိုအပ်သော ထိန်းချွပ်ခာတုပစ္စည်းကို လက်ငယ်ထားပြီး အသုံးပြုခြင်း အတွက် ထိန်းချုပ်တတုပစ္စည်း ကြီးကြပ်ရေးဆိုင်ရာ နေ့ပ်းဥပဒေဖျား၏ နည်းဥပဒေ ၄၆ အရ အောက်ပါ လုပ်ငန်း၊ ဌာန၊ ကုမ္ပဏီ၊ တဖွဲ့ အစည်း၊ ပုံဂွိုလ်အား ဤခွင့်ပြုရက်ကို ထုတ်ပေးလိုက်သည် – ာ ခွင့်ပြုချက်ရရှိသည့် လုပ်ငန်း၊ ဌာန၊ ကုမ္ပကီ၊ အဖွဲ့တဲ့စည်း၊ ပုတ္တိလ်၏ အမည်၊ လိစ်အနှင့် အက်တွယ်ရန် ဗုန်း၊ တာိစ်၊ အီးမေးလ်အမှတ် — <u>Myannar Asia Optical International Co., Ltd., Mr., Wisewan Hau, Director</u> Plot No. A-2, 3 Mingalardon Industrial Park, Yanzon, Tel 951-639032, 33, 706972..... Fax 639034-35 လက်ဝယ်ထားပြီး စာသုံးပြဋ္ဌမိုးသော ထိန်းရုပ်ဓာတ္ပစ္စေည်းမှား jh အမိုးအမည် (တတုအင်္ညေ) တဲ့ဆိုင် ခံစာဌာဂန် တစ်တွနစ် စုစုပေါင်း အသုံးပြု မှတ်ချက် အပူတိ (အစည် အစေသင်နီ စာသေးရှိန် မသုတ်ချိန် မည့်လိမ္မ -တမှတ် cS ကာလာင္ ကာလာင္ (ဦးၾခးခ်ိဳက) လာလာ y Prefs ise Acetone 4MT 1. mino une Slue ign ophysi Ethyl Ether. 10MT 2. pose ser B.28.

Appendix 12 Controlled Precursor Chemical Permit (Form 28)

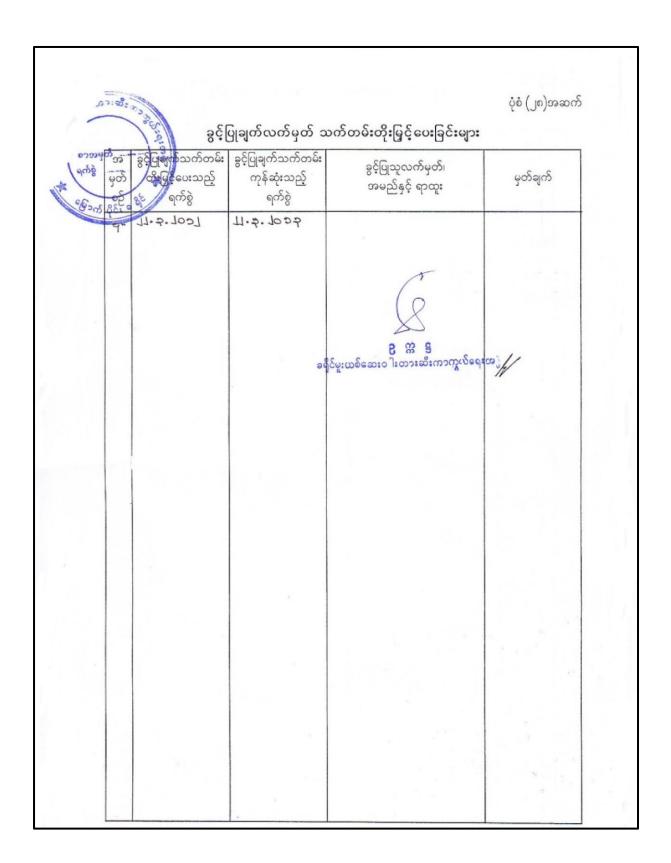


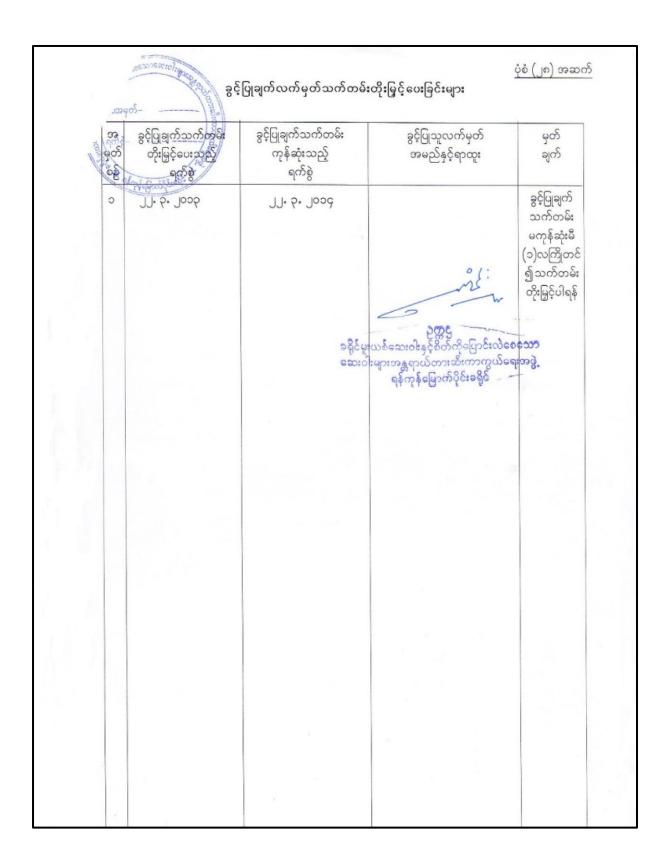
အ မှတ် စဉ်	ခွင့်ပြုချက်သက်တမ်း တိုးမြှင့်ပေးသည့် ရက်စွဲ	ခွင့်ပြုချက်သက်တမ်း ကုန်ဆုံးသည့်ရက်စွဲ	ခွင့်ပြုသူလက်မှတ် အမည်နှင့်ရာထူး	မှတ်ချက်
Ð	ore E. Joon	DE. 9. JOOB	ဥက္ကဌ ခရိုင်မူးယစ်ဆေးဝါးနှင့်စိတ်ကိုပြောင်းလဲစေသော ဆေးဝါးများအန္တရာယ်တားဆီးကာကွယ်ရေးအဖွဲ့	

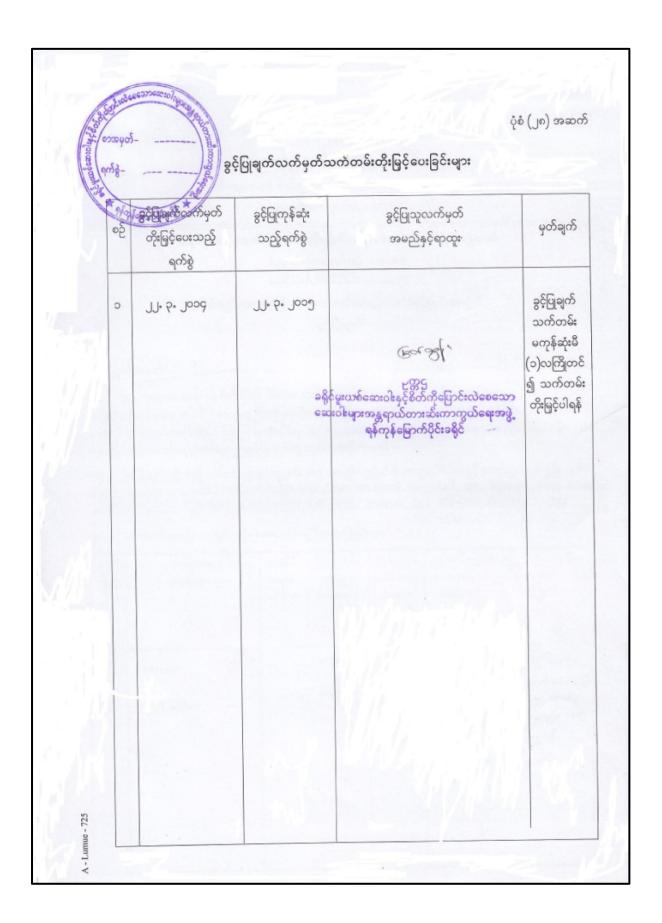
ාශා දේමා මේ මේ මේ මේ	တိုးမြှင့်ပေးသည့် တိုးမြှင့်ပေးသည့် တိုးမြှင့်ပေးသည့်	ခွင့်ပြုချက် သက်တမ်းတိုးမြှင့် ပေးသည့်ရက်စွဲ	သက်တမ်း ကုန်ဆုံးသည့် ရက်စွဲ	ခွင့်ပြသူ လက်မှတ်၊ အမည်နှင့် ရာထူး	မှတ်ချက်
lic	၂၃·၄·၂၀၀၉ ရက်နေ့မှ ၃·၄·၂၀၁၀ ရက်နေ့ထိ	J5.2.Joob	9.6.7000		
				ເພຣ໌ເລະເວ ໂເວາະເລືະກາງທະຈິດ	
			ခရိုင်မှူး	ອັສ ອິ ເພຍິຣລະວ ໂະຫວາະລຳກາວທຸເຈີຍ	କା ପ୍ର ହନ୍ତି,



ang			ပုံစံ (၂၈) အဆက် ခွင့်ပြုချက်လက်မှတ် သက်တမ်းတိုးမြှင့်ပေးခြင်းများ				
and	အ မတ်ရိုင် စဉ်	ခွင့်ပြချက်သက်တမ်း စ တိုးမြှင့်ပေးသည့် ရက်စွဲ	ခွင့်ပြုသက်တမ်း ကုန်ဆုံးသည့် ရက်စွဲ	ခွင့်ပြုသူ လက်မှတ်၊ အမည်နှင့် ရာထူး	မှတ်ချက်		
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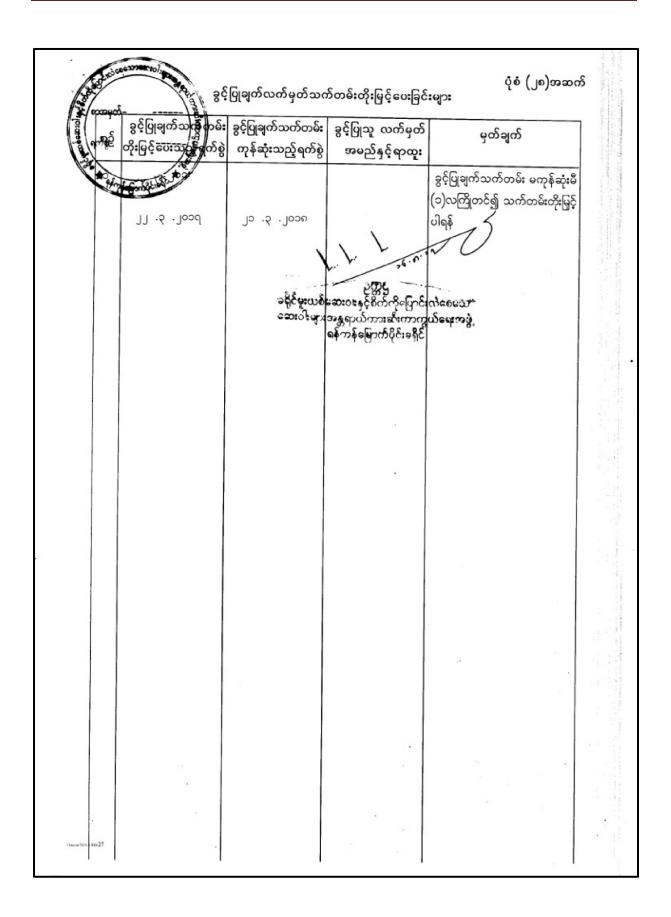




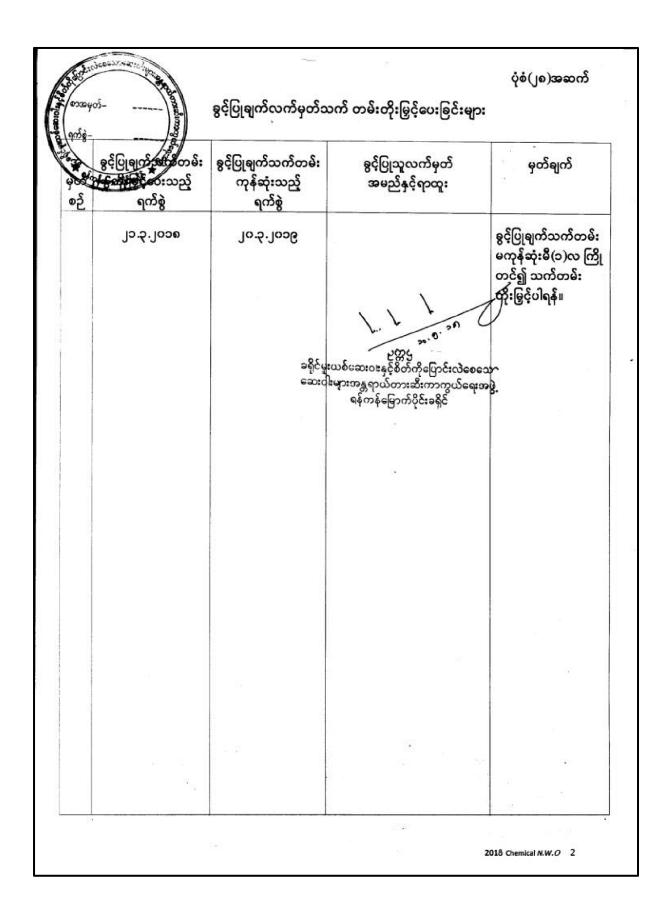


	ခွင့်ပြုချက်လက်မှတ်		နိုင်ပြုကုန်ဆုံး ခွင့်ပြုသူလက်မှတ်		C C
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				Care 38(1	၍သက်တမ်းတိုးမြင့်ပါရ
	-		ခရိုင်	မူးယစ်ဆေးဝါးနှင့်စိတ်ကိုပြောင်းလဲစေေ ခါးကာတာ	200
	5		600	ဝါးများအန္တရာယ်တားဆီးကာကွယ်ရေးဒ ရန်ကုန်မြောက်ပိုင်းခရိုင်	5 G.
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and the second	And And an and and and and and and and and an	ပြုချက်လက်မ	မှတ်သက်တမ်းတိုးမြင့်ပေးခြင်းများ	ပုံစံ (၂၈)အဆက်	
02	ွင့်ပြုချက်လက်မှတ်/ အမစေမှူသည် စာဒီပိ	င့်ပြုကုန်ဆုံး သည့်ရက်စွဲ	ခွင့်ပြုသူလက်မှတ် အမည်နှင့်ရာထူး	မှတ်ချက်	
C	βεοι.9.	Jə . 5. Josd	မကြေး ဗက္ကိန် ဗက္ကန်ခြောက်ပိုင်းခရိုင် ရန်ကုန်မြောက်ပိုင်းခရိုင်	ခွင့်ပြုချက်သက်တမ်း မကုန်ဆုံးမိ(၁)လကြိုတင် ၍သက်တမ်းတိုးမြင့်ပါရန် အ	
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အ မှတ် စဉ်	မိုးခြင့်သည် တိုးခြင့်ဆက်ညို ရက်နွဲ	စွင့်ပြုချက်သက် တမ်းကုန်ဆုံး သည့် ရက်စွဲ	ခွင့်ပြုသူလက်မှတ် အမည်နှင့်ရာထူး	မှတ်ရျက်
	၂၁.၃.၂၀၁၉	၂၀.၃.၂၀၂၀	55	စွင့်ပြုဈက်သက်တမ်း မကုန်ဆုံးမီ(၁)လ ကြိ တင်၍ သက်တမ်း တိုးမြှင့်ပါရန်။
			TAK	
			ဥက္ကဋ္ဌ(ကိုယ်စား) (အောင်ဇင်၊ ဆွေ့ခရိုင်အုပ်ချုပ်ရေးမှူး) ခရိုင်မူးယစ်ဆေးဝါးနှင့် စိတ်ကို	
			ပြောင်းလဲစေတတ်သော ဆေးဝါးများ အန္တရာယ်တားဆီး ကာကွယ်ရေးအဖွဲ့ ရန်ကုန်မြောက်ပိုင်းခရိုင်	
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Appendix 13 L-License for Petroleum Storage

Winstry of Mines Department of Mines. Fas & Phone.067409376 "L" - Licence "L" - Licence ICATTICLE 5 OF SCHEDULE 1 Licence to import dangerous petroleum and to store Petroleum in Installations Licence No. 221/1/722(B) L Licence is hereby to			The Republic of the Union of	Myanmar
Yes & Phone: 067409376 L' - Licence (ATTICLE 5 OF SCHEDULE 1) License to import dangerous petroleum and to store Petroleum in Installations .i.eence No. 221/1/722(B) L License is hereby to	F	MIN		
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(ARTICLE 5 OF SCHEDULE 1) License to import dangerous petroleum and to store Petroleum in Installations Licence No. 221/1/722(B) L Dated of February, 2 License is hereby to			Fax & Phone .067409376	
License to import dangerous petroleum and to store Petroleum in Installations License No. 221/1/722(B) L License is hereby to <u>Myanmar Asia Optical International Cas. Ltd.</u> valid only for mportation of <u>45,000</u> , Gallons of petroleum in the place described below and shown on the attached here to subject to the provisions to the Petroleum Act, 1934 and the rules made there under to the further condition to the attached of this license. This licence shall be renewable for <u>ang</u> year in the absence of contravention of the provision the Petroleum Act, 1934, or of the rules framed there under or of any condition of this licence. This license shall remain in force till the 31 st day of December 2014. Sr. Description 2. Non- Dangerous petroleum in bulk (H.S.D) 2. Non- Dangerous petroleum in bulk (H.S.D) 45,000 Uwin Htein Director General Chief Inspector of Explosives			"L" - Licence	
Licence No. 221/1/722(B) L Licence No. 221/1/722(B) L License is hereby to <u>Myanmar Asia Optical International Co. Itd</u> valid only for importation of <u>45,000</u> . Gallons of petroleum in the place described below and shown on the tatched here to subject to the provisions to the Petroleum Act, 1934 and the rules made there under to the further condition to the attached of this license. This licence shall be renewable for <u>and</u> year in the absence of contravention of the provision the Petroleum Act, 1934, or of the rules framed there under or of any condition of this licence. This license shall remain in force till the 31st day of December 2014 . $\frac{\overline{Sr}}{1} \frac{Description}{1} \frac{Dangerous petroleum in bulk (H.S.D)}{1} (15000 x 3)}$ $\frac{1}{10tal} 45,000$ With Hein Director General Chef Inspector of Explosives			(ARTICLE 5 OF SCHEDUL	E 1)
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Plan No. /221/Approval/2004 Date 26.1.2004	the Petroleu This	um A s lice s r. 1.	 Act, 1934, or of the rules framed there under or of a conse shall remain in force till the 31st day of December Description Dangerous petroleum in bulk Non- Dangerous petroleum in bulk (H.S.D) 	any condition of this licence. mber 2014. Capacity in Gallons - (15000 x 3) 45,000 UWin Htein Director General Chief Inspector of Explosives

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DESCRIPTION OF THE PLACE REFERRED TO ABOVE

The Licensed premises are situated <u>Plot A(2.3), Mingaladon, Township, Xangon, Region</u>, and consist of a gas-tight tank (tanks) of a capacity of <u>45,000</u>, gallons above ground.

N.B_ Petroleum Rule 107 requires that a copy of the conditions on the back of this license together with a copy of Rules 90 to 106 relating to storage of petroleum shall be exhibited in a conspicuous place in every licensed installation or storage shed. A copy of the above rules and of the conditions are issued free with this license for the above purpose.

This license is liable to be cancelled of the licensed premises when inspected are not found conforming to the description and conditions attached hereto and contravention of any of the rules and conditions under which this license is granted is also punishable with fine which may extend to five hundred kyats for a first offence and which may extend to two thousand kyat's for any subseque offence.

Date of renewal	Date of expiry	Signature of licensing authority
0 1 JAN 2015	31 DEC 2015	for Director Gener
0 1 JAN 2016	31 DEC 2016	for Director Gene
01 JAN 2017	31 DEC 2017	of the Contractor General
01 JAN 2018	31 DEC 2018	Director General
01 JAN 2019	3 1 DEC 2019	Director General
01 JAN 2020	31 DEC 2020	Director General
	5	221
	department of the second s	(Note- Conditions are attached)

Appendix 14 EI Permit

စက်မူဝန်ကြီးဌာန ရန်ကုန်တိုင်းဒေသကြီးစက်မှုကြီးကြပ်ရေးနှင့် စစ်ဆေးရေးဦးစီးဌာန လျှပ်စစ် – စစ်ဆေးရေး အမှတ်(၁၉၂)၊ ကမ္ဘာအေးဘုရားလမ်း၊ ဗဟန်းမြို့နယ်၊ ရန်ကုန်မြို့ လျှပ်စစ်ဓာတ်အားအသုံးပြုခြင်းဆိုင်ရာ အန္တရာယ်ကင်းရှင်းကြောင်းလက်မှတ် လက်မှတ်အမှတ်စဉ် EI/YD - ၀.မ.1 /10-2019 ၂၀၁၄ ခုနှစ် လျှပ်စစ်ဥပဒေ ပုဒ်မ ၃၂(ဃ) တွင် ပြဌာန်းချက်အရ လျှပ်စစ်ဓာတ်အား အသုံးပြုခြင်း လုပ်ငန်းကို စစ်ဆေးရာတွင် လျှပ်စစ်ဥပဒေ ဆိုင်ရာ လုပ်ထုံးလုပ်နည်းများနှင့် ကိုက်ညီကြောင်း စစ်ဆေး တွေ့ရှိရသဖြင့် အောက်ဖော်ပြပါ နေရာဒေသ၌ လျှပ်စစ်ဓာတ်အားအသုံးပြုခြင်း လုပ်ငန်းကို အန္တရာယ် ကင်းရှင်းကြောင်း လက်မှတ် ထုတ်ပေးလိုက်သည်-၁။ လျှပ်စစ်ဓာတ်အားအသုံးပြုခြင်း (က) သတ်မှတ်ဗို့အား ၄၀၀/၂၃၀ ဗို့ (ခ) လုပ်ငန်းအမျိုးအမည် မှန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်းလုပ်ငန်း (ဂ) ခွင့်ပြုဝန်အား 2681 HP + 1609 HP + 1609 HP + (1400 kVA x 5Nos + 1250 kVA x 3Nos+ 1000 kVA+ 550 kVA+ 160 kVA) Generator ။ နေရာဒေသ Mr Yuzo Asano အမှတ်(A-2 , A-3) မင်္ဂလာဒုံစက်မှုဇုန်၊ မင်္ဂလာဒုံမြို့နယ်။ ၃။ လက်မှတ်ထုတ်ပေးသည့်ရက် 0.00. Joog ၄။ လက်မှတ်ကုန်ဆုံးသည့်ရက် 7.00.000 (ကျောဘက်တွင် ဖော်ပြထားသော စည်ကမ်းချက်များကို လိုက်နာရပါမည်။) မတ်ချက်။ ရန်ကုန်တိုင်းဒေသကြီး လျှပ်စစ်စစ်ဆေးရေး

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် စက်မှဝန်ကြီးဌာန ရန်ကုန်တိုင်းဒေသကြီးစက်မွှကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန (လျှပ်စစ်စစ်ဆေးရေး) အမှတ်–၁၉၂ ၊ ကမ္ဘာအေးဘုရားလမ်း၊ ဗဟန်းမြို့နယ်၊ ရန်ကုန်မြို့ ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် နှစ်ပတ်လည်စစ်ဆေးခြင်း အကြောင်းအရာ။ အထက်အကြောင်းအရာပါကိစ္စနှင့်စပ်လျဉ်း၍ အောက်ဖော်ပြပါ ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် SII ကို (၂၀၁၉-၂၀၂၀) ခုဘဏ္ဍာရေးနှစ်အတွက် ဤတိုင်းလျှပ်စစ်စစ်ဆေးရေးဌာနမှ (၅. ၁၀. ၂၀၁၉)ရက်နေ့တွင် စစ်ဆေးခဲ့ပြီး ဖြစ်သည်။ လျှပ်ထုတ်စက် စစ်ဆေးခအတွက် ပေးသွင်းလာသော (၈. ၁၀. ၂၀၁၉) ရက်စွဲပါ ချလန်အမှတ် (၃၉) ကိုလည်း လက်ခံရရှိပြီးကြောင်း ပြန်ကြားအပ်ပါသည်။ (က) လျှပ်ထုတ်စက်ကေဗွီအေ 1000 kVA 230/400V (ခ) သတ်မတ်ဗိုအား (ဂ) လျှပ်ထုတ်စက်အမျိုးအစား <u>800 DF JC (CUMMINS)</u> (ဃ) လျှပ်ထုတ်စက်နံပါတ် C97A002424 (c) လျှပ်ထုတ်စက်တည်နေရာ အမှတ် (A-2, A-3) မင်္ဂလာဒုံစက်မှုဇုန်၊ မင်္ဂလာဒုံမြို့နယ်။ တိုင်းလျှပ်စစ်စစ်ဆေးရေးမျှး (ရန်ကုန်တိုင်းဒေသကြီး) Mr Yuzo Asano မှန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်း အမှတ်(A-2, A-3)၊ မင်္ဂလာဒုံစက်မှုဇုန်၊ မင်္ဂလာဒံ့မြို့နယ်။

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် စက်မှဝန်ကြီးဌာန ရန်ကုန်တိုင်းဒေသကြီးစက်မှုကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန (လုပ်စစ်စစ်ဆေးရေး) အမှတ်-၁၉၂ ၊ ကမ္ဘာအေးတုရားလမ်း၊ ဗဟန်းမြို့နယ်၊ ရန်ကုန်မြို့ အကြောင်းအရာ။ ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် နှစ်ပတ်လည်စစ်ဆေးခြင်း အထက်အကြောင်းအရာပါကိစ္စနှင့်စပ်လျဉ်း၍ အောက်ဖော်ပြပါ ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် SII ကို (၂၀၁၉-၂၀၂၀) ခုဘဏ္ဍာရေးနှစ်အတွက် ဤတိုင်းလျှပ်စစ်စစ်ဆေးရေးဌာနမှ (၅. ၁၀. ၂၀၁၉)ရက်နေ့တွင် စစ်ဆေးခဲ့ပြီး ဖြစ်သည်။ လျှပ်ထုတ်စက် စစ်ဆေးခအတွက် ပေးသွင်းလာသော (၈. ၁၀. ၂၀၁၉) ရက်စွဲပါ ချလန်အမှတ် (၉၆) ကိုလည်း လက်ခံရရှိပြီးကြောင်း ပြန်ကြားအပ်ပါသည်။ (က) လျှပ်ထုတ်စက်ကေဗွီအေ 1250 kVA (ခ) သတ်မှတ်ဗို့အား 230/400V (ဂ) လျှပ်ထုတ်စက်အမျိုးအစား (CUMMINS) (ဃ) လျှပ်ထုတ်စက်နံပါတ် 73698-317 (င) လျှပ်ထုတ်စက်တည်နေရာ .အမှတ်.(A-2, A-3)..... မင်္ဂလာခံ့စက်မှုဇုန်၊ မင်္ဂလာဒံ့မြို့နယ်။ တိုင်းလျှပ်စစ်စစ်ဆေးရေးမျှ (ရန်ကုန်တိုင်းဒေသကြီး) Mr Yuzo Asano မှန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်း အမှတ်(A-2, A-3)၊ မင်္ဂလာဒံ့စက်မှုဇုန်၊ မင်္ဂလာဒံမြို့နယ်။

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် စက်မှဝန်ကြီးဌာန ရန်ကုန်တိုင်းဒေသကြီးစက်မွှကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန (လျှပ်စစ်စစ်ထေးရေး) အမှတ်-၁၉၂ ၊ ကမ္ဘာအေးဘုရားလမ်း၊ ဗဟန်းမြို့နယ်၊ ရန်ကုန်မြို့ အကြောင်းအရာ။ ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် နှစ်ပတ်လည်စစ်ဆေးခြင်း အထက်အကြောင်းအရာပါကိစ္စနှင့်စပ်လျဉ်း၍ အောက်ဖော်ပြပါ ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် ကို (၂၀၁၉-၂၀၂၀) ခုဘဏ္ဍာရေးနှစ်အတွက် ဤတိုင်းလျှပ်စစ်စစ်ဆေးရေးဌာနမှ (၅․ ၁၀․ ၂၀၁၉)ရက်နေ့တွင် စစ်ဆေးခဲ့ပြီး ဖြစ်သည်။ လျှပ်ထုတ်စက် စစ်ဆေးခအတွက် ပေးသွင်းလာသော (၈. ၁၀. ၂၀၁၉) ရက်စွဲပါ ချလန်အမှတ် (၃၆) ကိုလည်း လက်ခံရရှိပြီးကြောင်း ပြန်ကြားအပ်ပါသည်။ (က) လျှပ်ထုတ်စက်ကေဗွီအေ <u>1250 kVA</u> (ခ) သတ်မှတ်ဗို့အား <u>230/400V</u> (ဂ) လျှပ်ထုတ်စက်အမျိုးအစား N1120 DFLC (CUMMINS) J98A005766 (ဃ) လျှပ်ထုတ်စက်နံပါတ် (c) လျှပ်ထုတ်စက်တည်နေရာ .အမှတ် (A-2,A-3) မင်္ဂလာဒုံစက်မှုဇွန်၊ မင်္ဂလာဒံမြို့နယ်။ တိုင်းလျှပ်စစ်စစ်ဆေးရေးမှူ (ရန်ကုန်တိုင်းဒေသကြီး) Mr Yuzo Asano မှန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်း အမှတ်(A-2, A-3)၊ မင်္ဂလာဒံ့စက်မှုဇုန်၊ မင်္ဂလာဒံ့မြို့နယ်။

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် စက်မှငန်ကြီးဌာန ရန်ကုန်တိုင်းဒေသကြီးစက်မှုကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန (လျှပ်စစ်စစ်ဆေးရေး) အမှတ်–၁၉၂ ၊ ကမ္ဘာအေးဘုရားလမ်း၊ ဗဟန်းမြို့နယ်၊ ရန်ကုန်မြို့ ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် နှစ်ပတ်လည်စစ်ဆေးခြင်း အကြောင်းအရာ။ အထက်အကြောင်းအရာပါကိစ္စနှင့်စပ်လျဉ်း၍ အောက်ဖော်ပြပါ ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် SII ကို (၂၀၁၉-၂၀၂၀) ခုဘဏ္ဍာရေးနှစ်အတွက် ဤတိုင်းလျှပ်စစ်စစ်ဆေးရေးဌာနမှ (**၅.** ၁၀. ၂၀၁၉)ရက်နေ့တွင် စစ်ဆေးခဲ့ပြီး ဖြစ်သည်။ လျှပ်ထုတ်စက် စစ်ဆေးခအတွက် ပေးသွင်းလာသော (၈. ၁၀. ၂၀၁၉) ရက်စွဲပါ ချလန်အမှတ် (၃၆) ကိုလည်း လက်ခံရရှိပြီးကြောင်း ပြန်ကြားအပ်ပါသည်။ (က) လျှပ်ထုတ်စက်ကေဗွီအေ 1250 kVA (ခ) သတ်မှတ်ဗို့အား 230/400V (ဂ) လျှပ်ထုတ်စက်အမျိုးအစား (CUMMINS) J98A005767 (ဃ) လျှပ်ထုတ်စက်နံပါတ် (c) လျှပ်ထုတ်စက်တည်နေရာ . ශමුති (A-2, A-3) မင်္ဂလာဒုံစက်မှုဇွန်၊ မင်္ဂလာဒုံမြို့နယ်။ တိုင်းလျှပ်စစ်စစ်ဆေးရေးမှုး (ရန်ကုန်တိုင်းဒေသကြီး) Mr Yuzo Asano မှန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်း အမှတ်(A-2, A-3)၊ မင်္ဂလာဒံ့စက်မှုဇုန်၊ မင်္ဂလာဒံ့မြို့နယ်။

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် စက်မှဝန်ကြီးဌာန ရန်ကုန်တိုင်းဒေသကြီးစက်မှုကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန (လျပ်စစ်စစ်ဆေးရေး) အမှတ်–၁၉၂ ၊ ကမ္ဘာအေးဘုရားလမ်း၊ ဗဟန်းမြို့နယ်၊ ရန်ကုန်မြို့ ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် နှစ်ပတ်လည်စစ်ဆေးခြင်း အကြောင်းအရာ။ အထက်အကြောင်းအရာပါကိစ္စနှင့်စပ်လျဉ်း၍ အောက်ဖော်ပြပါ ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် ကို (၂၀၁၉-၂၀၂၀) ခုဘဏ္ဍာရေးနှစ်အတွက် ဤတိုင်းလျှပ်စစ်စစ်ဆေးရေးဌာနမှ (၅. ၁၀. ၂၀၁၉)ရက်နေ့တွင် စစ်ဆေးခဲ့ပြီး ဖြစ်သည်။ လျှပ်ထုတ်စက် စစ်ဆေးခအတွက် ပေးသွင်းလာသော (၈. ၁၀. ၂၀၁၉) ရက်စွဲပါ ချလန်အမှတ် اال (၃၆) ကိုလည်း လက်ခံရရှိပြီးကြောင်း ပြန်ကြားအပ်ပါသည်။ (က) လျှပ်ထုတ်စက်ကေဗွီအေ 1400 kVA (ခ) သတ်မှတ်ဗို့အား 230/400V (ဂ) လျှပ်ထုတ်စက်အမျိုးအစား (CUMMINS) (ဃ) လျှပ်ထုတ်စက်နံပါတ် C9873036 (c) လျှပ်ထုတ်စက်တည်နေရာ အမှတ် (A-2, A-3) မင်္ဂလာဒုံစက်မှုဇွန်၊ မင်္ဂလာဒံမြို့နယ်။ တိုင်းလျှပ်စစ်စစ်ဆေးရေးမှူ (ရန်ကုန်တိုင်းဒေသကြီး) Mr Yuzo Asano မှန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်း အမှတ်(A-2, A-3)၊ မင်္ဂလာဒံ့စက်မှုဇုန်၊ မင်္ဂလာဒုံမြို့နယ်။

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် **စက်မှုဝန်ကြီး**ဌာန ရန်ကူန်တိုင်းဒေသကြီးစက်မွှကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန (လျှပ်စစ်စစ်ဆေးရေး) အမှတ်–၁၉၂ ၊ ကမ္ဘာအေးဘုရားလမ်း၊ ဗဟန်းမြို့နယ်၊ ရန်ကုန်မြို့ အကြောင်းအရာ။ ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် နှစ်ပတ်လည်စစ်ဆေးခြင်း အထက်အကြောင်းအရာပါကိစ္စနှင့်စပ်လျဉ်း၍ အောက်ဖော်ပြပါ ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် OI ကို (၂၀၁၉-၂၀၂၀) ခုဘဏ္ဍာရေးနှစ်အတွက် ဤတိုင်းလျှပ်စစ်စစ်ဆေးရေးဌာနမှ (၅. ၁၀. ၂၀၁၉)ရက်နေ့တွင် စစ်ဆေးခဲ့ပြီး ဖြစ်သည်။ လျှပ်ထုတ်စက် စစ်ဆေးခအတွက် ပေးသွင်းလာသော (၈. ၁၀. ၂၀၁၉) ရက်စွဲပါ ချလန်အမှတ် (၃၆) ကိုလည်း လက်ခံရရှိပြီးကြောင်း ပြန်ကြားအပ်ပါသည်။ (က) လျှပ်ထုတ်စက်ကေဗ္ဂီအေ 1400 kVA (ခ) သတ်မှတ်ဗို့အား 230/400V (ဂ) လျှပ်ထုတ်စက်အမျိုးအစား (CUMMINS) C9873037 (ဃ) လျှပ်ထုတ်စက်နံပါတ် (c) လျှပ်ထုတ်စက်တည်နေရာ .အမှတ် (A-2, A-3)..... မင်္ဂလာခံ့စက်မှုဇွန်၊ မင်္ဂလာခံမြို့နယ်။ တိုင်းလျှပ်စစ်စစ်ဆေးရေးမျူး (ရန်ကုန်တိုင်းဒေသကြီး Mr Yuzo Asano မှန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်း အမှတ်(A-2, A-3)၊ မင်္ဂလာဒုံစက်မှုဇုန်၊ မင်္ဂလာဒံ့မြို့နယ်။

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် စက်မှဝန်ကြီးဌာန ရန်ကုန်တိုင်းဒေသကြီးစက်မှုကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန (လျှပ်စစ်စစ်ဆေးရေး) အမှတ်–၁၉၂ ၊ ကမ္ဘာအေးဘုရားလမ်း၊ ဗဟန်းမြို့နယ်၊ ရန်ကုန်မြို့ ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် နှစ်ပတ်လည်စစ်ဆေးခြင်း အကြောင်းအရာ။ အထက်အကြောင်းအရာပါကိစ္စနှင့်စပ်လျဉ်း၍ အောက်ဖော်ပြပါ ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် SII ကို (၂၀၁၉-၂၀၂၀) ခုဘဏ္ဍာရေးနှစ်အတွက် ဤတိုင်းလျှပ်စစ်စစ်ဆေးရေးဌာနမှ (၅. ၁၀. ၂၀၁၉)ရက်နေ့တွင် စစ်ဆေးခဲ့ပြီး ဖြစ်သည်။ လျှပ်ထုတ်စက် စစ်ဆေးခအတွက် ပေးသွင်းလာသော (**၈.** ၁၀. ၂၀၁၉) ရက်စွဲပါ ချလန်အမှတ် (၃၆) ကိုလည်း လက်ခံရရှိပြီးကြောင်း ပြန်ကြားအပ်ပါသည်။ (က) လျှပ်ထုတ်စက်ကေဗွီအေ 1400 kVA (ခ) သတ်မှတ်ဗို့အား 230/400V (ဂ) လျှပ်ထုတ်စက်အမျိုးအစား 1120 DFLC (CUMMINS) (ဃ) လျှပ်ထုတ်စက်နံပါတ် J98A005768 (c) လျှပ်ထုတ်စက်တည်နေရာ .<u>အမှတ် (A-2, A-3)</u> မင်္ဂလာဒုံစက်မှုဇွန်၊ မင်္ဂလာဒုံမြို့နယ်။ တိုင်းလျှပ်စစ်စစ်ဆေးရေးမှူး (ရန်ကုန်တိုင်းဒေသကြီး) Mr Yuzo Asano မှန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်း အမှတ်(A-2, A-3)၊ မင်္ဂလာဒံ့စက်မှုဇုန်၊ မင်္ဂလာဒံ့မြို့နယ်။

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် စက်မှဝန်ကြီးဌာန ရန်ကုန်တိုင်းဒေသကြီးစက်မှုကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန (လျှပ်စစ်စစ်ဆေးရေး) အမှတ်-၁၉၂၊ ကမ္ဘာအေးဘုရားလမ်း၊ ဗဟန်းမြို့နယ်၊ ရန်ကုန်မြို့ ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် နှစ်ပတ်လည်စစ်ဆေးခြင်း အကြောင်းအရာ။ အထက်အကြောင်းအရာပါကိစ္စနှင့်စပ်လျဉ်း၍ အောက်ဖော်ပြပါ ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် ကို (၂၀၁၉-၂၀၂၀) ခုဘဏ္ဍာရေးနှစ်အတွက် ဤတိုင်းလျှပ်စစ်စစ်ဆေးရေးဌာနမှ (၅. ၁၀. ၂၀၁၉)ရက်နေ့တွင် စစ်ဆေးခဲ့ပြီး ဖြစ်သည်။ လျှပ်ထုတ်စက် စစ်ဆေးခအတွက် ပေးသွင်းလာသော (၈. ၁၀. ၂၀၁၉) ရက်စွဲပါ ချလန်အမှတ် (၃၆) ကိုလည်း လက်ခံရရှိပြီးကြောင်း ပြန်ကြားအပ်ပါသည်။ (က) လျှပ်ထုတ်စက်ကေဗွီအေ 1400 kVA (ခ) သတ်မှတ်ဗို့အား (ခ) သတိမှတ်ဗွဲ့အား (ဂ) လျှပ်ထုတ်စက်အမျိုးအစား 1120 DFCC (CUMMINS) (ဃ) လျပ်ထတ်စက်နံပါတ် C9873038 230/400V (c) လျှပ်ထုတ်စက်တည်နေရာ .အမှတ် (A-2, A-3) မင်္ဂလာဒုံစက်မှုဇူန်၊ မင်္ဂလာဒုံမြို့နယ်။ တိုင်းလျှပ်စစ်စစ်ဆေးရေးမျှ (ရန်ကုန်တိုင်းဒေသကြီး) Mr Yuzo Asano မှန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်း အမှတ်(A-2, A-3)၊ မင်္ဂလာဒံ့စက်မှုဇုန်၊ မင်္ဂလာဒုံမြို့နယ်။

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် စက်မှဝန်ကြီးဌာန ရန်ကုန်တိုင်းဒေသကြီးစက်မှုကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန (လျှပ်စစ်စစ်ဆေးရေး) အမှတ်–၁၉၂ ၊ ကမ္ဘာအေးဘုရားလမ်း၊ ဗဟန်းမြို့နယ်၊ ရန်ကုန်မြို့ ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် နှစ်ပတ်လည်စစ်ဆေးခြင်း အကြောင်းအရာ။ အထက်အကြောင်းအရာပါကိစ္စနှင့်စပ်လျဉ်း၍ အောက်ဖော်ပြပါ ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် SII ကို (၂၀၁၉-၂၀၂၀) ခုဘဏ္ဍာရေးနှစ်အတွက် ဤတိုင်းလျှပ်စစ်စစ်ဆေးရေးဌာနမှ (၅. ၁၀. ၂၀၁၉)ရက်နေ့တွင် စစ်ဆေးခဲ့ပြီး ဖြစ်သည်။ ၂။ လျှပ်ထုတ်စက် စစ်ဆေးခအတွက် ပေးသွင်းလာသော (၈. ၁၀. ၂၀၁၉) ရက်စွဲပါ ချလန်အမှတ် (ခ) ကိုလည်း လက်ခံရရှိပြီးကြောင်း ပြန်ကြားအပ်ပါသည်။ (က) လျှပ်ထုတ်စက်ကေဗွီအေ 1400 kVA (ခ) သတ်မှတ်ဗို့အား 230/400 . (ဂ) လျှပ်ထုတ်စက်အမျိုးအစား 1120 DFJD (CUMMINS) (c) လျှပ်ထုတ်စက်တည်နေရာ .အမှတ် (A-2, A-3) မင်္ဂလာဒုံစတ်မှုဇွန်၊ မင်္ဂလာဒံမြို့နယ်။ တိုင်းလျှပ်စစ်စစ်ဆေးရေးမျှး (ရန်ကုန်တိုင်းဒေသကြီး) Mr Yuzo Asano မှန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်း အမှတ်(A-2, A-3)၊ မင်္ဂလာဒံ့စက်မှုဇုန်၊ မင်္ဂလာဒံ့မြို့နယ်။

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် စက်မှငန်ကြီးဌာန ရန်ကုန်တိုင်းဒေသကြီးစက်မှုကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန (လျှပ်စစ်စစ်ဆေးရေး) အမှတ်–၁၉၂ ၊ ကမ္ဘာအေးဘုရားလမ်း၊ ဗဟန်းမြို့နယ်၊ ရန်ကုန်မြို့ ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် နှစ်ပတ်လည်စစ်ဆေးခြင်း အကြောင်းအရာ။ အထက်အကြောင်းအရာပါကိစ္စနှင့်စပ်လျဉ်း၍ အောက်ဖော်ပြပါ ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် OII ကို (၂၀၁၉-၂၀၂၀) ခုဘဏ္ဍာရေးနှစ်အတွက် ဤတိုင်းလျှပ်စစ်စစ်ဆေးရေးဌာနမှ (၅. ၁၀. ၂၀၁၉)ရက်နေ့တွင် စစ်ဆေးခဲ့ပြီး ဖြစ်သည်။ လျှပ်ထုတ်စက် စစ်ဆေးခအတွက် ပေးသွင်းလာသော (၅ . ၁၀ . ၂၀၁၉) ရက်စွဲပါ ချလန်အမှတ် (၃၉) ကိုလည်း လက်ခံရရှိပြီးကြောင်း ပြန်ကြားအပ်ပါသည်။ (က) လျှပ်ထုတ်စက်ကေဗီ့အေ 550kVA (ခ) သတ်မှတ်ဗို့အား 400V (ဂ) လျှပ်ထုတ်စက်အမျိုးအစား (CUMMINS) C087855/05 (ဃ) လျှပ်ထုတ်စက်နံပါတ် (င) လျှပ်ထုတ်စက်တည်နေရာ <u>အမှတ် (A-2, A-3)</u> မင်္ဂလာဒံ့စက်မှုဇွန်၊ မင်္ဂလာဒံမြို့နယ်။ တိုင်းလျှပ်စစ်စစ်ဆေးရေးမှုန ုင်းလျှမမ (ရန်ကုန်တိုင်းဒေသကြီး) Mr Yuzo Asano မှန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်း အမှတ်(A-2, A-3)၊ မင်္ဂလာဒံ့စက်မှုဇုန်၊ မင်္ဂလာဒံ့မြို့နယ်။

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် စက်မှငန်ကြီးဌာန ရန်ကုန်တိုင်းဒေသကြီးစက်မှုကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန (လျှပ်စစ်စစ်ဆေးရေး) အမှတ်--၁၉၂ ၊ ကမ္ဘာအေးဘုရားလမ်း၊ ဗဟန်းမြို့နယ်၊ ရန်ကုန်မြို့ ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် နှစ်ပတ်လည်စစ်ဆေးခြင်း အကြောင်းအရာ။ အထက်အကြောင်းအရာပါကိစ္စနှင့်စပ်လျဉ်း၍ အောက်ဖော်ပြပါ ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် SII ကို (၂၀၁၉-၂၀၂၀) ခုဘဏ္ဍာရေးနှစ်အတွက် ဤတိုင်းလျှပ်စစ်စစ်ဆေးရေးဌာနမှ (၅. ၁၀. ၂၀၁၉)ရက်နေ့တွင် စစ်ဆေးခွဲပြီး ဖြစ်သည်။ လျှပ်ထုတ်စက် စစ်ဆေးခအတွက် ပေးသွင်းလာသော (၈. ၁၀. ၂၀၁၉) ရက်စွဲပါ ချလန်အမှတ် (၉၉) ကိုလည်း လက်ခံရရှိပြီးကြောင်း ပြန်ကြားအပ်ပါသည်။ (က) လျှပ်ထုတ်စက်ကေဗွီအေ 160 kVA (ခ) သတ်မှတ်ဗိုအား 230/400V (ဂ) လျှပ်ထုတ်စက်အမျိုးအစား GEH175(OLYMPIAN) OLY00000 ARNS 00707 (ဃ) လျှပ်ထုတ်စက်နံပါတ် (c) လျှပ်ထုတ်စက်တည်နေရာ .කදන් (A-2,A-3). မင်္ဂလာဒုံစက်မှုဇုန်၊ မင်္ဂလာဒုံမြို့နယ်။ တိုင်းလျှပ်စစ်စစ်ဆေးရေးမျှု (ရန်ကုန်တိုင်းဒေသကြီး) ၇ Mr Yuzo Asano မှန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်း အမှတ်(A-2, A-3)၊ မင်္ဂလာဒံ့စက်မှုဇုန်၊ မင်္ဂလာဒံ့မြို့နယ်။

Appendix 15 Generator Permit

14 စက်မှုဝန်ကြီးဌာန န်ကုန်တိုင်းဒေသကြီးစက်မှုကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန လျှပ်စစ်-စစ်ဆေးရေး တ်-၁၉၂၊ ကမ္ဘာအေးဘုရားလမ်း၊ ဗဟန်းမြို့နယ်၊ ရန်ကုန်မြို့။ စာအမှတ်၊ ၁၅၁၅(၇)ရက-လဆရ/၂၁/၂၀၁၈(မာ၉၀) ရက်စွဲ ၂၀၁၈ ခုနှစ် မေ လ ၂၈ ရက် အကြောင်းအရာ။ ရန်ကုန်တိုင်းဒေသကြီး၊မင်္ဂလာဒုံမြို့နယ်၊မင်္ဂလာဒုံစက်မှုဇုန်၊အမှတ်(အေ-၂၊၃) ရှိ Myanmar Asia Optical International Co.,Ltd ၏ မှန်ဘီလူးအမျိုးမျိုး ထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက်တပ်ဆင်အသုံးပြုလျက်ရှိသော ၄၀၀ ဗို့၊ ၅၅၀ ကေဗွီအေ (တစ်)လုံး၊ ၂၃၀/၄၀၀ ဗို့ ၁၀၀၀ ကေဗွီအေ(တစ်)လုံး၊ ၁၂၅၀ ကေဗွီအေ (သုံး) လုံး နှင့် ၁၄ဝဝ ကေဗ္ဂီအေ(ငါး)လုံး၊စုစုပေါင်း ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် (တစ်ဆယ်)လုံး အား လျှပ်စစ်ဓာတ်အားထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်း ဆိုင်ရာ မုတ်ပုံတင်လက်မှတ် သက်တမ်းတိုးမြှင့် ထုတ်ပေးခြင်း။ Mr Yuzo Asano, Managing Director, Myanmar Asia Optical International ရည် ညွှန်း ချက်။ Co.,Ltd ၏ ၇. ၅. ၂၀၁၈ ရက်စွဲပါ လျှောက်လွှာအရ အထက်အကြောင်းအရာပါကိစ္စနှင့်ပတ်သက်၍ ရန်ကုန်တိုင်းဒေသကြီး၊ မင်္ဂလာဒုံမြို့နယ်၊ မင်္ဂလာဒုံ စက်မှုဇုန်၊ အမှတ်(အေ-၂၊၃) ရှိ Myanmar Asia Optical International Co.,Ltd ၏ မှန်ဘီလူးအမျိုးမျိုး ထုတ်လုပ်ခြင်းလုပ်ငန်း အတွက် တပ်ဆင်အသုံးပြုလျက်ရှိသော ၄၀၀ ဗို့၊ ၅၅၀ ကေဗွီအေ (တစ်)လုံး၊ ၂၃၀/၄၀၀ ဗို့ ၁၀၀၀ ကေဗွီဓော(တစ်)လုံး၊ ၁၂၅၀ ကေဗွီဓော (သုံး)လုံး နှင့် ၁၄၀၀ ကေဗွီဓော (ငါး)လုံး၊ စုစုပေါင်း ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက် (တစ်ဆယ်)လုံး ဖြင့် လျှပ်စစ်ဓာတ်အား ထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းဆိုင်ရာ မှတ်ပုံတင်လက်မှတ်ကို ၂၀၁၈ ခုနှစ် မေ လ (၂၂)ရက်နေ့မှ စတင်၍ သက်တမ်း တိုးမြှင့် ထုတ်ပေးလိုက်သည်။ တိုင်းဒေသကြီးဦးစီးဌာနမှူး (ကို ခိုင်မြင့် - ဒုတိယညွှန်ကြားနေ ရန်ကုန်တိုင်းဒေသကြီး လျှပ်စစ်စစ်ဆေးရေးမျူး Myanmar Asia Optical International Co.,Ltd အမှတ် (အေ-၂၊၃) ၊ မင်္ဂလာဒုံစက်မှုဇုန်၊ မင်္ဂလာဒုံမြို့နယ်။ မိတ္တူ - ရုံးလက်ခံ၊ - မျှောစာတွဲ။

Appendix 16 Generator License

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် စက်မှုဝန်ကြီးဌာန စက်မှုကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန (လျှပ်စစ်စစ်ဆေးရေး) လျှပ်စစ်ဓာတ်အား ထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းဆိုင်ရာ မှတ်ပုံတင်လက်မှတ် ခွင့်ပြုမိန့် အမှတ်စဉ် - YD(N) ၀၃၀ / ၂၀၁၈ ၂၀၁၄ ခုနှစ် လျှပ်စစ်ဥပဒေပုဒ်မ ၃၂(င) နှင့် တည်ဆဲလျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းများအရ SII Myanmar Asia Optical International Co.,Ltd ၏ မုန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်းလုပ်ငန်း အတွက် တပ်ဆင်အသုံးပြုလျက်ရှိသော ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက်အား အောက်ဖော်ပြပါ နယ်မြေဒေသအတွင်း မှတ်ပုံတင်လက်မှတ်တွင်ပါရှိသော စည်းကမ်းချက်များနှင့်အညီ ၂၀၁၈ ခုနှစ် မေ လ (၂၂) ရက်နေ့မှစတင် ၍ လျှပ်စစ်ဓာတ်အား ထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းဆိုင်ရာ မှတ်ပုံတင်လက်မှတ်ကို သက်တမ်းတိုးမြှင့် ထုတ်ပေးလိုက်သည်-(က) ခွင့်ပြုသည့် နယ်မြေဒေသ - အမှတ်(အေ-၂ ၊ ၃) ၊ မင်္ဂလာဒုံစက်မှုဇုန်၊ မြို့နယ် - မင်္ဂလာဒုံမြို့နယ်။ တိုင်း - ရန်ကုန်တိုင်းဒေသကြီး (ခ) အများဆုံးထုတ်လုပ်သည့် - 550 kVA ဓာတ်အားပမာဏ (ဂ) သတ်မှတ်ဗို့အား - 400 V (ဃ) လျှပ်ထုတ်စက်အမျိုးအစား - CUMMINS (c) လျှပ်ထုတ်စက်နံပါတ် - C087855/05 ဓာတ်အားထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းတို့အတွက် အသုံးပြုသော လျှပ်စစ်ပစ္စည်း ကိရိယာ |11 တည်ဆောက်မှုဆိုင်ရာနည်းစနစ်များသည် လျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းများပါ ပြဌာန်းချက်များ အရ ဖြစ်ရမည့်အပြင် စစ်ဆေးရေးမျူး ၏ စစ်ဆေးစမ်းသပ်ခြင်းကို ခံယူရပါမည်။ လျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းပါ ပြဌာန်းချက်များကို တိကျစွာ လိုက်နာဆောင်ရွက်ရမည်။ 119 လျှပ်စစ်ဥပဒေဆိုင်ရာလုပ်ထုံးလုပ်နည်းများနှင့် ဤလက်မှတ်တွင်ပါရှိသော အကြောင်းအရာများကို လိုက်နာခြင်းမရှိပါက ထုတ်ပေးထားသော လက်မှတ်ကို ပြန်လည်ရုတ်သိမ်းမည်။ ဤမှတ်ပုံတင်လက်မှတ် သက်တမ်းသည် ခွင့်ပြုသည့်နေ့မှစတင် ၍ (၄) နှစ် အချိန်ကာလအတွင်းသာ ၅။ အကျိုးသက်ရောက်စေရမည်။ စတင်ခွင့်ပြုသည့်နေ့ - ၂၂ . ၅. ၂၀၁၈ ကုန်ဆုံးသည့်နေ့ - ၂၁ . ၅. ၂၀၂၂ လျှပ်စစ်စစ်ဆေးရေးမျူးချုပ် (ရန်ကုန်တိုင်းဒေသကြီး လျှပ်စစ်စုစ်ခ

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် စက်မူဝန်ကြီးဌာန စက်မှုကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန (လျှပ်စစ်စစ်ဆေးရေး) လျှပ်စစ်ဓာတ်အား ထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းဆိုင်ရာ မှတ်ပုံတင်လက်မှတ် ခွင့်ပြုမိန့် အမှတ်စဉ် - YD(N) ၀၃၁ / ၂၀၁၈ ၂၀၁၄ ခုနှစ် လျှပ်စစ်ဥပဒေပုဒ်မ ၃၂(င) နှင့် တည်ဆဲလျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းများအရ SII Myanmar Asia Optical International Co.,Ltd ၏ မုန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်းလုပ်ငန်း အတွက် တပ်ဆင်အသုံးပြုလျက်ရှိသော ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက်အား အောက်ဖော်ပြပါ နယ်မြေဒေသအတွင်း မှတ်ပုံတင်လက်မှတ်တွင်ပါရှိသော စည်းကမ်းချက်များနှင့်အညီ ၂၀၁၈ ခုနှစ် မေ လ (၂၂) ရက်နေ့မှစတင် ၍ လျှပ်စစ်ဓာတ်အား ထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းဆိုင်ရာ မှတ်ပုံတင်လက်မှတ်ကို သက်တမ်းတိုးမြှင့် ထုတ်ပေးလိုက်သည်-(က) ခွင့်ပြုသည့် နယ်မြေဒေသ - အမှတ်(အေ-၂ ၊ ၃) ၊ မင်္ဂလာဒုံစက်မှုဇုန်၊ မြို့နယ် - မင်္ဂလာဒုံမြို့နယ်။ တိုင်း - ရန်ကုန်တိုင်းဒေသကြီး (ခ) အများဆုံးထုတ်လုပ်သည် - 1000 kVA ဓာတ်အားပမာဏ (ဂ) သတ်မှတ်ဗို့အား - 230/400 V (ဃ) လျှပ်ထုတ်စက်အမျိုးအစား - 800 DF JC (CUMMINS) (c) လျှပ်ထုတ်စက်နံပါတ် - C97A002424 ဓာတ်အားထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းတို့အတွက် အသုံးပြုသော လျှပ်စစ်ပစ္စည်း ကိရိယာ တည်ဆောက်မှုဆိုင်ရာနည်းစနစ်များသည် လျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းများပါ ပြဌာန်းချက်များ အရ ဖြစ်ရမည့်အပြင် စစ်ဆေးရေးမျူး ၏ စစ်ဆေးစမ်းသပ်ခြင်းကို ခံယူရပါမည်။ လျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းပါ ပြဌာန်းချက်များကို တိကျစွာ လိုက်နာဆောင်ရွက်ရမည်။ PII လျှပ်စစ်ဥပဒေဆိုင်ရာလုပ်ထုံးလုပ်နည်းများနှင့် ဤလက်မှတ်တွင်ပါရှိသော အကြောင်းအရာများကို GII လိုက်နာခြင်းမရှိပါက ထုတ်ပေးထားသော လက်မှတ်ကို ပြန်လည်ရုတ်သိမ်းမည်။ ဤမှတ်ပုံတင်လက်မှတ် သက်တမ်းသည် ခွင့်ပြုသည့်နေ့မှစတင် ၍ (၄) နှစ် အချိန်ကာလအတွင်းသာ ၅။ အကျိုးသက်ရောက်စေရမည်။ စတင်ခွင့်ပြုသည့်နေ့ - ၂၂ . ၅. ၂၀၁၈ ကုန်ဆုံးသည့်နေ့ - ၂၁ . ၅. ၂၀၂၂ လျှပ်စစ်စစ်ဆေးရေးမူးချုပ် (📈 ရန်ကုန်တိုင်းဒေသကြီး လျှပ်စစ်စစ်ခေ

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် စက်မှုဝန်ကြီးဌာန စက်မှုကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန (လျှပ်စစ်စစ်ဆေးရေး) လျှပ်စစ်ဓာတ်အား ထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းဆိုင်ရာ မှတ်ပုံတင်လက်မှတ် ခွင့်ပြုမိန့် အမှတ်စဉ် - YD(N) ပ်မှ ၂ / ၂၀၁၈ ၂၀၁၄ ခုနှစ် လျှပ်စစ်ဥပဒေပုဒ်မ ၃၂(င) နှင့် တည်ဆဲလျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းမျှားအရ SIIC Myanmar Asia Optical International Co.,Ltd ၏ မုန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်းလုပ်ငန်း အတွက် တပ်ဆင်အသုံးပြုလျက်ရှိသော ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက်အား အောက်ဖော်ပြပါ နယ်မြေဒေသအတွင်း မှတ်ပုံတင်လက်မှတ်တွင်ပါရှိသော စည်းကမ်းချက်များနှင့်အညီ ၂၀၁၈ ခုနှစ် မေ လ (၂၂) ရက်နေ့မှစတင် ၍ လျှပ်စစ်ဓာတ်အား ထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းဆိုင်ရာ မှတ်ပုံတင်လက်မှတ်ကို သက်တမ်းတိုးမြှင့် ထုတ်ပေးလိုက်သည်-(က) ခွင့်ပြုသည့် နယ်မြေဒေသ - အမှတ်(အေ-၂ ၊ ၃) ၊ မင်္ဂလာဒုံစက်မှုဇုန်၊ မြို့နယ် - မင်္ဂလာဒုံမြို့နယ်။ တိုင်း - ရန်ကုန်တိုင်းဒေသကြီး (ခ) အများဆုံးထုတ်လုပ်သည့် - 1250 kVA ဓာတ်အားပမာဏ (ဂ) သတ်မှတ်ဗို့အား - 230/400 V (ဃ) လျှပ်ထုတ်စက်အမျိုးအစား - CUMMINS (c) လျှပ်ထုတ်စက်နံပါတ် - 73698-317 ဓာတ်အားထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းတို့အတွက် အသုံးပြုသော လျှပ်စစ်ပစ္စည်း ကိရိယာ တည်ဆောက်မှုဆိုင်ရာနည်းစနစ်များသည် လျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းများပါ ပြဌာန်းချက်များ အရ ဖြစ်ရမည့်အပြင် စစ်ဆေးရေးမျူး ၏ စစ်ဆေးစမ်းသပ်ခြင်းကို ခံယူရပါမည်။ လျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းပါ ပြဌာန်းချက်များကို တိကျစွာ လိုက်နာဆောင်ရွက်ရမည်။ PII လျှပ်စစ်ဥပဒေဆိုင်ရာလုပ်ထုံးလုပ်နည်းများနှင့် ဤလက်မှတ်တွင်ပါရှိသော အကြောင်းအရာများကို လိုက်နာခြင်းမရှိပါက ထုတ်ပေးထားသော လက်မှတ်ကို ပြန်လည်ရုတ်သိမ်းမည်။ ဤမှတ်ပုံတင်လက်မှတ် သက်တမ်းသည် ခွင့်ပြုသည့်နေ့မှစတင် ၍ (၄) နှစ် အချိန်ကာလအတွင်းသာ အကျိုးသက်ရောက်စေရမည်။ စတင်ခွင့်ပြုသည့်နေ့ - ၂၂ . ၅. ၂၀၁၈ ကုန်ဆုံးသည့်နေ့ - ၂၁ . ၅. ၂၀၂၂ -72 · J. POP လျှပ်စစ်စစ်ဆေးရေးမူးချုပ် (၂ ရန်ကုန်တိုင်းဒေသကြီး လျှပ်စစ်စစ်ခေ

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် စက်မှုဝန်ကြီးဌာန စက်မှုကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန (လျှပ်စစ်စစ်ဆေးရေး) လျှပ်စစ်ဓာတ်အား ထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းဆိုင်ရာ မှတ်ပုံတင်လက်မှတ် ခွင့်ပြုမိန့် အမှတ်စဉ် - YD(N) 022 / 1000 ၂၀၁၄ ခုနှစ် လျှပ်စစ်ဥပဒေပုဒ်မ ဥ၂(င) နှင့် တည်ဆဲလျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းများအရ SII Myanmar Asia Optical International Co.,Ltd ၏ မုန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်းလုပ်ငန်း အတွက် တပ်ဆင်အသုံးပြုလျက်ရှိသော ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက်အား အောက်ဖော်ပြပါ နယ်မြေဒေသအတွင်း မှတ်ပုံတင်လက်မှတ်တွင်ပါရှိသော စည်းကမ်းချက်များနှင့်အညီ ၂၀၁၈ ခုနှစ် မေ လ (JJ) ရက်နေ့မှစတင် ၍ လျှပ်စစ်ဓာတ်အား ထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းဆိုင်ရာ မှတ်ပုံတင်လက်မှတ်ကို သက်တမ်းတိုးမြှင့် ထုတ်ပေးလိုက်သည်-(က) ခွင့်ပြုသည့် နယ်မြေဒေသ - အမှတ်(အေ-၂ ၊ ၃) ၊ မင်္ဂလာဒုံစက်မှုဇုန်၊ မြို့နယ် - မင်္ဂလာဒုံမြို့နယ်။ တိုင်း - ရန်ကုန်တိုင်းဒေသကြီး (ခ) အများဆုံးထုတ်လုပ်သည့် - 1250 kVA ဓာတ်အားပမာဏ (ဂ) သတ်မှတ်ဗို့အား - 230/400 V (ဃ) လျှပ်ထုတ်စက်အမျိုးအစား - N 1120 DFLC (CUMMINS) (c) လျှပ်ထုတ်စက်နံပါတ် - J98A005766 ဓာတ်အားထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းတို့အတွက် အသုံးပြုသော လျှပ်စစ်ပစ္စည်း ကိရိယာ တည်ဆောက်မှုဆိုင်ရာနည်းစနစ်များသည် လျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းများပါ ပြဌာန်းချက်များ အရ ဖြစ်ရမည့်အပြင် စစ်ဆေးရေးမျူး ၏ စစ်ဆေးစမ်းသပ်ခြင်းကို ခံယူရပါမည်။ လျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းပါ ပြဌာန်းချက်များကို တိကျစွာ လိုက်နာဆောင်ရွက်ရမည်။ Я လျှပ်စစ်ဥပဒေဆိုင်ရာလုပ်ထုံးလုပ်နည်းများနှင့် ဤလက်မှတ်တွင်ပါရှိသော အကြောင်းအရာများကို လိုက်နာခြင်းမရှိပါက ထုတ်ပေးထားသော လက်မှတ်ကို ပြန်လည်ရုတ်သိမ်းမည်။ ဤမှတ်ပုံတင်လက်မှတ် သက်တမ်းသည် ခွင့်ပြုသည့်နေ့မှစတင် ၍ (၄) နှစ် အခိုန်ကာလအတွင်းသာ ၅။ အကျိုးသက်ရောက်စေရမည်။ စတင်ခွင့်ပြုသည့်နေ့ - ၂၂ . ၅. ၂၀၁၈ ကုန်ဆုံးသည့်နေ့ - ၂၁ . ၅. ၂၀၂၂ လျှပ်စစ်စစ်ဆေးရေးမှုူးချုပ် (🔊 ရန်ကုန်တိုင်းဒေသကြီး လျှပ်စစ်စစ်ခေ

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် စက်မူဝန်ကြီးဌာန စက်မူကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန (လျှပ်စစ်စစ်ဆေးရေး) လျှပ်စစ်ဓာတ်အား ထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းဆိုင်ရာ မှတ်ပုံတင်လက်မှတ် ခွင့်ပြုမိန့် အမှတ်စဉ် - YD(N) ၀၃၄ / ၂၀၁၈ ၂၀၁၄ ခုနှစ် လျှပ်စစ်ဥပဒေပုဒ်မ ၃၂(င) နှင့် တည်ဆဲလျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းများအရ SII Myanmar Asia Optical International Co.,Ltd ၏ မုန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်းလုပ်ငန်း အတွက် တပ်ဆင်အသုံးပြုလျက်ရှိသော ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက်အား အောက်ဖော်ပြပါ နယ်မြေဒေသအတွင်း မှတ်ပုံတင်လက်မှတ်တွင်ပါရှိသော စည်းကမ်းချက်များနှင့်အညီ ၂၀၁၈ ခုနှစ် မေ လ (၂၂) ရက်နေ့မှစတင် ၍ လျှပ်စစ်ဓာတ်အား ထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းဆိုင်ရာ မှတ်ပုံတင်လက်မှတ်ကို သက်တမ်းတိုးမြှင့် ထုတ်ပေးလိုက်သည်-(က) ခွင့်ပြုသည့် နယ်မြေဒေသ - အမှတ်(အေ-၂၊၃)၊ မင်္ဂလာဒုံစက်မှုဇုန်၊ မြို့နယ် - မင်္ဂလာဒုံမြို့နယ်။ တိုင်း - ရန်ကုန်တိုင်းဒေသကြီး (ခ) အများဆုံးထုတ်လုပ်သည့် - 1250 kVA ဓာတ်အားပမာဏ (ဂ) သတ်မှတ်ဗို့အား - 230/400 V (ဃ) လျှပ်ထုတ်စက်အမျိုးအစား - CUMMINS (c) လျှပ်ထုတ်စက်နံပါတ် - J98A005767 ဓာတ်အားထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းတို့အတွက် အသုံးပြုသော လျှပ်စစ်ပစ္စည်း ကိရိယာ တည်ဆောက်မှုဆိုင်ရာနည်းစနစ်များသည် လျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းများပါ ပြဌာန်းချက်များ အရ ဖြစ်ရမည့်အပြင် စစ်ဆေးရေးမျှး ၏ စစ်ဆေးစမ်းသပ်ခြင်းကို ခံယူရပါမည်။ လျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းပါ ပြဌာန်းချက်များကို တိကျစွာ လိုက်နာဆောင်ရွက်ရမည်။ 211 လျှပ်စစ်ဥပဒေဆိုင်ရာလုပ်ထုံးလုပ်နည်းများနှင့် ဤလက်မှတ်တွင်ပါရှိသော အကြောင်းအရာများကို ĢII လိုက်နာခြင်းမရှိပါက ထုတ်ပေးထားသော လက်မှတ်ကို ပြန်လည်ရုတ်သိမ်းမည်။ ဤမှတ်ပုံတင်လက်မှတ် သက်တမ်းသည် ခွင့်ပြုသည့်နေ့မှစတင် ၍ (၄) နှစ် အချိန်ကာလအတွင်းသာ ၅။ အကျိုးသက်ရောက်စေရမည်။ စတင်ခွင့်ပြုသည့်နေ့ - ၂၂ . ၅. ၂၀၁၈ ကုန်ဆုံးသည့်နေ့ - ၂၁ . ၅. ၂၀၂၂ ရန်ကုန်တိုင်းဒေသကြီး လျှပ်စစ်စစ်ခု

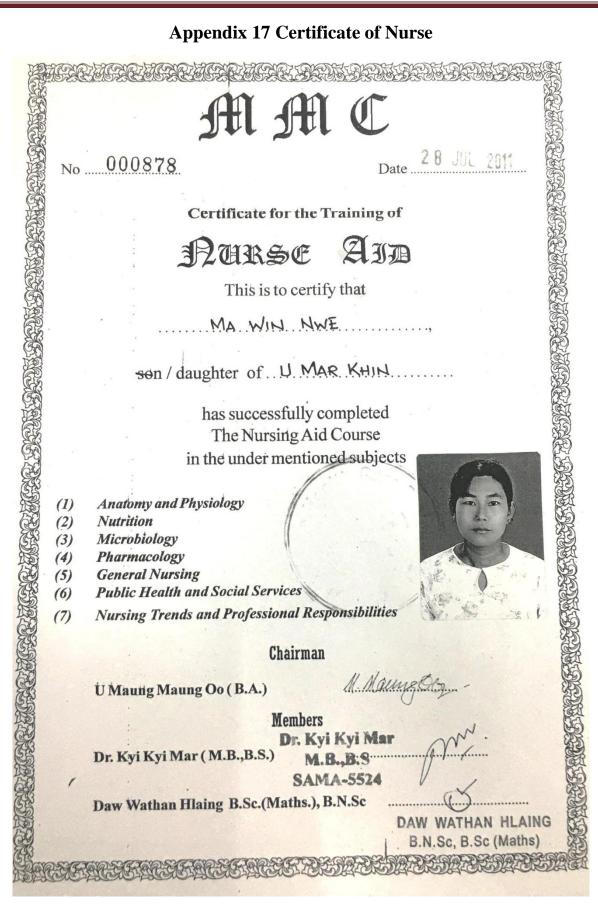
ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် စက်မူဝန်ကြီးဌာန စက်မှုကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန (လျှပ်စစ်စစ်ဆေးရေး) လျှပ်စစ်ဓာတ်အား ထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းဆိုင်ရာ မှတ်ပုံတင်လက်မှတ် ခွင့်ပြုမိန့် အမှတ်စဉ် - YD(N) ဝံ ၃၉ / ၂၀၁၈ ၂၀၁၄ ခုနှစ် လျှပ်စစ်ဥပဒေပုဒ်မ ၃၂(င) နှင့် တည်ဆဲလျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းမျှားအရ SII Myanmar Asia Optical International Co.,Ltd ၏ မုန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်းလုပ်ငန်း အတွက် တပ်ဆင်အသုံးပြုလျက်ရှိသော ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက်အား အောက်ဖော်ပြပါ နယ်မြေဒေသအတွင်း မှတ်ပုံတင်လက်မှတ်တွင်ပါရှိသော စည်းကမ်းချက်များနှင့်အညီ ၂၀၁၈ ခုနှစ် မေ လ (၂၂) ရက်နေ့မှစတင် ၍ လျှပ်စစ်ဓာတ်အား ထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းဆိုင်ရာ မှတ်ပုံတင်လက်မှတ်ကို သက်တမ်းတိုးမြှင့် ထုတ်ပေးလိုက်သည်-(က) ခွင့်ပြုသည့် နယ်မြေဒေသ - အမှတ်(အေ-၂ ၊ ၃) ၊ မင်္ဂလာဒုံစက်မှုဇုန်၊ မြို့နယ် - မင်္ဂလာဒုံမြို့နယ်။ တိုင်း - ရန်ကုန်တိုင်းဒေသကြီး (ခ) အများဆုံးထုတ်လုပ်သည့် - 1400 kVA ဓာတ်အားပမာဏ (ဂ) သတ်မှတ်ဗို့အား - 230/400 V (ဃ) လျှပ်ထုတ်စက်အမျိုးအစား - 1120 DFLC (CUMMINS) (c) လျှပ်ထုတ်စက်နံပါတ် - J98A005768 ဓာတ်အားထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းတို့အတွက် အသုံးပြုသော လျှပ်စစ်ပစ္စည်း ကိရိယာ JII. တည်ဆောက်မှုဆိုင်ရာနည်းစနစ်များသည် လျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းများပါ ပြဌာန်းချက်များ အရ ဖြစ်ရမည့်အပြင် စစ်ဆေးရေးမျူး ၏ စစ်ဆေးစမ်းသပ်ခြင်းကို ခံယူရပါမည်။ လျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းပါ ပြဌာန်းချက်များကို တိကျစွာ လိုက်နာဆောင်ရွက်ရမည်။ PII လျှပ်စစ်ဥပဒေဆိုင်ရာလုပ်ထုံးလုပ်နည်းများနှင့် ဤလက်မှတ်တွင်ပါရှိသော အကြောင်းအရာများကို လိုက်နာခြင်းမရှိပါက ထုတ်ပေးထားသော လက်မှတ်ကို ပြန်လည်ရုတ်သိမ်းမည်။ ဤမှတ်ပုံတင်လက်မှတ် သက်တမ်းသည် ခွင့်ပြုသည့်နေ့မှစတင် ၍ (၄) နှစ် အချိန်ကာလအတွင်းသာ ၅။ အကျိုးသက်ရောက်စေရမည်။ စတင်ခွင့်ပြုသည့်နေ့ - 🗍 . ၅. ၂၀၁၈ ကုန်ဆုံးသည့်နေ့ - ၂၁ . ၅. ၂၀၂၂ လျှပ်စစ်စစ်ဆေးရေးမှုးချုပ် (ရန်ကုန်တိုင်းဒေသကြီး လျှပ်စစ်စစ်ရ

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် စက်မှုဝန်ကြီးဌာန စက်မှုကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန (လျှပ်စစ်စစ်ဆေးရေး) လျှပ်စစ်ဓာတ်အား ထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းဆိုင်ရာ မှတ်ပုံတင်လက်မှတ် ခွင့်ပြုမိန့် အမှတ်စဉ် - YD(N) 099/1000 ၂၀၁၄ ခုနှစ် လျှပ်စစ်ဥပဒေပုဒ်မ ၃၂(င) နှင့် တည်ဆဲလျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းများအရ SII Myanmar Asia Optical International Co.,Ltd ၏ မုန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်းလုပ်ငန်း အတွက် တပ်ဆင်အသုံးပြုလျက်ရှိသော ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက်အား အောက်ဖော်ပြပါ နယ်မြေဒေသအတွင်း မှတ်ပုံတင်လက်မှတ်တွင်ပါရှိသော စည်းကမ်းချက်များနှင့်အညီ ၂၀၁၈ ခုနှစ် မေ လ (၂၂) ရက်နေ့မှစတင် ၍ လျှပ်စစ်ဓာတ်အား ထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းဆိုင်ရာ မှတ်ပုံတင်လက်မှတ်ကို သက်တမ်းတိုးမြှင့် ထုတ်ပေးလိုက်သည်-(က) ခွင့်ပြုသည့် နယ်မြေဒေသ - အမှတ်(အေ-၂၂၃)၊ မင်္ဂလာဒုံစက်မှုဇုန်၊ မြို့နယ် - မင်္ဂလာဒုံမြို့နယ်။ တိုင်း - ရန်ကုန်တိုင်းဒေသကြီး (ခ) အများဆုံးထုတ်လုပ်သည် - 1400 kVA ဓာတ်အားပမာဏ (ဂ) သတ်မှတ်ဗို့အား - 230/400 V (ဃ) လျှပ်ထုတ်စက်အမျိုးအစား - 1120 DFJD (CUMMINS) (c) လျှပ်ထုတ်စက်နံပါတ် - E80A00062 ဓာတ်အားထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းတို့အတွက် အသုံးပြုသော လျှပ်စစ်ပစ္စည်း ကိရိယာ တည်ဆောက်မှုဆိုင်ရာနည်းစနစ်များသည် လျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းများပါ ပြဌာန်းချက်များ အရ ဖြစ်ရမည့်အပြင် စစ်ဆေးရေးမျူး ၏ စစ်ဆေးစမ်းသပ်ခြင်းကို ခံယူရပါမည်။ လျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းပါ ပြဌာန်းချက်များကို တိကျစွာ လိုက်နာဆောင်ရွက်ရမည်။ ၃။ လျှပ်စစ်ဥပဒေဆိုင်ရာလုပ်ထုံးလုပ်နည်းများနှင့် ဤလက်မှတ်တွင်ပါရှိသော အကြောင်းအရာများကို GII လိုက်နာခြင်းမရှိပါက ထုတ်ပေးထားသော လက်မှတ်ကို ပြန်လည်ရုတ်သိမ်းမည်။ ဤမှတ်ပုံတင်လက်မှတ် သက်တမ်းသည် ခွင့်ပြုသည့်နေ့မှစတင် ၍ (၄) နှစ် အချိန်ကာလအတွင်းသာ าแ အကျိုးသက်ရောက်စေရမည်။ စတင်ခွင့်ပြုသည့်နေ့ - ၂၂ . ၅. ၂၀၁၈ ကုန်ဆုံးသည့်နေ့ - ၂ ၁ . ၅. ၂၀၂၂ လျှပ်စစ်စစ်ဆေးရေးမှူးချပ် (႔) ရန်ကုန်တိုင်းဒေသကြီး လျှပ်စစ်စစ်စ

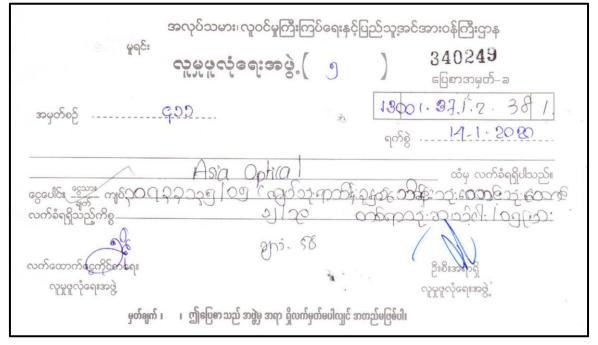
ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် စက်မှုဝန်ကြီးဌာန စက်မှုကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန (လျှပ်စစ်စစ်ဆေးရေး) လျှပ်စစ်ဓာတ်အား ထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းဆိုင်ရာ မှတ်ပုံတင်လက်မှတ် ခွင့်ပြုမိန့် အမှတ်စဉ် - YD(N) ၀၃၇/၂၀၁၈ ၂၀၁၄ ခုနှစ် လျှပ်စစ်ဥပဒေပုဒ်မ ၃၂(င) နှင့် တည်ဆဲလျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းများအရ SII Myanmar Asia Optical International Co., Ltd ၏ မုန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်းလုပ်ငန်း အတွက် တပ်ဆင်အသုံးပြုလျက်ရှိသော ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက်အား အောက်ဖော်ပြပါ နယ်မြေဒေသအတွင်း မှတ်ပုံတင်လက်မှတ်တွင်ပါရှိသော စည်းကမ်းချက်များနှင့်အညီ ၂၀၁၈ ခုနှစ် မေ လ (သ) ရက်နေ့မှစတင် ၍ လျှပ်စစ်ဓာတ်အား ထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းဆိုင်ရာ မှတ်ပုံတင်လက်မှတ်ကို သက်တမ်းတိုးမြှင့် ထုတ်ပေးလိုက်သည်-(က) ခွင့်ပြုသည့် နယ်မြေဒေသ - အမှတ်(အေ-၂၊ ၃)၊ မင်္ဂလာဒုံစက်မှုဇုန်၊ မြို့နယ် - မင်္ဂလာဒုံမြို့နယ်။ တိုင်း - ရန်ကုန်တိုင်းဒေသကြီး (ခ) အများဆုံးထုတ်လုပ်သည့် - 1400 kVA ဓာတ်အားပမာဏ (ဂ) သတ်မှတ်ဗို့အား - 230/400 V (ဃ) လျှပ်ထုတ်စက်အမျိုးအစား - 1120 DFCC (CUMMINS) (c) လျှပ်ထုတ်စက်နံပါတ် - C9873038 ဓာတ်အားထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းတို့အတွက် အသုံးပြုသော လျှပ်စစ်ပစ္စည်း ကိရိယာ တည်ဆောက်မှုဆိုင်ရာနည်းစနစ်များသည် လျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းများပါ ပြဌာန်းချက်များ အရ ဖြစ်ရမည့်အပြင် စစ်ဆေးရေးမျူး ၏ စစ်ဆေးစမ်းသပ်ခြင်းကို ခံယူရပါမည်။ လျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းပါ ပြဌာန်းချက်များကို တိကျစွာ လိုက်နာဆောင်ရွက်ရမည်။ 19 လျှပ်စစ်ဥပဒေဆိုင်ရာလုပ်ထုံးလုပ်နည်းများနှင့် ဤလက်မှတ်တွင်ပါရှိသော အကြောင်းအရာများကို လိုက်နာခြင်းမရှိပါက ထုတ်ပေးထားသော လက်မှတ်ကို ပြန်လည်ရုတ်သိမ်းမည်။ ဤမှတ်ပုံတင်လက်မှတ် သက်တမ်းသည် ခွင့်ပြုသည့်နေ့မှစတင် ၍ (၄) နှစ် အချိန်ကာလအတွင်းသာ အကျိုးသက်ရောက်စေရမည်။ စတင်ခွင့်ပြုသည့်နေ့ - ၂၂ . ၅. ၂၀၁၈ ကုန်ဆုံးသည့်နေ့ - ၂၁ . ၅. ၂၀၂၂ လျှပ်စစ်စစ်ဆေးရေးမျှးချုပ် ရန်ကုန်တိုင်းဒေသကြီး လျှပ်စစ်စစ်စ

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် စက်မှုဝန်ကြီးဌာန စက်မှုကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန (လျှပ်စစ်စစ်ဆေးရေး) လျှပ်စစ်ဓာတ်အား ထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းဆိုင်ရာ မုတ်ပုံတင်လက်မှတ် ခွင့်ပြုမိန့် အမှတ်စဉ် - YD(N) 029 / 1000 ၂၀၁၄ ခုနှစ် လျှပ်စစ်ဥပဒေပုဒ်မ ၃၂(င) နှင့် တည်ဆဲလျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းများအရ OII Myanmar Asia Optical International Co.,Ltd ၏ မုန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်းလုပ်ငန်း အတွက် တပ်ဆင်အသုံးပြုလျက်ရှိသော ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက်အား အောက်ဖော်ပြပါ နယ်မြေဒေသအတွင်း မှတ်ပုံတင်လက်မှတ်တွင်ပါရှိသော စည်းကမ်းချက်များနှင့်အညီ ၂၀၁၈ ခုနှစ် မေ လ (၂၂) ရက်နေ့မှစတင် ၍ လျှပ်စစ်ဓာတ်အား ထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းဆိုင်ရာ မှတ်ပုံတင်လက်မှတ်ကို သက်တမ်းတိုးမြှင့် ထုတ်ပေးလိုက်သည်-(က) ခွင့်ပြုသည့် နယ်မြေဒေသ - အမှတ်(အေ-၂၂၃)၊ မင်္ဂလာဒုံစက်မှုဇုန်၊ မြို့နယ် - မင်္ဂလာဒုံမြို့နယ်။ တိုင်း - ရန်ကုန်တိုင်းဒေသကြီး (ခ) အများဆုံးထုတ်လုပ်သည့် - 1400 kVA ဓာတ်အားပမာဏ (ဂ) သတ်မှတ်ဗို့အား - 230/400 V (ဃ) လျှပ်ထုတ်စက်အမျိုးအစား - CUMMINS (င) လျှပ်ထုတ်စက်နံပါတ် - C9873036 ဓာတ်အားထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းတို့အတွက် အသုံးပြုသော လျှပ်စစ်ပစ္စည်း ကိရိယာ 111 တည်ဆောက်မှုဆိုင်ရာနည်းစနစ်များသည် လျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းများပါ ပြိုဌာန်းချက်များ အရ ဖြစ်ရမည့်အပြင် စစ်ဆေးရေးမျူး ၏ စစ်ဆေးစမ်းသပ်ခြင်းကို ခံယူရပါမည်။ လျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းပါ ပြဌာန်းချက်များကို တိကျစွာ လိုက်နာဆောင်ရွက်ရမည်။ PII လျှပ်စစ်ဥပဒေဆိုင်ရာလုပ်ထုံးလုပ်နည်းများနှင့် ဤလက်မှတ်တွင်ပါရှိသော အကြောင်းအရာများကို GII လိုက်နာခြင်းမရှိပါက ထုတ်ပေးထားသော လက်မှတ်ကို ပြန်လည်ရုတ်သိမ်းမည်။ ဤမှတ်ပုံတင်လက်မှတ် သက်တမ်းသည် ခွင့်ပြုသည့်နေ့မှစတင် ၍ (၄) နှစ် အချိန်ကာလအတွင်းသာ အကျိုးသက်ရောက်စေရမည်။ စတင်ခွင့်ပြုသည့်နေ့ - ၂၂ . ၅.၂၀၁၈ ကုန်ဆုံးသည့်နေ့ - ၂၁ . ၅. ၂၀၂၂ လျှပ်စစ်စစ်ဆေးရေးမှူးချုပ် (ရန်ကုန်တိုင်းဒေသကြီး လျှပ်စစ်စစ်ခေ

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် စက်မူဝန်ကြီးဌာန စက်မှုကြီးကြပ်ရေးနှင့်စစ်ဆေးရေးဦးစီးဌာန (လျှပ်စစ်စစ်ဆေးရေး) လျှပ်စစ်ဓာတ်အား ထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းဆိုင်ရာ မုတ်ပုံတင်လက်မှတ် ခွင့်ပြုမိန့် အမှတ်စဉ် - YD(N) ပို ပြုစ၁၈ ၂၀၁၄ ခုနှစ် လျှပ်စစ်ဥပဒေပုဒ်မ ၃၂(င) နှင့် တည်ဆဲလျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းများအရ SII Myanmar Asia Optical International Co.,Ltd ၏ မုန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်းလုပ်ငန်း အတွက် တပ်ဆင်အသုံးပြုလျက်ရှိသော ဒီဇယ်အင်ဂျင်လျှပ်ထုတ်စက်အား အောက်ဖော်ပြပါ နယ်မြေဒေသအတွင်း မှတ်ပုံတင်လက်မှတ်တွင်ပါရှိသော စည်းကမ်းချက်များနှင့်အညီ ၂၀၁၈ ခုနှစ် မေ လ (၂၂) ရက်နေ့မှစတင် ၍ လျှပ်စစ်ဓာတ်အား ထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းဆိုင်ရာ မှတ်ပုံတင်လက်မှတ်ကို သက်တမ်းတိုးမြှင့် ထုတ်ပေးလိုက်သည်-(က) ခွင့်ပြုသည့် နယ်မြေဒေသ - အမှတ်(အေ-၂၂၃)၊ မင်္ဂလာဒုံစက်မှုဇုန်၊ မြို့နယ် - မင်္ဂလာဒုံမြို့နယ်။ တိုင်း - ရန်ကုန်တိုင်းဒေသကြီး (ခ) အများဆုံးထုတ်လုပ်သည့် - 1400 kVA ဓာတ်အားပမာဏ (ဂ) သတ်မှတ်ဗို့အား - 230/400 V (ဃ) လျှပ်ထုတ်စက်အမျိုးအစား - CUMMINS (c) လျှပ်ထုတ်စက်နံပါတ် - C9873037 ဓာတ်အားထုတ်လုပ်ခြင်း နှင့် အသုံးပြုခြင်းတို့အတွက် အသုံးပြုသော လျှပ်စစ်ပစ္စည်း ကိရိယာ တည်ဆောက်မှုဆိုင်ရာနည်းစနစ်များသည် လျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းများပါ ပြဌာန်းချက်များ အရ ဖြစ်ရမည့်အပြင် စစ်ဆေးရေးမျူး ၏ စစ်ဆေးစမ်းသပ်ခြင်းကို ခံယူရပါမည်။ လျှပ်စစ်ဥပဒေဆိုင်ရာ လုပ်ထုံးလုပ်နည်းပါ ပြဌာန်းချက်များကို တိကျစွာ လိုက်နာဆောင်ရွက်ရမည်။ PII လျှပ်စစ်ဥပဒေဆိုင်ရာလုပ်ထုံးလုပ်နည်းများနှင့် ဤလက်မှတ်တွင်ပါရှိသော အကြောင်းအရာများကို **GII** လိုက်နာခြင်းမရှိပါက ထုတ်ပေးထားသော လက်မှတ်ကို ပြန်လည်ရုတ်သိမ်းမည်။ ဤမှတ်ပုံတင်လက်မှတ် သက်တမ်းသည် ခွင့်ပြုသည့်နေ့မှစတင် ၍ (၄) နှစ် အချိန်ကာလအတွင်းသာ ၅။ အကျိုးသက်ရောက်စေရမည်။ စတင်ခွင့်ပြုသည့်နေ့ -၂၂ . ၅. ၂၀၁၈ ကုန်ဆုံးသည့်နေ့ -၂၁ . ၅.၂၀၂၂ လျှပ်စစ်စစ်ဆေးရေးမှူးချုပ် (ဂ ရန်ကုန်တိုင်းဒေသကြီး လျှပ်စစ်စစ်ဆေ



Appendix 18 Social Security

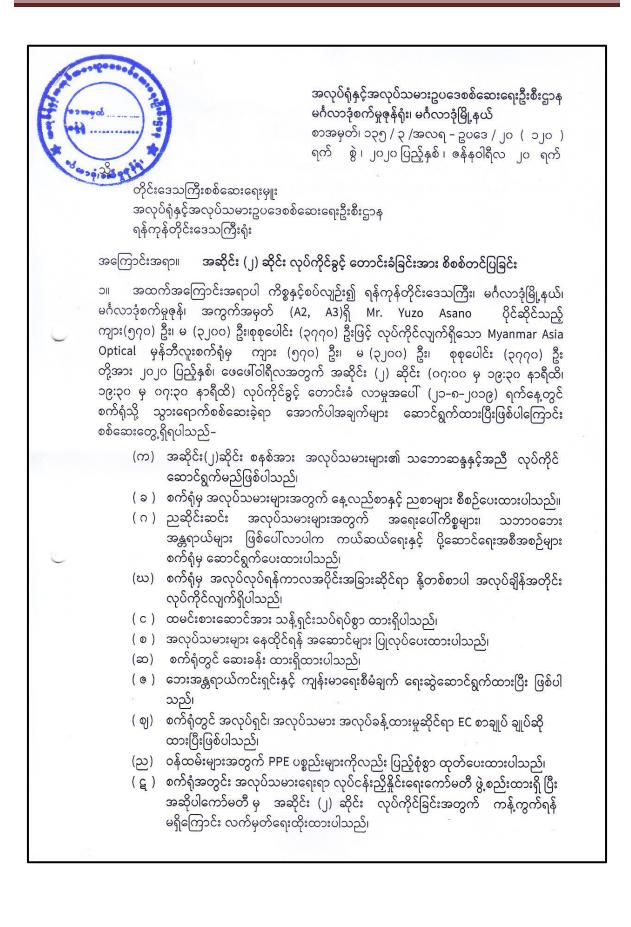




အလုပ်သမား၊လူဝင် ဒီးကြပ်ရေးနှင့်ပြည်သူ့အင်အားဝန်ကြီးဌာန မူရင်း 00000 356027 0 ပြေစာအဖတ်– ခ အမှတ်စဉ် 209 3001.37.1.2. 32 ရက်စွဲ Asia ငွေပေါင်း ထံမှ လက်ခံရှရှိပါသည်၊ တာလ် 💙 OOCPEDA NO സന്തെറ လူမှုဖူလိုရေးအဖွဲ လူမှုဗူလိုရေးအဖွဲ ၊ ဤပြေစာ သည် အဖွဲ့မှ အရာ ရှိလက်မှတ်ပေါလျှင် အတည်မဖြစ်ပါ၊ မှတ်ချက် ၊ ၆။ အတ်ဂသိင္ကေခ်းကုန္ အာဇဇက္နက္ ထည့်ဝင်ကြေးငွေ 6,009,927.90 ന്വാ് ရက်လွန်ကြေး 0.00 ოეა ၁၀။ စုစုပေါင်းပေးသွင်းရမည့်ငွေ 30,049,639.50 ကျပ် ၁၁။ လက်ခံရရှိသည့်ငွေ 30,049,639.50 ന്വാ് (Other)

Appendix 19 Working Permit for Overtime

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် အလုပ်သမား၊ လူဝင်မှုကြီးကြပ်ရေးနှင့် ပြည်သူ့အင်အား ဝန်ကြီးဌာန အလုပ်ရုံနှင့်အလုပ်သမားဥပဒေစစ်ဆေးရေးဦးစီးဌာန (ဖုန်း –၀၁– ၆၅၀၂၉၅) ရန်ကုန်တိုင်းဒေသကြီးရုံး စာအမှတ်၊ ၁၁၄/၄/အလရ–စီစစ်ရေး ၂/၂၀၂၀ (၂၃၈၃) ရက် စွဲ၊ ၂၀၂၀ ပြည့်နှစ်၊ ဖေဖော်ဝါရီလ ၂ ၎ ရက် သို့ လုပ်ငန်းပိုင်ရှင်/ မန်နေဂျာ Asia optical အကြောင်းအရာ။ အချိန်ပို လုပ်ကိုင်ခွင့်ပြုခြင်း ရည် ညွှန်း ချက် ။ လူကြီးမင်း စက်ရုံ၏ (၂၅ – ၂ – ၂၀၂၀) ရက်စွဲပါစာ ၁။ အထက်ရည်ညွှန်းပါ အကြောင်းအရာနှင့် ပတ်သက်၍ ၁၉၅၁ခုနှစ်၊ အလုပ်ရုံများ အက်ဥပဒေ ပုဒ်မ – ၇၁ (၂) အရ အပ်နှင်းထားသော အာဏာများကို သုံးစွဲလျက် လူကြီးမင်း၏ အလုပ်ရုံတွင် ဖော်ပြပါ အလုပ်သမားများအား အလုပ်ရုံများ အက်ဥပဒေ ပုဒ်မ (၅၉ ၊ ၆၀ ၊ ၆၂၊ ၆၄) တို့၏ ပြဋ္ဌာန်းချက်များနှင့် သက်ဆိုင်ခြင်းမှ ကင်းလွတ်စေ၍ အလုပ်သမား (၂၄၉၅)ဦးအား တစ်ဦးလျှင် (၂_၄) နာရီနှုန်းဖြင့် စုစုပေါင်း (၅ ၃ ၉၀၀)နာရီ အချိန်ပို လုပ်ကိုင်ခွင့် ပြုလိုက်သည်။ အလုပ်သမား (၂၄၁၂) ဦးအား (၂၄-၂-၂၀၂၀) နေ့မှ (၂၉-၂-၂၀၂၀)နေ့အထိ ရက်သတ္တပတ် JII. ကာလအတွင်း အချိန်ပို လုပ်ကိုင်ခွင့်ပြုသည်။ အချိန်ပိုလုပ်ကိုင်ခွင့် အမိန့်စာကို အလုပ်ရုံအတွင်းမြင်သာသောနေရာတွင်ပြသထားရှိရမည်။ ЯII မှတ်ချက်။ သတ်မှတ် အလုပ်ချိန်၊ လုပ်ကိုင်ခွင့်တောင်းခံသည့် အလုပ်သမား၊ ခွင့်ပြု ထားသည့် အချိန် ှိ နာရီထက် ပိုမို လုပ်ကိုင်ခြင်း လုံးဝ (လုံးဝ)မပြုရန် ၊ ညွှန်ကြင်းရေးမှ ချင်(ကိုယ်တ (မြတ်လဉ်ဦး- ဘီယဦးစီးမှာ)



J (ဌ) အဆိုင်းများအား နေ့ဆိုင်း/ညဆိုင်း အလှည့်ထပ်ခိုင်းစေခြင်း မပြုလုပ်ပါ၊ ၂။ Myanmar Asia Optical မှန်ဘီလူးစက်ရုံ၏ အဆိုင်း (၂) ဆိုင်း လုပ်ကိုင်ခွင့် တောင်းခံ ခြင်းနှင့် ပတ်သက်၍ ခွင့်ပြုပေးနိုင်ပါရန် ဤအစီရင်ခံစာနှင့်အတူ ပူးတွဲ၍ စိစစ်တင်ပြအပ်ပါသည်။ ခရိုင်စစ်ဆေးရေးမှူး (ထွန်းထွန်းဝင်း၊ လက်ထောက်ညွှန်ကြားရေးမှူး) မိတ္တူကို ရုံးလက်ခံ

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်အစိုးရ အလုပ်သမား၊လူဝင်မှုကြီးကြပ်ရေးနှင့် ပြည်သူ့အင်အားဝန်ကြီးဌာန အလုပ်ရုံနှင့်အလုပ်သမားဥပဒေစစ်ဆေးရေးဦးစီးဌာန(ဝ၁–၆၅ဝ၂၉၅) စာအမှတ်၊ ၆၁၅/၂ /အလရ–ဥပဒေ ၂ /၂၀၂၀ (၁၁ ၃) ရက် စွဲ၊ ၂ ၀ ၂ ၀ ပြည့်နှစ်၊ ဇန်နဝါရီလ ႕ရ ရက် အကြောင်းအရာ။ အဆိုင်း (၂) ဆိုင်းစနစ် လုပ်ကိုင်ခွင့်ပြုခြင်း ဤဦးစီးဌာန၊ မင်္ဂလာဒုံစက်မှုဇုန်ရုံး၏ ၂၀–၁–၂၀၂၀ ရက်စွဲပါစာအမှတ်၊ ၁၃၅ / ၃/ ရည် ညွှန်း ချက် ။ အလရ – ဥပဒေ /၂၀၂၀(၁၂၀) ရန်ကုန်တိုင်းဒေသကြီး ၊ မင်္ဂလာဒုံမြို့နယ် ၊ မင်္ဂလာဒုံစက်မှုဖုန် ၊ အကွက်အမှတ် (A2, A3) ရှိ Mr. SII Chen His Wang ပိုင် အလုပ်သမား ကျား(၅၇၀)ဦး၊ မ(၃၂၀၀)ဦး၊ ပေါင်း(၃၇၇၀)ဦးတို့ဖြင့် လုပ်ကိုင်လျက်ရှိသော Myanmar Asia Optical မုန်ဘီလူးစက်ရုံမှ အလုပ်သမား (၃၇၇၀)ဦးတို့အား (၁–၂–၂၀၂၀ ရက်နေ့မှ ၂၉–၂–၂၀၂၀ ရက်နေ့အထိ) အဆိုင်း(၂)ဆိုင်း စနစ်ဖြင့် လုပ်ကိုင်ခွင့်ပြုလိုက်သည်။ ပထမဆိုင်း အလုပ်သမားများ၏ တနင်္လာနေ့ မှ သောကြာနေ့ထိ အလုပ်ချိန်မှာ (၀၇:၃၀) နာရီ မှ 11 (၁၆:ဂဂ)နာရီ (မိနစ် (၃ဂ) ထမင်းစားနား) ၊ စနေနေ့ အလုပ်ချိန်မှာ (ဂဂု:၃ဂ) နာရီမှ (၁၁:၃ဂ) နာရီ နှင့် ဒုတိယအဆိုင်း အလုပ်သမားများ၏ တနင်္လာနေ့ မှ သောကြာနေ့ထိ အလုပ်ချိန် မှာ (၁၉:၃၀) နာရီမှ (၀၄:ဂဂ)နာရီ(မိနစ်(၃ဂ)ထမင်းစားနား)၊ စနေနေ့ အလုပ်ချိန်မှာ (၁၉:၃ဂ)နာရီ မှ (၂၃:၃ဂ) နာရီဖြစ်ပြီး ရက်သတ္တပတ်လျှင်အလှည့်ကျ(၁)ရက် ပိတ်ရက် ခံစားခွင့်ပြုရန် နှင့် အလုပ်သမားများ အတွက် အခြားဆောင်ရွက်ရန် ရှိသည်များကို ဥပဒေနှင့်အညီ ဆောင်ရွက်ရန် ညွှန်ကြားသည် – ညွှန်ကြားချက်။ (က) သတ်မှတ်အလုပ်ချိန်နှင့်ခွင့်ပြုလုပ်သားဦးရေသာခိုင်းစေရန်၊ (ခ) အလုပ်လုပ်ရန် ဆန္ဒရှိသူများသာခိုင်းရန်၊ (ဂ) ရက်သတ္တပတ်လျှင် တစ်ရက် လုံးဝအနားပေးရန် (တနင်္ဂနွေ) နှင့် အများပြည်သူ အလုပ်ပိတ်ရက်များအား အနားပေးရန်၊ စစ်ဆေးရေးအရာရှိများလာရောက်ပါက စစ်ဆေးနိုင်ရန်ဤခွင့်ပြုချက် ကို (ဃ) ပြသရန်၊ တာကကာ/ ညွှန်ကြားရေးမှူးချုပ်(ကိုယ်စား) (ကျော်ကျော်ထွန်း၊ဒုတိယညွှန်ကြားရေးမျူး) ပိုင်ရှင် Myanmar Asia Optical မုန်ဘီလူးစက်ရုံ အကွက်အမှတ် (A2, A3)၊မင်္ဂလာဒုံစက်မှုဖုန် ၊ မင်္ဂလာဒုံမြို့နယ် ၊ မိတ္တူကို အလုပ်ရုံနှင့်အလုပ်သမားဥပဒေစစ်ဆေးရေးဦးစီးဌာန၊ မင်္ဂလာဒုံစက်မှုဇုန်ရုံး ရုံးလက်ခံ division\shift\2020\shift(1-202

Appendix 20 Assignment Agreement

MIP-Assignment Agreement ASSIGNMENT AGREEMENT THIS AGREEMENT made and entered into this _____ day of ____ , 20 among: i) Mingaladon Industrial Park Co., Ltd., a corporation organized and existing under the laws of the Union of Myanmar, having its place of business at Corner of No. 3 Highway Road and Khayebin Road, Mingaladon Township, Yangon, Union of Myanmar (hereinafter called "MIPCL"); and ii) Asia Optical International Ltd., a corporation organized and existing under the laws of British Virgin Islands, having its place of business at Palm Grove House, PO Box 438, Road Town, Tortola, British Virgin Islands (hereinafter called the "Assignor"); and iii) Myanmar Asia Optical International Co., Ltd., a corporation organized and existing under the laws of the Union of Myanmar, having its place of business at Plot No. C 1& C 2 of Mingaladon Industrial Park, Mingaladon Township, Yangon, The Republic of the Union of Myanmar (hereinafter called the "Assignee"); WITNESSETH: WHEREAS, the Assignor and MIPCL are parties to the Addendum to Sub-Lease Agreement dated 19th day of March 1998, a copy of which is attached hereto as Exhibit A (hereinafter called the "Sub-Lease Agreement"): and WHEREAS, the Assignor and the Assignee desire that all of the Assignor's rights and interests under the Sub-Lease Agreement shall be assigned by the Assignor to the Assignee and all of the Assignor's obligations and liabilities thereunder shall be assumed by the Assignee, and WHEREAS, MIPCL is willing to consent to said assignment and assumption under the terms and conditions hereinafter set forth; NOW, THEREFORE, in consideration of the mutual covenants and agreements herein contained, the parties hereto hereby agree as follows:

MIP-Assignment Agreement

Article 1. ASSIGNMENT AND ASSUMPTION

The Assignor hereby assigns to the Assignee all of the Assignor's interests in and rights under the Sub-Lease Agreement, and the Assignee accepts said assignment and hereby assumes all obligations, liabilities and commitments absolute, contingent or otherwise of the Assignor under the Sub-Lease Agreement as though the Assignee were named and referred to therein in each instance in the place and stead of the Assignor.

Article 2. CONSENT BY MIPCL

MIPCL shall acknowledge and consent to the assignment and assumption as set forth in Article 1 hereof, upon the completion of the obligations under Chapter 3 of the Sub-Lease Agreement by Assignor. Such assignment and assumption shall take effect at the time when the Government of The Republic of the Union of Myanmar accepts the registration of the capital contribution in kind of the Land Use Premium in accordance with the Decision of MIC dated 28 December 2017 [Ma Ya Ka-9/Na- Htway /2017(5504)

Article 3. RELEASE

MIPCL hereby agrees to release and forever discharge the Assignor from any and all claims, actions, suits, bills, bonds, dues, sums of money, damages or demands whatsoever in law, in equity or in admiralty which it has or may hereafter have against the Assignor out of, in relation to or in connection with the Sub-Lease Agreement.

Article 4. NOTICE

For purpose of Clause 23 of the Sub-Lease Agreement, the address of the Assignee shall be:

Address: Plot No. C 1& C 2 of, Mingaladon Industrial Park, Mingaladon Township,
Yangon, The Republic of the Union of MyanmarName: Myanmar Asia Optical International Co., Ltd.

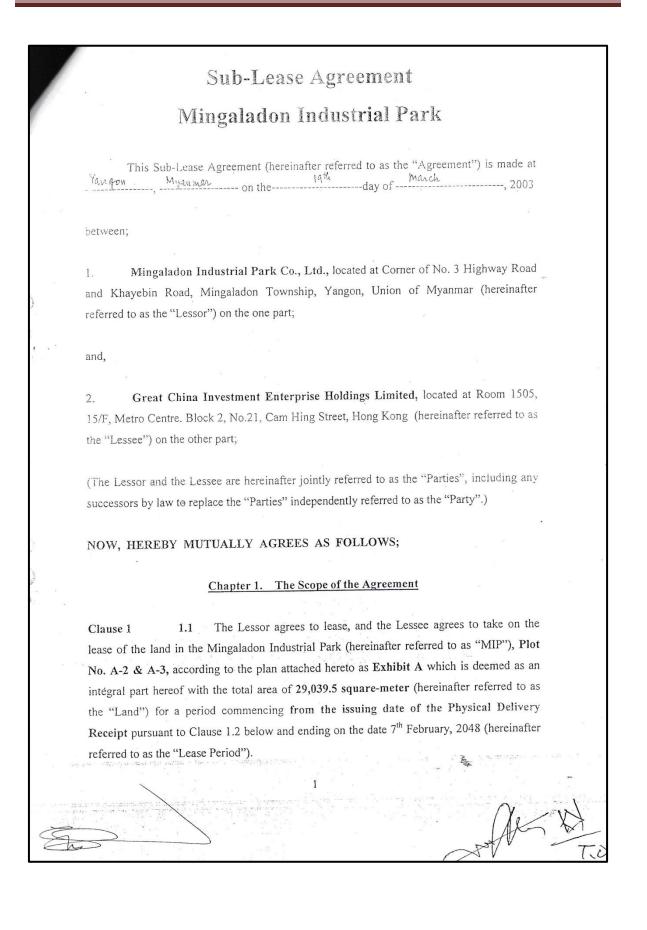
Article 5. EFFECTIVE DATE

This Agreement shall be effective on the date first above written subject to approval of the government of The Republic of the Union of Myanmar or its agency with respect to the assignment and assumption as set forth in Article 1 hereof, if necessary.

MIP-Assignment Agreement Article 6. GOVERNING LAW THIS Agreement shall be governed by and construed in accordance with the laws of The Republic of the Union of Myanmar. IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be signed in their respective names by their duly authorize representatives as of the date first above written. MIPCL Name : Shigeo HANA Title : Managing Director : Mingaladon Industrial Park Co., Ltd. Company Assignor Name : Mr. Lai I-Jen Title : Company : Asia Optical International Ltd. Assignee Name : Yuzo Asano Title : Managing Director Company : Myanmar Asia Optical International Co., Ltd.

Appendix 21 Sub-Lease Agreement

) - ropy cospicer > 21. pLot/NO. A-2,3 2128001 SUB-LEASE AGREEMENT BETWEEN GREAT CHINA INVESTMENT ENTERPRISE HOLDINGS LIMITED AND MINGALADON INDUSTRIAL PARK CO., LTD. MINGALADON INDUSTRIAL PARK CO., LTD. YANGON UNION OF MYANMAR



1.2 Subject to the full payment by the Lessee of the Land Use Premium under Clause 3.1 and Myanmar Investment Commission's permit, the Land shall be delivered to the Lessee by issuing the Physical Delivery Receipt attached hereto as Exhibit B by the Lessor provided that the Lessor has confirmed that the Lessee has satisfied all of its obligations stipulated within this Agreement.

1.3 Any costs and expenses, which relates to the execution of this Agreement, of the Land and/or the Lessee's business in the MIP shall be borne by the Lessee.

Chapter 2. Warranty and Representation

Clause 2 2.1 Each Party represents and warrants to the other Party that it is a legal person duly authorised under the relevant laws and has the right or power, sound financial standing and authority to enter into this Agreement.

Chapter 3. Payment Terms

Clause 3 3.1 In consideration for the Lessee's right to take on the lease of the Land, the Lessee shall pay the Lessor land use premium (hereinafter referred to as the "Land Use Premium") totally amounting to USS 1,219,659.00 (United States Dollars One million two hundred nineteen thousand six hundred and fifty nine only) as follows:-

a. FIRST INSTALMENT

The booking fee which has already been received by the Lessor under the Provisional Allotment amounting to US\$ 121,965.90 (United States Dollars One hundred twenty one thousand nine hundred and sixty five and cents ninety only) (hereinafter referred to as the "First Instalment") shall be appropriated for the First Instalment of 10% (ten percent) of the Land Use Premium on the date of signing of this Agreement.

b. SECOND INSTALMENT

Within 14 days after signing of this Agreement, 50% (fifty percent) of the Land Use Premium amounting to US\$ 609,829.50 (United States Dollars Six hundred nine thousand eight hundred and twenty nine and cents fifty only) shall be paid to the Lessor (hereinafter referred to as the "Second Instalment") failing which Lessor shall have the right to terminate this Agreement at its own discretion and the First Instalment'shall be forfeited.

c. FINAL INSTALMENT

Within 90 days after signing of this Agreement, 40% (forty percent) of the Land Use Premium amounting to US\$ 487,863.60 (United States Dollars Four hundred eighty seven thousand eight hundred and sixty three and cents sixty only) (hereinafter referred to as the "Final Instalment") shall be paid to the Lessor by the Lessee failing which the Lessor shall have the right to terminate this Agreement at its own discretion and the First Instalment and the Second Instalment shall be forfeited.

3.2 Each instalment of the Land Use Premium shall only be deemed to be received by the Lessor after the said amounts in full had been remitted and credited to the bank account of the Lessor at the bank designated by the Lessor.

Chapter 4. Annual Land Rent and Other Fees

Clause 4 4.1 In addition to the above consideration, the Lessee shall pay the annual land rent (hereinafter referred to as the "Land Rent") on yearly basis at the rate of US\$ 0.30 (thirty cents) per year per one square meter, i.e. US\$ 8,711.85 (United States Dollars Eight thousand seven hundred and eleven and cents eighty five only) stipulated in Clause 1 herewith as well as the Management Fees and Utility Charges (hereinafter collectively referred to as the "Fees") to be paid in accordance with the estate conditions of the Mingaladon Industrial Park (hereinafter referred to as the "Estate Conditions") attached hereto as **Exhibit C.** The Lessee shall pay the Land Rent to the Lessor each year no later than the 5th day of December of the preceding year.

Clause 5 5.1 The Lessee hereby acknowledges and accepts the right of the Lessor to review and change the rate of the Land Rent at the end of every 5 (five) year period at a rate of no more than 15% (fifteen percent) of the previous rate.

Clause 6 6.1 Whenever the cadastral surveying has been done and found that there is a change of area of the Land which does not conform to the area as stipulated in the Agreement, the Lessor shall inform the Lessee thereof to pay and the Lessee agrees to pay the new amount of the Land Use Premium, the Land Rent and the Fees, based on the adjusted area of the Land from the subsequent date of such notification.

6.2 Subject to Clause 4 hereof, the Lessee and the Lessor agree that the balance of the Land Use Premium, the Land Rent and the Fees for the adjusted part of Land measured by the Lessor during the period from the commencement date of the Lease Period to the date of the notification by the Lessor to the Lessee pursuant to the first paragraph of this Clause 6 shall not be paid or reimbursed.

Chapter 5. Event of Default

Clause 7 7.1 If at any time and for any reason, the Lessee be in default in any payment of the Land Rent and the Fees, the Lessee agrees to pay the Lessor the delayed interest at the rate of 18% (eighteen percent) per year for the unpaid portion of the Land Rent and the Fees, as the case may be, until the date on which the payment is actually remitted and credited to the bank account of the Lessor stipulated in Clause 3.2.

Chapter 6. Security of Annual Land Rent

Clause 8 8.1 The Lessee agrees to provide a security deposit (hereinafter referred to as the "Security") to the Lessor on the date of the signing of this Agreement by means of cash deposit (hereinafter referred to as the "Cash Deposit") equivalent to the amounts to the Land Rent stipulated in Clause 4.1 and Clause 5 amounting to US\$ 8,711.85 (United States Dollars Eight thousand seven hundred and eleven and cents eighty five only).

8.2 If the Lessee, having received the Lessor's notice after causing any damages and/or losses to the Lessor or being in default of the Land Rent and the Fees caused by the Lessee, the Lessee agrees that the Lessor is entitled to deduct the amount due from the Cash Deposit.

8.3 If the amount of the Cash Deposit falls below the full amount as prescribed in Clause 8.1 for whatsoever reason, the Lessee shall increase the amount of the Cash Deposit to attain such full amount within 45 (forty five) days from the date of the notification by the Lessor.

8.4 If the Land Rent is changed by the Lessor pursuant to Clause 5 of the Agreement, the Lessee shall increase the amount of the Cash Deposit to attain such full amount within 45 (forty five) days from the date of the notification by the Lessor.

8.5 The Security shall be returned to the Lessee with no interest thereon only if and when this Agreement expires or is terminated and all of the obligations of the Lessee have been deemed to be completed by the Lessee.

Chapter 7. Ownership of Constructed Property and the Lessee's Duties

Clause 99.1All facilities and materials on the Land brought by the Lessee shallbelong to the Lessee (hereunder referred to as the "Lessee's Properties").

Clause 10 10.1 The Lessor acknowledges that the Lessee's Properties except immovable assets may be mortgaged, pledged, or guaranteed against the Lessee's debts with financial institutions or any third parties. The Land lease right granted to the Lessee under this Agreement shall not be mortgaged, pledged or guaranteed for any purpose no matter whatsoever reasons or at any event.

Clause 11 11.1 Under Clause 10, the Lessee shall not assign or transfer the right to lease the Land to other persons nor transfer to other persons, in whole or in part, its rights or obligations hereunder nor do anything to endanger the Lessor's rights to the Land nor sublease the Land, without the Lessor's prior written approval which shall be issued at the Lessor's sole discretion and subject to the approval of Myanmar Investment Commission.

Clause 12 12.1 The Lessee shall strictly comply with the laws, rules, and regulations of the government and local authorities and observe the order of the Lessor or the Lessor's agent, relating to compliance with this Agreement.

12.2 The Lessee shall ensure that his and/or her foreign personnel and their families shall abide by the Laws of the Union of Myanmar and they shall not interfere in the internal affairs of the Union of Myanmar.

Clause 13 13.1 Within the Lease Period, the Lessee permits the Lessor to inspect the factory building and any other building on the Land with the full cooperation of the Lessee.

Clause 14 14.1 The Lessee must keep the Land in good condition at his own expense throughout the Lease Period. Should the Lessor incur damages from eviction of the Lessee or confiscation of possessions on the Land by outside persons, or lose any rights or profits hereunder, the Lessee shall be held responsible for and shall compensate the Lessor in full for such damages and losses.

Clause 15 15.1 The Lessee shall bear all taxes, duties and fees charged by the government or local authorities throughout the Lease Period on or relating to the payment of the Land Use Premium, the Land Rent or the Fees and/or its business on the Land.

Clause 16 16.1 Should the Lessor suffer damages for whatever reason, directly or indirectly, arising from the performance or non-performance by the Lessee, or its employees, agents, servants or visitors in relation to its business in MIP, the Lessee shall be liable for and shall make full compensation for such damages of whatsoever kind to the Lessor.

Clause 17 17.1 The Lessee shall finish construction of the factory building on the Land within the period of 2 (two) years or any longer period approved by the Lessor from the date of commencement of the Lease.

17.2 Should the Lessee fail to finish the construction work within such period, the Lessee agrees that this event shall constitute a breach of this Agreement, and the Lessor reserves the right to terminate this Agreement pursuant to Chapter 9 set out below. and the Lessor shall have the right to re-enter into the said Land.

Clause 18 18.1 During the construction of the factory building on the Land, the Lessee agrees to permit the Lessor or his agent to inspect the construction at all times. Should the Lessor consider that any construction is not in accordance with the detailed Estate Conditions, the Lessor is entitled to instruct the Lessee to correct the construction and the Lessee shall make best efforts to observe the Lessor's instruction. If the Lessor considers that the said faults involve an essential element, the Lessor shall have the right to instruct the Lessee to stop construction immediately.

Clause 19 19.1 The Lessee shall strictly abide by the Estate Conditions and other rules and conditions which shall be attached as an integral part of this Agreement. The Lessee shall comply in full with all the clauses contained therein.

Clause 20 20.1 In the event that the Lessee fails to perform any clause, apart from default of payment as specified in Clause 7 and that the Lessor has sent a letter of notice to the Lessee ordering him to observe the Agreement within a specified period of time and the Lessee does not make full performance within such period, then the Lessor shall have the right to terminate the Agreement at its sole discretion and to claim to the Lessee all damages incurred directly and indirectly therefrom.

Chapter 8. Arbitration

Clause 21 21.1 If any dispute arises out of this Agreement or any other agreement or document executed in connection with this Agreement, the Parties hereto shall consult with each other in good faith in order to settle such dispute amicably.

21.2 In the event that such dispute can not be settled amicably, it shall be settled in the Union of Myanmar by Arbitration, through two arbitrators, one each shall be appointed by each Party. Should the arbitrators fail to reach an agreement, then such dispute shall be referred to an Umpire nominated by those arbitrators. The decision of the arbitrators or the Umpire shall be final and binding upon both Parties.

21.3 The Arbitration proceedings shall in all respects conform to the Myanmar Arbitration Act, 1944 (Myanmar Act IV, 1944) or any subsisting statutory modification thereof. The venue of Arbitration shall be in Yangon, Union of Myanmar. The Arbitration fees shall be borne by the losing Party.

Chapter 9. Termination

Clause 22 22.1 Should the Agreement be terminated for one of the following reasons;

- (a) Breach of condition of this Agreement by one Party without rectification within 30 (thirty) days from the written notification of the other Party,
- (b) Force Majeure persisting for more than 6 (six) months after the occurrence thereof,
- (c) Incapability of implementing the original aims and object of the Lessee,

the Lessee agrees to stop operations immediately and remove all Lessee's Properties mentioned in Chapter 7 from the Land within 30 (thirty) days from the date of termination and return the Land to the Lessor in good condition. If the Lessee fails to do so, the Lessee' agrees to pay the Lessor daily damages calculated as follows;

Land Rent per year at the time of the termination x 20

365

until the Lessee shall have duly completed such removal and return. Regarding removal of the Lessee's Properties the Lessee shall bear all related costs of such removal.

22.2 If the Lessee fails to remove such Lessee's Properties or cannot finish the removal, the Lessee shall permit the Lessor to remove such Lessee's Properties and the Lessee shall bear all expenses and damages as mentioned in Clause 22.1 until the day which is deemed by the Lessor as the day of complete removal. In no event shall the Land Use Premium specified in Clause 3 be decreased or refunded due to the termination of the Agreement.

Chapter 10. Notice

Clause 23 23.1 Any notice or other communication required to be given or sent hereunder shall be in English and be left or sent by prepaid registered post (airmail, if overseas) or telex or electronic mail or facsimile transmission or international courier to the Party concerned at its address given underneath describing the names and addresses or such address as the Party concerned shall have notified in concurrence with this Clause to the other Party.

Lessor :	Name : Mingaladon Industrial Park Co., Ltd.
	Address : Corner of No.3, Highway Road and Khayebin Road,
	Mingaladon Township, Yangon, Union of Myanmar.

Lessee : Name : Great China Investment Enterprise Holdings Limited Address : Room 1505, 15/F, Metro Centre, Block 2, No. 21, Cam Hing Street, Hong Kong

Chapter 11. Governing Law

Clause 24 24.1 This Agreement shall be governed by and construed under the Laws of the Union of Myanmar and the Parties hereby submit to the jurisdiction of the relevant Court of Myanmar and all Courts competent to hear appeals therefrom.

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24.2 In the event that any provision of the Agreement is deemed invalid, unlawful or unenforceable under any applicable law, the validity, legality or enforceability of the remaining provisions of this Agreement shall not be affected or impaired and this Agreement shall be construed as if such invalid, unlawful or unenforceable provision had never been contained in this Agreement.

Chapter 12. Force Majeure

Clause 25 25.1 If either Party is temporarily rendered unable wholly or partly by Force Majeure to perform its duties or accept the performance by the other Party under this Agreement, it is agreed that the affected Party shall give notice to the other Party within 14 (fourteen) days after the occurrence of the cause relied upon, giving full particulars in writing of such Force Majeure, the duties of such Party as are affected by such Force Majeure shall, with the approval of the other Party, be suspended during the continuance of the disability so caused, as far as possible, be removed with all reasonable dispatch. Neither Party shall be responsible for delay damage or loss caused by Force Majeure.

25.2 The term, Force Majeure shall mean Act of God, war, strikes, lockout industrial disturbances, explosion, earthquake, flood, typhoon, fire, storm or other causes similar to the kind herein enumerated which are beyond the control of either Party and which by exercise of due care and diligence, either Party is unable to overcome.

Chapter 13. Mineral Resources and Treasures

Clause 26 26.1 Mineral resources, treasure, gems and other natural resources discovered unexpectedly from, in or under the Land during the Lease Period of the Agreement shall be the property to the Government of the Union of Myanmar and the Government of the Union of Myanmar shall be at liberty to excavate the aforesaid at any time.

Chapter 14. Protection of Environment

Clause 27 27.1 The Lessee shall be responsible for the protection and preservation of the environment in and around the Land, and shall be able to control pollution of air, water and land and not to cause any environmental degradation. The Lessee shall also take necessary measures in order to make environmental protection such as installation of the waste water treatment plant and other treatment procedures to keep the Land environmental friendly.

Chapter 15. Modification of the Agreement

Clause 28.- 28.1 In the event that any situation or condition arises due to circumstances not envisaged in this Agreement and that it warrants amendments to this Agreement, the Parties hereto shall make necessary negotiations with a view to making such necessary amendments.

Chapter 16. Retransfer of the Land

Clause 29 29.1 At the end of the Lease Period, the Lessee shall transfer the Land to Lessor within 3 (three) months in good condition, ground damages having been refilled or repaired.

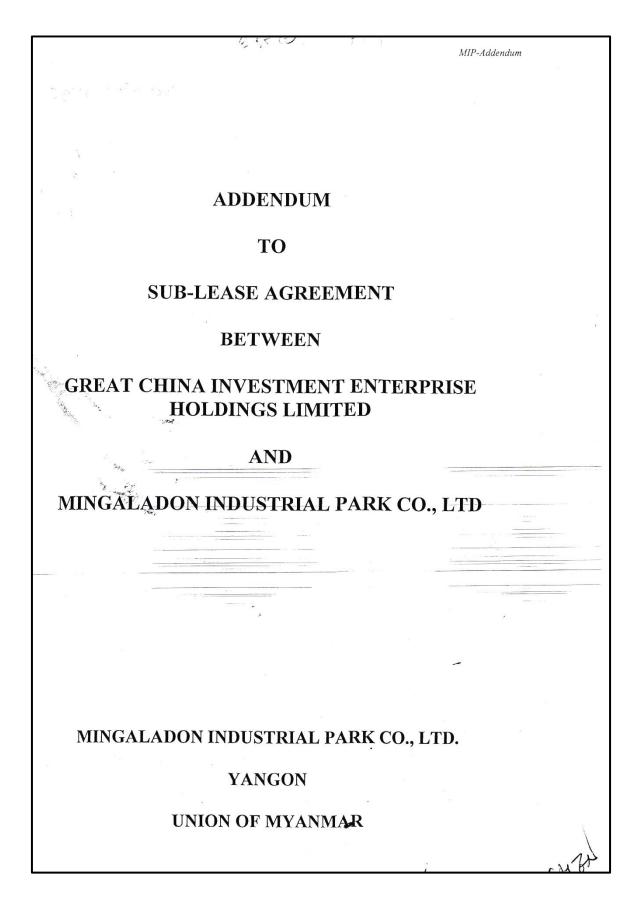
29.2 The Lessee shall have the right to be in possession and ownership of all movable properties which shall be removed at its own costs and/or disposed of within 3 (three) months, not affecting the Lessor's right to claim for the rent up to the date of complete evacuation and damages caused to the Land by the Lessee.

29.3 Notwithstanding the above Clause 29.1, a new agreement for further period may be negotiated and agreed upon between the Parties before the expiry of the Lease Period upon the request of the Lessee.

Chapter 17. Condition Precedent

Clause 30 30.1 This Agreement shall become valid upon signing by the Parties hereof and validity of this Agreement shall be subject to and conditional upon receipt of the approval from Myanmar Investment Commission.

ungalaaon maastrial rark Sub-lease Agreement - A2&A3 This Lease Agreement is made in triplicate having the same contents. Both Parties have read and thoroughly understood this document and the accompanying Estate Conditions of the MIP, and hereunto affix their signatures. Each Party shall keep one copy and the remaining one will be submitted to the official for registration. The Lessor: On and behalf of Mingaladon Industrial Park Co., Ltd. ----Win Myint Toshiyuki Oda Chairman Managing Director In the presence of: 7512 Lt. Col. Htin Aung Kyaw Director The Lessee: On and behalf of Great China Investment Enterprise Holdings Limited Helen Florence Chairman In the presence of: Eric Chen Managing Director EXHIBITS A: SITE PLAN OF MINGALADON INDUSTRIAL PARK B: PHYSICAL DELIVERY RECEIPT ESTATE CONDITIONS OF THE MINGALADON INDUSTRIAL PARK C: 12



Appendix 22 Addendum to Sub-Lease Agreement

Addendum to Sub-Lease Agreement

between

Great China Investment Enterprise Holdings Limited and

Mingaladon Industrial Park Co., Ltd.

This Addendum to Sub-Lease Agreement made between Great China Investment Enterprise Holdings Limited and Mingaladon Industrial Park Co., Ltd., (hereinafter referred to as the "Addendum") is made and issued in YANGON on the 3^{nd} day of December 2009,

between

Mingaladon Industrial Park Co., Ltd., located at Corner of No. 3 Highway Road & Khayebin Road, Mingaladon Township, Yangon, Union of Myanmar (hereinafter referred to as the "Lessor") on the one part;

and

Great China Investment Enterprise Holdings Limited, located at Room 1505, 15/F, Metro Centre, Block 2, No. 21, Cam Hing Street, Hong Kong (hereinafter referred to as the "Lessee") on the other part;

(The Lessor and the Lessee are hereinafter jointly referred to as the "Parties", including any successors by law to replace the "Parties" and individually referred to as the "Party".)

WHEREAS: The Lessor and the Lessee previously entered into a Sub-Lease Agreement for the lease of land, plot No. A-2 & A-3, (hereinafter referred to as the "Said Agreement") in the Mingaladon Industrial Park (hereinafter referred to as "MIP") on 19th March 2003;

WHEREAS: Since the execution of the original Said Agreement, there has been an expansion plan of the scope of work due to products' demand. As part of that expansion plan, the Lessee shall construct the additional structures and shall undertake additional responsibilities for the construction of extension structures in plot No. A-1 of the MIP;

WHEREAS: The Lessor is desirous to give the Lessee incentive to construct additional structures and to undertake additional responsibilities; and,

WHEREAS: For the purpose described above, the Parties desire to enter into this Addendum to the Said Agreement.

NOW THEREOF, in consideration of the promises and mutual covenants set forth, the Parties hereby agreed to add the Said Agreement as follows:

1.

Clause 1.4 of the following shall be added in Chapter 1, The Scope of the Agreement.

1.4 The Lessor agrees to lease, and the Lessee agrees to take on the lease of the land in the MIP, Plot No. A-1, according to the plan attached hereto as Exhibit A which is deemed as an integral part hereof with the total area of 22,095 square-meter (hereinafter referred to as the "Land") for a period commencing from the issuing date of the Physical Delivery Receipt and ending on the date 7th February 2048 (hereinafter referred to as the "Lease Period".)

2. Clause 3.3 and 3.4 of the followings shall be added in Chapter 3, Payment Terms.

3.3 In consideration for the Lessee's right to take on the lease of the Land, the Lessee shall pay the Land Use Premium US\$662,850.00 (United States Dollars Six Hundred and Sixty Two Thousand Eight Hundred and Fifty only) as follows:

a. FIRST INSTALMENT

The booking fee which has already been received by the Lessor under the Provisional Allotment amounting to US\$66,285.00 (United States Dollars Sixty Six Thousand Two Hundred and Eighty Five only) (hereinafter referred to as the "First Instalment") shall be appropriated for the First Instalment of 10%(ten percent) of the Land Use Premium on the date of signing this Addendum.

b. SECOND INSTALMENT

Within 14 days after signing of this Addendum, 50% (fifty percent) of the Land Use Premium amounting to **USS 331,425.00** (United States Dollars Three Hundred and Thirty One Thousand Four Hundred and Twenty Five only) shall be paid to the Lessor (hereinafter referred to as the "Second Instalment") failing which Lessor shall have the right to terminate at its own discretion and the First Instalment shall be forfeited.

c. FINAL INSTALMENT

Within 90 days after signing of this Addendum, 40% (forty percent) of the Land Use Premium amounting to **USS 265,140.00** (United States Dollars Two Hundred and Sixty Five Thousand One Hundred and Forty only) (hereinafter referred to as the "Final Instalment") shall be paid to the Lessor by the Lessee failing which the Lessor shall have the right to terminate this Addendum at its own discretion and the First Instalment and the Second Instalment shall be forfeited.

3.4 Each instalment of the Land Use Premium shall only be deemed to be received by the Lessor after the said amounts in full had been remitted and credited to the bank account of the Lessor at the bank designated by the Lessor.

3. Clause 4.2 of the following shall be added in Chapter 4, Annual Land Rent and Other Fees.

4.2 The Lessee shall pay the annual land rent (hereinafter referred to as the "Land Rent") on yearly basis at the rate of **US\$ 0.30** (thirty cents) per year per one square meter, i.e. **US\$6,628.50** (United States Dollars Six Thousand Six Hundred and Twenty Eight and Cents Fifty only) stipulated in Clause 1 herewith as well as the Management Fees and Utility Charges (hereinafter collectively referred to as the "Fees") to be paid in accordance with the estate conditions of the Mingaladon Industrial Park (hereinafter referred to as the "Estate Conditions") attached hereto as **Exhibit C.** The Lessee shall pay the Land Rent to the Lessor each year no later than the 5th day of December of the preceding year.

4. Clause 8.1(a) of the following shall be added in Chapter 6, Security of Annual Land Rent.

> Clause 8. 8.1(a) The Lessee agrees to provide a security deposit (hereinafter referred to as the "Security") to the Lessor on the date of the signing of this Addendum by means of cash deposit (hereinafter referred to as the "Cash Deposit") equivalent to the amounts to the Land Rent stipulated in Clause 4.2 and Clause 5 amounting US\$6,628.50 (United States Dollars Six Thousand Six Hundred and Twenty Eight and Cents Fifty only).

- 5. Unless specifically provided in this Addendum, all other terms and conditions specified in the Said Agreement shall remain unchanged and be in full force and effect.
- 6. This Addendum and the Exhibits shall form an integral part of the Said Agreement.
- 7. This Addendum is conditional upon receipt of all requisite approvals from relevant authorities in the Union of Myanmar.
 - This Addandum shall be affective on the date of signing this Addendur

MIP-Addendum This Addendum is made in triplicate having the same contents. Both Parties have read and thoroughly understood this document and the accompanying Estate Conditions of the MIP, and hereunto affix their signatures. Each Party shall keep one copy and the remaining one will be submitted to the official for registration. IN WITNESS WHEREOF, the Parties hereto have set their hands and affixed their seals by their duly authorized representatives on the day, month and year first mentioned above. ų The Lessor: For and On behalf of Mingaladon Industrial Park Co., Ltd. Win Zaw Shiges Hana Chairman Managing Director Uye Jol U ye Soe In the presence of: Director For and On behalf of Great China Investment Enterprise Holdings Ltd * The Lessee: ki Wang Otto Name: Mr. CHEN/ HS1-WANG Designation: Managing Director. Whimm? In the presence of: Name: Mr. Wiseman Hsu

1. State	MIP-Addendum
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EXHIBITS	
EAHIDITS A:	SITE PLAN OF MINGALADON INDUSTRIAL PARK
B:	PHYSICAL DELIVERY RECEIPT
C:	ESTATE CONDITIONS OF THE MINGALADON INDUSTRIAL PARK
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\$18 B MIPCL&MAOI AGREEMENT FOR THE PAYMENT OF LAND USE PREMIUM This Agreement is made on 26th of February ,2009 between Mingaladon Industrial Park Co., Ltd. and Myanmar Asia Optical International Co., Ltd. only for the Payment of Land Use Premium concerning the Plot No. A-1 of Mingaladon Industrial Park which is to be leased to Myanmar Asia Optical International Co., Ltd. Here, "Payment" refers to the payment to be made for the lease of the Plot No. A-1 of Mingaladon Industrial Park. "MIPCL" means Mingaladon Industrial Park Co., Ltd. who is the Lessor of the Plot No. A-1. "MAOI" refers to Myanmar Asia Optical International Co., Ltd. who is a tenant of Mingaladon Industrial Park Co., Ltd. and the Lessee of the Plot No. A-1. "All parties" refers to the organizations or entities pertaining to this Agreement; namely Mingaladon Industrial Park Co., Ltd., Myanmar Asia Optical International Co., Ltd., Asia Optical International Co., Ltd., and Great China Investment Enterprise Holdings Ltd. This Agreement is governed by the following terms and conditions. 1. All parties shall comprehend, recognize and agree that Asia Optical International Co., Ltd. is the mother company of both MAOI and Great China Investment Enterprise Holdings Ltd. 2. Hence, the Payment accepted by MIPCL for the lease of the said plot is executed by Asia Optical International Co., Ltd. on behalf of MAOI and Great China Investment Enterprise Holdings Ltd. 3. If it is necessary to settle any kind of problems concerning the Payment, it is the sole and only responsibility of MAOI. 4. It shall be agreed that no other amendments of Companies' names in other contracts made for the lease of the Plot No. A-1 is required. Shigeo HANA Wiseman Hsu Mahaging Director Director Mingaladon Industrial Park Co., Ltd. Myanmar Asia Optical Int'l Co., Ltd.

Appendix 23 Water Quality Result (ALARM Ecological Laboratory) for Factory-1

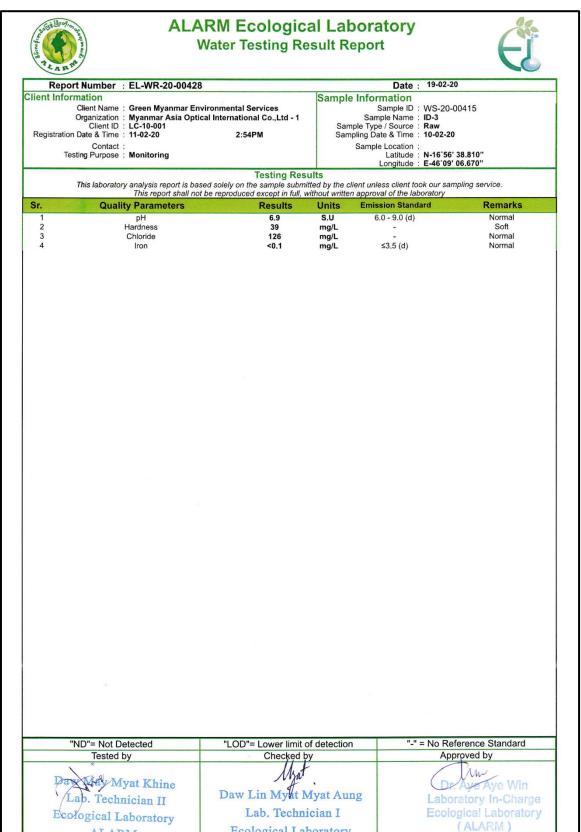
Treated Water Outlet (WSP-1)

and the second s	A LAND		ARM Ecologica Water Testing Res	I Labora	atory t	Ê
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B	cological L	aboratory	Lab. Technic			Ecological Laboratory

Treated Water Inlet (WSP-2)

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Raw Water (WSP-3)



Wastewater Treatment Outlet (WSP-4)

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LAR					
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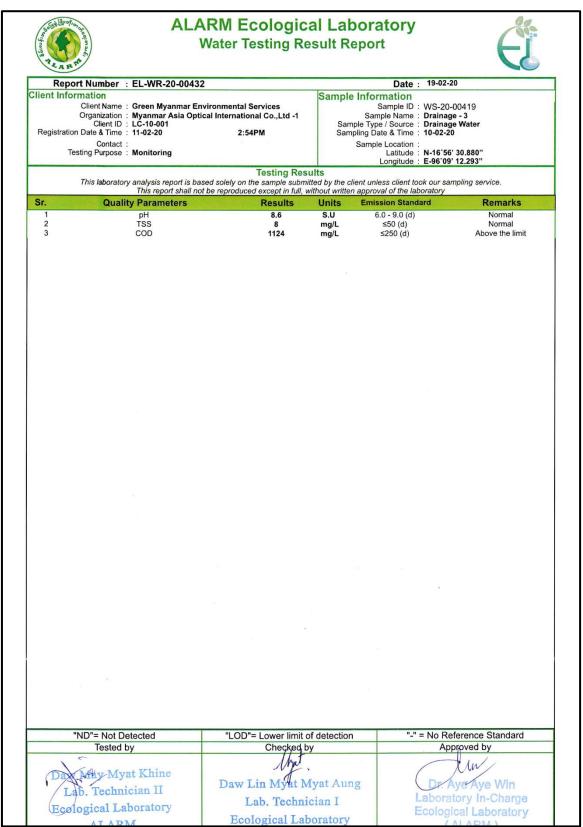
Wastewater Treatment Inlet (WSP-5)

ALARM Ecological Laboratory Water Testing Result Report								
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Kitchen Outlet Drainage 5 (WSP-6)

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Drainage 3 (WSP-7)



Tubewell (WSP-8)

Blinkinger	AR M	A		l Ecologi er Testing F				E
Client	Organization Client ID tration Date & Time	: Green Myanma : Myanmar Asia : LC-10-001 : 21-02-20 : 9897978296	r Environme	mational Co.Ltd - 1 11:43 AM	Sample Samplir Sa	Sample Name : Type / Source : ng Date & Time : ample Location : Latitude :	WS-20-00459 D-8 (TubeWell) Well 14-02-20	
	This laborator	y analysis report i	is based sole	Testing Re ly on the sample sub	mitted by the clien	t unless client to	ok our sampling s	ervice.
Sr.	Quality Paramet	And the second se	all not be repr	oduced except in ful Results	THE REAL PROPERTY OF THE PROPERTY OF THE REAL PROPE	inking Stand	CONTRACTOR OF THE OWNER OF THE OWNER	Remarks
1 2 3 4	pH Chloride Iron Hardness			6.8 132 <0.1 170	S.U mg/L mg/L mg/L	6.5 - 8.5 (b) ≤250 (b) ≤0.3 (b) ≤500 (c)		Normal Normal Normal
	"ND"= Not De	etected	"	_OD"= Lower limi	t of detection	"_" ,	= No Reference	e Standard
	Tested b			Checked			Approved	
	Jaw Mys Itab. Techni Scological La	cian II		w Lin Myat I Lab. Techn Ecological La	ician I		aboratory in cological La (ALARI	boratory

Factory Wastewater (WSP-9)

Fruigs TLARM		Water Tes	ting Re	sult Re	port		E
Report N	umber : EL-WR-20-00	0472			Date	: 03-03-20	
lient Informa Cli Org Registration Da		ar Environmental Serv	Co.Ltd -2	Samp Samp	Information Sample ID Sample Name ple Type / Source bling Date & Time Sample Location Latitude	: WS-20-004 : D-9 (Factory : Waste : 14-02-20	y Waste Water) 59"
Th	is laboratory analysis report is	Te	esting Resu	Its			NAMES OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY.
Sr.	This report sha Quality Parameters	all not be reproduced ex	xcept in full, wit	ithout written	approval of the lab	boratory	
1 2 3	pH TSS COD	, F	Results 7.4 4 1600	Units S.U mg/L mg/L	Emission Stand 6.0 - 9.0 (d) ≤50 (d) ≤250 (d)	ard	Remarks Normal Normal Above the limit
the second se	= Not Detected		ower limit of c	detection	"_" =		nce Standard
	Tested by		Checked by			Approve	
Daw M	What Khine		Myat Mya			NV.	/

Appendix 24 Water Quality Result (ALARM Ecological Laboratory) for Factory-2

Tubewell (WSP-1)

2010 2 10 10 10 10 10 10 10 10 10 10 10 10 10	AL	ARM Ecologica Water Testing Res	al Lab	oratory		
TLARM			suit Re	port		E
Report Number	: EL-WR-20-004	66		Date	03-03-20	
Client ID Registration Date & Time	: Myanmar Asia Op : LC-10-001 : 21-02-20 : 9897978296	Environmental Services otical international Co.Lt-2 11:43 AM	Samp Sampl	Information Sample ID Sample Name le Type / Source ling Date & Time Sample Location	WS-20-00454 ID-1 (TubeWell) Well 14-02-20 N16°56'23 5'	
This laborator	y analysis report is b	Testing Result ased solely on the sample submitte	11.11 11		E96°09'25.2'	
Sr. Quality Paramet		not be reproduced except in full, with Results	iout written a	rinking Standa	oratory	
1 pH		7.6	S.U	6.5 - 8.5 (b)	ards F	Remarks
2 Hardness 3 Chloride 4 Iron		50 137 <0.1	mg/L mg/L mg/L	5.3 - 8.3 (b) ≤500 (c) ≤250 (b) ≤0.3 (b)		Normal Normal Normal
	t,					
"ND"= Not Dete Tested by	cted	"LOD"= Lower limit of de Checked by	tection	"-" = N	lo Reference Sta ,Approved by	andard
Daw Ayer Tayat K Lab. Teunician Ecological Labora ALARM	II	Daw Lin Myat Myat J Lab. Technician		Lab	Ave Ave V oratory In-Cl logical Labor	harge

Drainage Water (WSP-2)

ARNI STAR		ARM Ecologic Water Testing Re	esult F	Report	Ē
Client Information Client N Organizz Clien Registration Date & 1 Cor	ame : Green Myanmar ation : Myanmar Asia O	167 Environmental Services ptical International Co.Ltd - 2 11:43 AM	Sar	e Information Sample ID	14-02-20
	pratory analysis report is I	Testing Resi based solely on the sample submit not be reproduced except in full. w		Latitude : Longitude :	N16° 56' 25.3" E96° 09' 24.2"
Sr. Q	This report shall i uality Parameters	not be reproduced except in full, w Results	anout minter	approvar or the lab	oratory
1 2 3	pH TSS COD	7.4 0 112	Units S.U mg/L mg/L	Emission Standa 6.0 - 9.0 (d) ≤50 (d) ≤250 (d)	ard Remarks Normal Normal Normal
"ND"= Not De Tested b		"LOD"= Lower limit of de	ection	"-" = No	Reference Standard
	t Khine	Checked by			Approved by

Treated Water (WSP-3)

All ARTIN		ARM Ecologica Water Testing Res			E
Report Nu	mber : EL-WR-20-0046	8		Date :	03-03-20
Orga C Registration Date	tt Name : Green Myanmar Ei nization : Myanmar Asia Opt Client ID : LC-10-001 & Time : 21-02-20 Contact :		Sample Samplir	Sample Name : Type / Source : ng Date & Time : ample Location :	14-02-20
Testing F	Purpose : For Standard				N16°56'25.3" E96°09'24.2"
This	laboratory analysis report is ba This report shall ne	Testing Resu ased solely on the sample submitt ot be reproduced except in full, wi	ed by the clien	t unless client to pproval of the lat	ok our sampling service. poratory
Sr.	Quality Parameters	Results		Emission Stand	
1 2 3 4	pH Hardness Chloride Iron	8.3 40 70 <0.1	S.U mg/L mg/L mg/L	6.0 - 9.0 (d) - ≤3.5 (d)	Normal - - Normal
יירואיי	= Not Detected	"LOD"= Lower limit of	f detection	"_u	= No Reference Standard
	Tested by	Checked by		-	Approved by
Teh	Myat Khine Spriician II al Laboratory	Daw Lin Myat My	vat Aung	E	Dr. Madyo Win Coratory In-Charge cological Laboratory

Wastewater Outlet (WSP-4)

ALA	RM						
ent In	formation Client Name : Organization :	:	Environmental ptical internation	al Services ional Co.Ltd - 2 1:43 AM	Sam	Sample Name : nple Type / Source : npling Date & Time : Sample Location : Latitude :	: WS-20-00457 : D-4 (Waste Water Outlet) : Treated : 14-02-20
	This laborator				bmitted by the cli	lient unless client to	ook our sampling service.
r.						n approval of the lab Emission Stand	boratory
1 2 3		pH TSS COD		7.9 0 54	S.U mg/L mg/L	6.0 - 9.0 (d) ≤50 (d) ≤250 (d)	Normal Normal Normal
	, a						
	"ND"= Not De		"LOD	D"= Lower limit		"_"	= No Reference Standard
	Tested b	<u>y</u>		Checked	by it		Approved by

Wastewater Inlet (WSP-5)

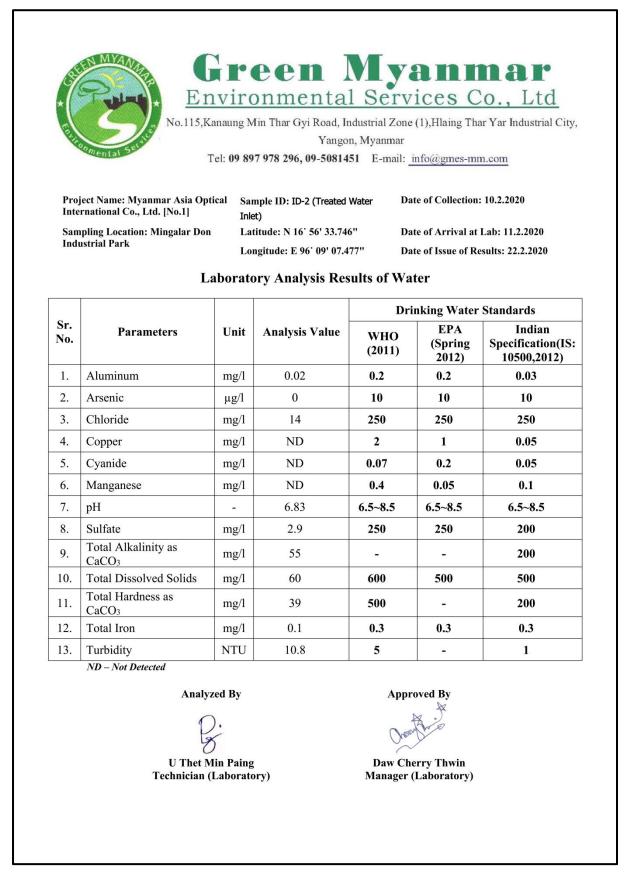
THE AR M		Water Testing	Result Re	eport	(F)	
Report Nurr	ber : EL-WR-20-004	470		Dut	03-03-20	
Lient Information Client I Organiz Clie Registration Date & Cc	1 Name : Green Myanmar zation : Myanmar Asia O ant ID : L C-10-001	Environmental Services optical international Co.Ltd - 11:43 AM	• 2 Sam	A Information Sample ID : \ Sample Name : I ple Type / Source : 1 oling Date & Time : 1 Sample Location : Latitude : N	WS-20-00458 D-5 (WasteWater inlet) Ireated I4-02-20 V16°56 25.3"	
This lat	oratory analysis report is	Testing I	Results	Longitude : E		
Charles and the second second second second	This report shall	based solely on the sample so not be reproduced except in f	ull, without written	approval of the labor	atory	
1 2 3	pH TSS COD	7.9 711 75	S.U mg/L mg/L	Emission Standard 6.0 - 9.0 (d) ≤50 (d) ≤250 (d)	d Remarks Normal Above the limit Normal	
"ND"= Not Detected		"LOD"= Lower limit		"-" = No Reference Standard		
	ed by	Checked	by	Approved by		
Daw May M	stat Khine nician II	Daw Lin My It N	Vivat Aung	6	Ave Win	

Appendix 25 Water Quality Result (GMES Laboratory) for Factory-1

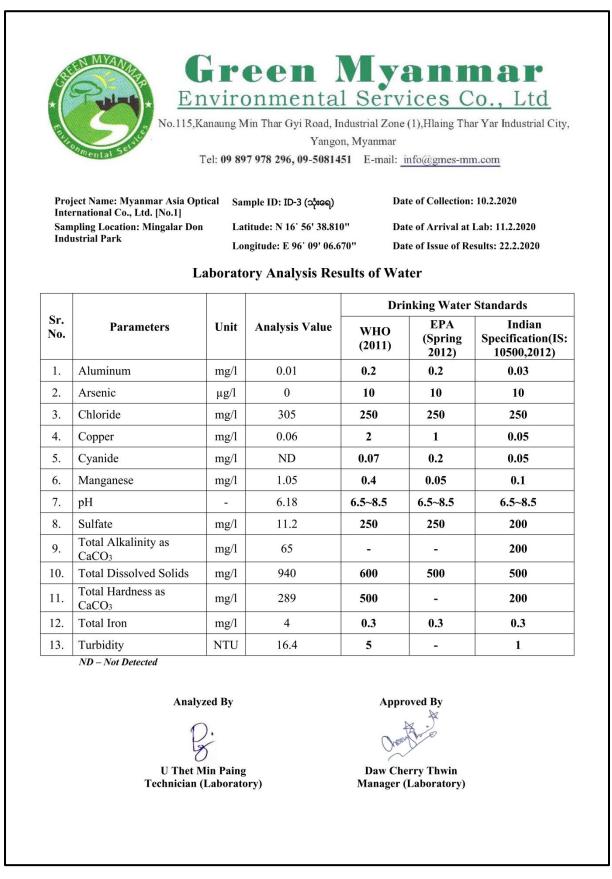
Treated Water Outlet (WSP-1)

Entit	No.115,K	anaung N	een onmenta Iin Thar Gyi Road, Ir Yango 7 978 296, 09-50814	ndustrial Zone n, Myanmar	(1),Hlaing Tha	ur Yar Industrial City	
Inte San	ject Name: Myanmar Asia Op rnational Co., Ltd. [No.1] upling Location: Mingalar Don ustrial Park	Out La Lo	mple ID: ID-1 (Treated tlet) ngitude: N 16' 56' 32.80 ngitude: E 96' 09' 07.5 Dry Analysis Res	0'' Da 664'' Da	ite of Collection: ite of Arrival at ite of Issue of Re ter	Lab: 11.2.2020	
				Drinking Water Standards			
Sr. No.	Parameters	Unit	Analysis Value	WHO (2011)	EPA (Spring 2012)	Indian Specification(IS 10500,2012)	
1.	Aluminum	mg/l	0.02	0.2	0.2	0.03	
2.	Arsenic	μg/l	0	10	10	10	
3.	Chloride	mg/l	22	250	250	250	
4.	Copper	mg/l	ND	2	1	0.05	
5.	Cyanide	mg/l	ND	0.07	0.2	0.05	
6.	Manganese	mg/l	ND	0.4	0.05	0.1	
7.	pН	-	6.33	6.5~8.5	6.5~8.5	6.5~8.5	
8.	Sulfate	mg/l	ND	250	250	200	
9.	Total Alkalinity as CaCO ₃	mg/l	28	- 1	-	200	
10.	Total Dissolved Solids	mg/l	50	600	500	500	
11.	Total Hardness as CaCO ₃	mg/l	14	500	-	200	
12.	Total Iron	mg/l	<0.1	0.3	0.3	0.3	
13.	Turbidity	NTU	9.27	5	-	1	
	ND – Not Detected						
	Analy	zed By		Appr	roved By		

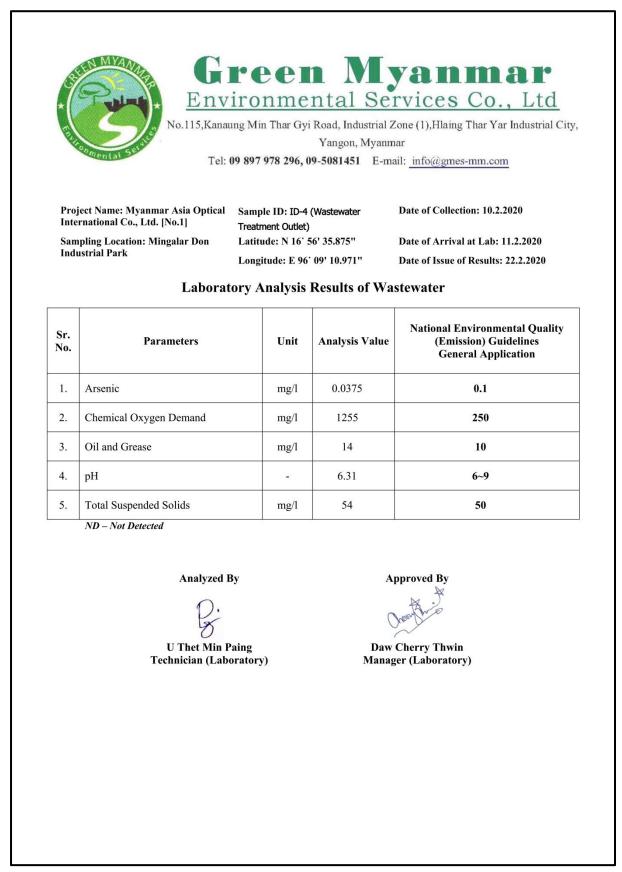
Treated Water Inlet (WSP-2)



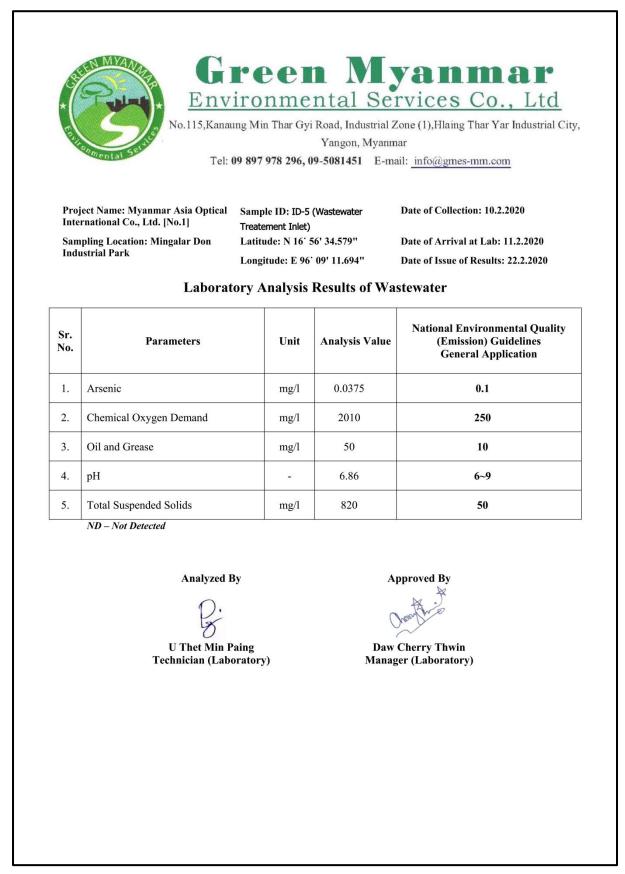
Raw Water (WSP-3)



Wastewater Treatment Outlet (WSP-4)



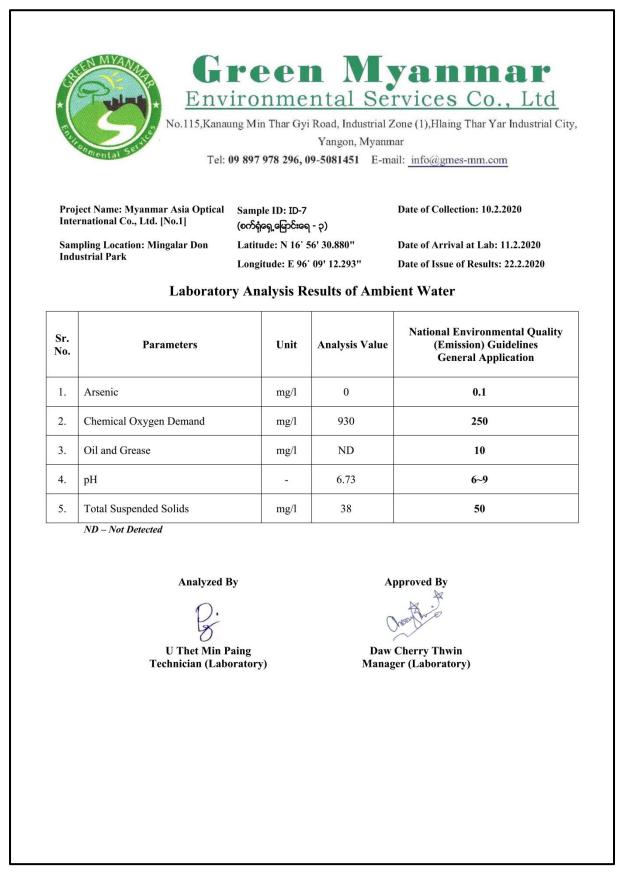
Wastewater Treatment Inlet (WSP-5)



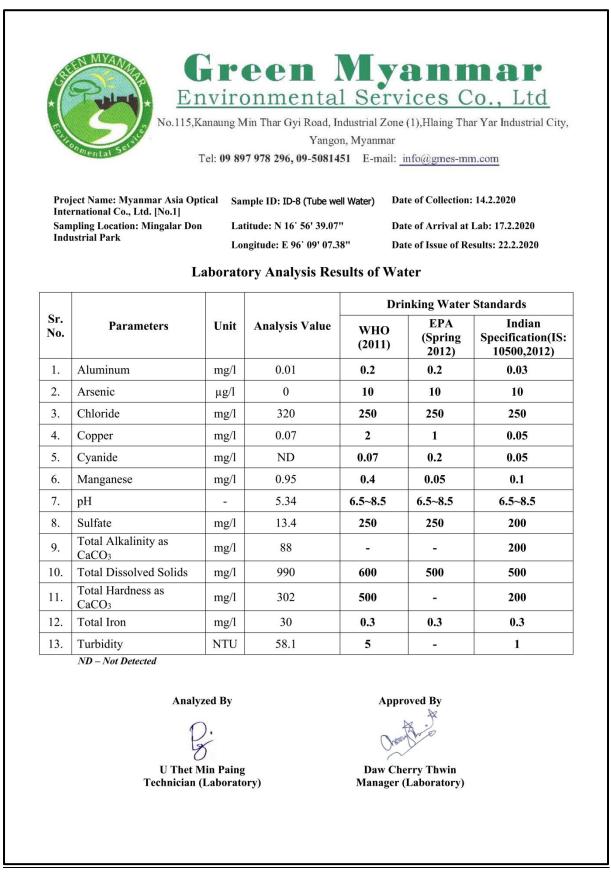
Drainage 5 (WSP-6)



Drainage 3 (WSP-7)



Tubewell (WSP-8)



Drainage 1 (WSP-9)



Appendix 26 Water Quality Result (GMES Laboratory) for Factory-2

Tubewell (WSP-1)

(III)	No.115,1	Kanaung N	/in Thar Gyi Road, I Yango	ndustrial Zon on, Myanmar	e (1),Hlaing Th	ar Yar Industrial Cit		
	- Contractor	Tel: 09 89	07 978 296, 09-50814	151 E-mail:	info@gmes-m	m.com		
	Project Name: Myanmar Asia Optical Sample ID: ID-1 (Tube well Water) Date of Collection: 14.2.2020 International Co., Ltd. [No.2]							
	npling Location: Mingalar Do ustrial Park		titude: N 16' 56' 23.5"		ate of Arrival at			
		Lo	ngitude: E 96' 09' 25.2	2" Da	ate of Issue of R	esults: 22.2.2020		
	I	aborate	ory Analysis Re	sults of Wa	nter			
Drinking Water Standards						Standards		
Sr. No.	Parameters	Unit	Analysis Value	WHO (2011)	EPA (Spring 2012)	Indian Specification(IS 10500,2012)		
1.	Aluminum	mg/l	0.01	0.2	0.2	0.03		
2.	Arsenic	µg/l	0.01	10	10	10		
3.	Chloride	mg/l	160	250	250	250		
4.	Copper	mg/l	ND	2	1	0.05		
5.	Cyanide	mg/l	ND	0.07	0.2	0.05		
6.	Manganese	mg/l	0.8	0.4	0.05	0.1		
7.	pH	-	6.01	6.5~8.5	6.5~8.5	6.5~8.5		
8.	Sulfate	mg/l	ND	250	250	200		
9.	Total Alkalinity as CaCO ₃	mg/l	78	-	-	200		
10.	Total Dissolved Solids	mg/l	590	600	500	500		
11.	Total Hardness as CaCO ₃	mg/l	197	500	-	200		
12.	Total Iron	mg/l	3	0.3	0.3	0.3		
13.	Turbidity	NTU	10.7	5	-	1		

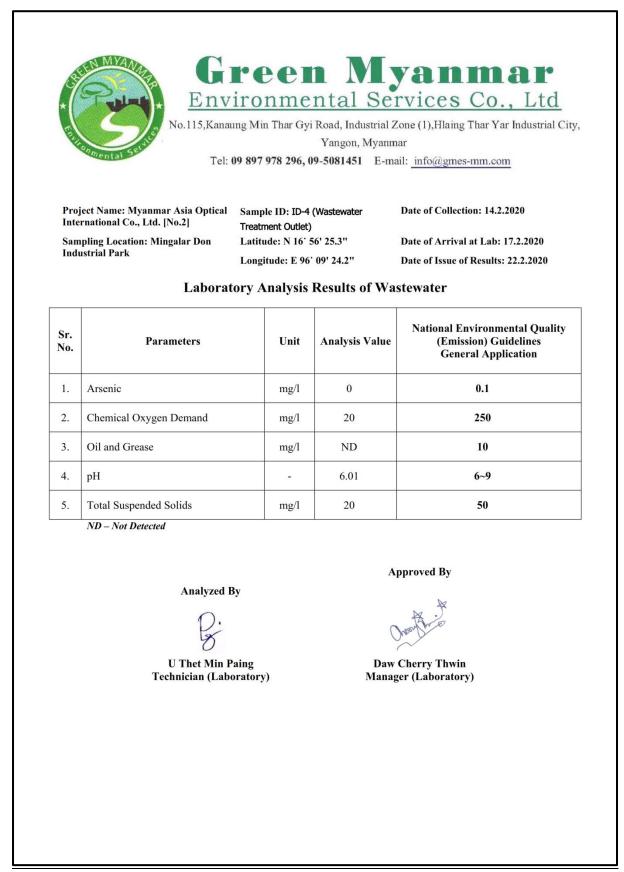
Drainage Water (WSP-2)



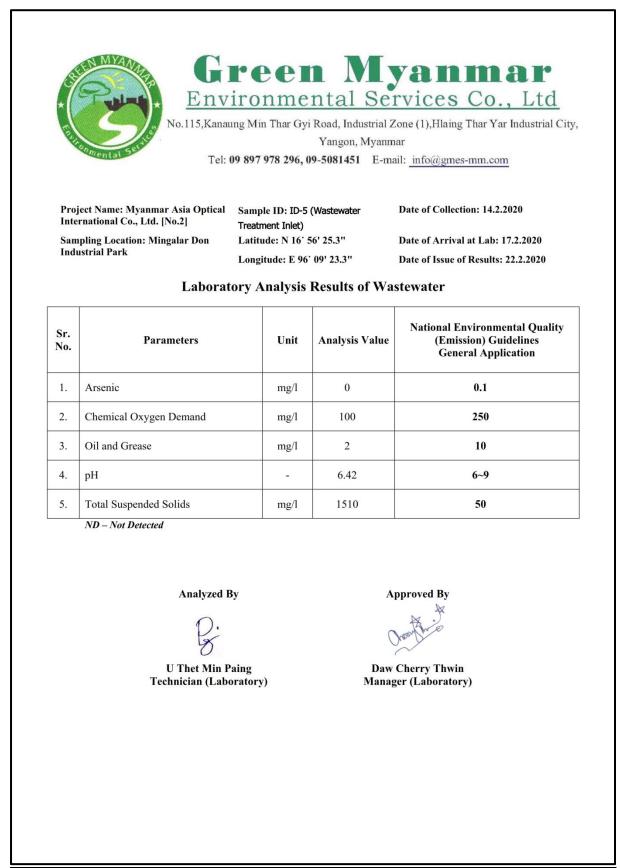
Treated Water (WSP-3)

Tel: 09 897 978 296, 09-5081451 E-mail: info@gmes-mm.com								
	ject Name: Myanmar Asia Op ernational Co., Ltd. [No.2]	tical Sa	mple ID: ID-3 (Treated	Water) Da	te of Collection	: 14.2.2020		
	pling Location: Mingalar Dor ustrial Park		titude: N 16' 56' 25.3"			Lab: 17.2.2020		
		Lo	ngitude: E 96' 09' 24.2	2" Da	te of Issue of R	esults: 22.2.2020		
	L	aborate	ory Analysis Re	sults of Wa	ter			
				Drinking Water Standards				
Sr. No.	Parameters	Unit	Analysis Value	WHO (2011)	EPA (Spring 2012)	Indian Specification(IS 10500,2012)		
1.	Aluminum	mg/l	0.02	0.2	0.2	0.03		
2.	Arsenic	μg/1	0	10	10	10		
3.	Chloride	mg/l	8	250	250	250		
4.	Copper	mg/l	ND	2	1	0.05		
5.	Cyanide	mg/l	ND	0.07	0.2	0.05		
6.	Manganese	mg/l	ND	0.4	0.05	0.1		
7.	рН	-	5.72	6.5~8.5	6.5~8.5	6.5~8.5		
8.	Sulfate	mg/l	ND	250	250	200		
9.	Total Alkalinity as CaCO ₃	mg/l	15	-	-	200		
10.	Total Dissolved Solids	mg/l	10	600	500	500		
11.	Total Hardness as CaCO ₃	mg/l	12	500	-	200		
12.	Total Iron	mg/l	<0.1	0.3	0.3	0.3		
13.	Turbidity	NTU	8.86	5	-	1		

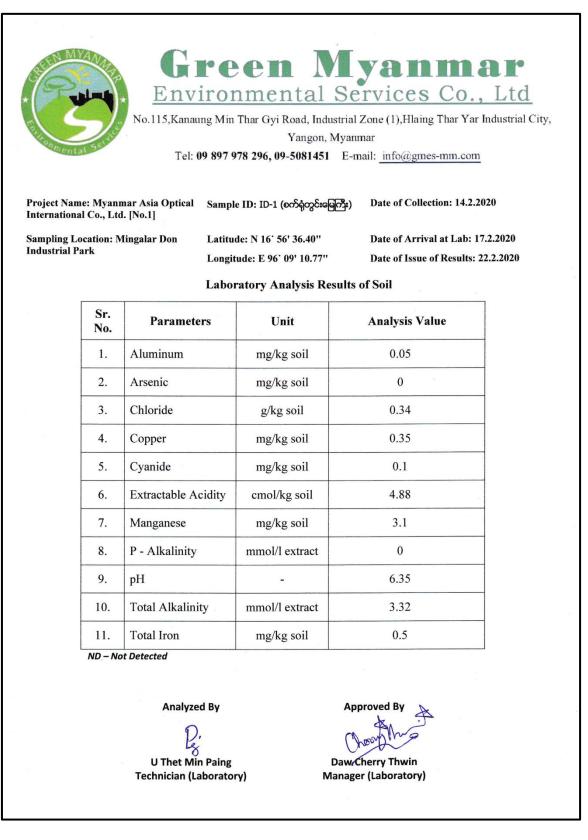
Wastewater Outlet (WSP-4)



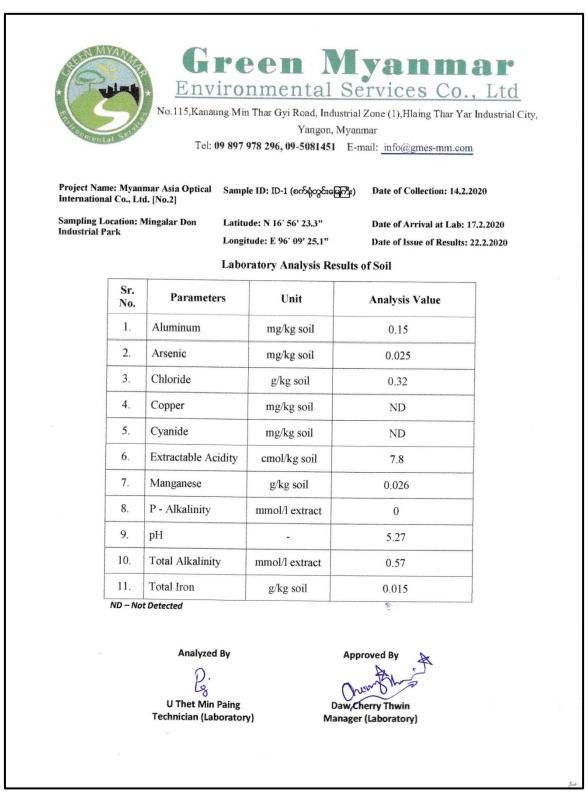
Wastewater Inlet (WSP-5)



Appendix 27 Soil Quality Result (GMES Laboratory) for Factory-1



Appendix 28 Soil Quality Result (GMES Laboratory) for Factory-2



Appendix 29 Attendance List from Employee Discussion Program

THE REAL	and the second s		Road, Industrial Zone (1), Hlaing Thar Ya Yangon, Myanmar 1 E-mail: gmescompany@gmail.com, info	
• M	yanmar Asia Optical Inte ດໂມດາດີຮັບລູໂລ້ຜສຸຮິສອຸຣິ	mational Co., Ltd. (Environmental M	″ ၏ မှန်ဘီလူးအမှိုးမိုးထုတ်လုပ်ခြင်းလု lanagement Plan – EMP) ရေးဆွဲခြင်းန	မိငန်းအတွက် င့်ပတ်သက်၍
	ဝန်ထမ်းများ၏ လုပ်ငန်	မွန်ဆိုင်ရာ အကြံပြ	ရက်များရသူခြင်း တက်ရောက်သူများတ ရက်စွဲ - ၂၀၂၀ ခုနှစ်	၊ ဖတ်လ (၁၂) ရက်
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05	and milding and and	Continental Managa		B.2
			ment Plan – EMP) ရေးချွေများမှာ အရယူရြင်း တက်ရောက်သူများမှာ	coosta a
	ဝန်ထမ်းများ၏ လုပ်င	န်းစိုင်ဆိုင်ရာ အကြာပြုမျီးသမျီး	346 01 01 - 6000	်၊ ဖတ်လ (၁၂) ရက်
				လက်မှတ်
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Green Myanmar Environmental Services Co., Ltd

Environmental Services Co., Ltd No.115, Kanaung Min Thar Gyi Road, Industrial Zone (1), Hlaing Thar Yar Industrial City, Yangon, Myanmar Tel: 09 897 978 296, 09-5081451 E-mail: genecompany@gmail.com.info@gmes.mm.com

" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအခြံခရိမှုလှတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ယင်ဝန်မာကွန်ပိမ်ခန့်မှုတစ်စာဝဠ် (Environmential Management Plan – BMP) ရေးအိုခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းမှာ၏ လုပ်ငန်းနှင့်ထိုင်ရာ အကြံမြရှက်ချားရသူမြင့် သက်ရောက်သူများကရင်း

ရက်စွဲ - ၂၀၂၀ ခုနစ်၊ ဖတ်လ (၁၂) ရက်

οδ	కాలన్	လုပ်ငန်းခွင်ဌာန	ခန္စရစ်လိစ်တ	လက်မှတ်
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2	Su Mon Zaw	Grinding	ဖင်္ဂ၊တဒ္ဓက်မှုရှန်	Su
3	Nove Nove Tun	Comenting	unan zangers	loin
		-		
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Green Myanmar

Environmental Services Co., Ltd No.115, Kanaung Min Thar Gy Road, Industrial Zone (1), Hlaing Thar Yar Industrial City, Yangon, Myanmar Tel: 09 897 978 296, 09-5081451 E-mail: <u>mescompariziannil com. info@emes-mm.com</u>

* Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူအချိန်မြဲထုတ်လုပ်ရှိပြီးလုပ်ငန်အတွက် ဝတ်ဝန်မာရှစ်ပိစ်မှန်ခွဲဖွဲ့အစီတာဝဉ် (Environmental Management Plan – EMP) စရေးရှိခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းမူဘ၏ လုပ်ငန်းနှင့်လိုင်ရာ အကြံပြရက်များရသူမြီး၊ လက်ရောက်သူများကရင်း

ရက်စွဲ - ၂၀၂၀ ခုနှ	စ်၊ မတ်လ (၁၂) ရက်
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οð	ఇంటర్	လုပ်ငန်းစွင်ဌာ န	နေရင်လိပ်စာ	လက်မှတ်
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			ntal Services Co Road, Industrial Zone (1), Hlaing Thar Ya	
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• M	yanmar Asia Optical Inte	mational Co., Ltd.	" ၏ မှန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်းလု	ပင်န်းအတွက်
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-			Road, Industrial Zone (1), Hlaing Thar Ya Yangon, Myanmar	ar Industrial City,
* My იინი	anmar Asia Optical Inte	mational Co., Ltd. (Environmental M	l E-mail: <u>gmescompany@gmail.com, info</u> " ၏ မှန်ဘီလူးအမှိုးမျိုးထုတ်လုပ်ခြင်းလု lanagement Plan – EMP) ခရာဆွဲခြင်း၊ ရက်များရယူခြင်း တက်ခရောက်သူများမာ	မိငန်းအတွက် နှင့်ပတ်သက်၍
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ရက်စွဲ - ၂၀၂၀ ခုနှစ်၊ ဖတ်လ (၁၂) ရက်

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nar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအမျိုးမိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကျင်စီမံစန့်ခွဲမှုအစီအစဉ် (Environmental Management Plan – EMP) ရေးဆွဲဖြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုရက်များရသူမြင်း တက်ရောက်သူများစာရင်း

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" M სიზ	yanmar Asia Optical Inte	mational Co., Ltd. "	E-mail: <u>gmescompany@gmail.com, inf</u> အ် မှန်ဘီလူးအမှိုးမိုးထုတ်လုပ်မြင်း လု	
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" Myanmar Asia	Optical Inte	ernational Co., Ltd. '	၏ မှန်ဘီလူးအမျိုးမျိုးထုတ်လုပ်ခြင်းက	ပုပ်ငန်းအတွက်
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ရက်စွဲ - ၂၈၂၈ ခုနှစ်၊ မတ်လ (၁၂) ရက်

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P	and the second s	050 2	yi Road, Industrial Zone (1), Hlaing Thar Yar Yangon, Myanmar 51 E-mail: gmescompany@gmail.com, info@	
" M სიე	yanmar Asia Optical Inte	mational Co., Ltd	. " ၏ မှန်ဘီလူးအအိုးမှိုးထုတ်လုပ်ခြင်းလုပ် Management Plan – EMP) စရားခွဲဖြင်းနှင့် ဖြရက်များရယူမြင်း တက်ရောက်သူများတရ ရက်ခွဲ – ၂၀၂၀ ခုနှစ်၊ ဖ	ငန်းအတွက် ပတ်သက်၍ င်း
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" Mე ათნ	vanmar Asia Optical Inte	mational Co., Ltd. "	E-mail: gmcscompany@gmail.com, info@ (၏ မှန်ဘီလူးအမှိုးမိုးထုတ်လုပ်ခြင်းလုပ် inagement Plan – EMP) စရာဆိုခြင်းနှင့်	န်းအတွက် ပတ်သက်၍	
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Green Myanmar Environmental Services Co., Ltd

No.115, Kanaung Min Thar Gyi Road, Industrial Zone (1), Hlaing Thar Yar Industrial City, Yangon, Myanmar Tel: 09 897 978 296, 09-5081451 E-mail: gmescompany@gmail.com, info@gmes-mm.com " Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးဆရီမှုရှိမှုသုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းတွင်ပိစ်ရန်မှုအစီအစဉ် (Environmental Management Plan – EMP) စနော်မြင်းနှင့်ပတ်သက်၍

ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုရက်များရသူခြင်း တက်ရောက်သူများစာရင်း

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* Myanmar Asia Optical International Co., Ltd. * အံ မှန်ဘီလူအားရိုးရှိနေတဲ့တိုလိုမြင်းလုပ်ငန်အားလွက် ဟဝ်ဝန်မာအုန်မိမ်ခန့်မှဲအစီအစဉ် (Environmental Management Plan – EMP) ရေးရဲမြင်းနှင့်ဟာသက်၍ ဝန်ထမ်းမှား၏ လုပ်ငန်းစွင်ဆိုင်ရာ အကြံမြရက်နားရသူမြင်း တက်ရောက်သူများတရင်း

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 Myanmar Asia Optical International Co., Ltd. * σi φ\$-55χμαφμαφιορδηγράζειαγός

ပတ်ဝန်းကူစ်စီခံနေနဲ့မှုအစီအဝဉ် (Environmental Management Plan – EMP) ရေးဆွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထစ်းများ၏ လုပ်ငန်းစွစ်ဆိုင်ရာ အကြံပြုံရက်များရယူမြင်း တက်ရောက်သူများစာရင်း

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ို Myanmar Asia Optical International Co., Ltd. * ၏ ခုန်ဘီလူအချီးမှိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် လက်န်းကျင်မိမ်နေ့ဖွဲ့မှုအမီအစဉ် (Environmental Management Plan – EMP) ရေးဆွဲခြင်းနှင့်ဟာသက်၍ စန်ထမ်းမှာအ၏ လုပ်ငန်းမှင်ထိုင်ရာ အကြံမြေရက်နားရလူခြင်း တက်ရောက်သူများစာရင်း

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Appendix 30 Suggestion Letters from Employee Discussion Program

Green Mya <u>Environmental Servic</u> No.115, Kanaung Min Thar Gyi Rod, Industrial Zore (1), Tel: 09 897 978 296, 09-5081451 E-mail: <u>unecompany@in</u>	es Co., Ltd Hlaing Thar Yar Industrial City,	Environn No.115, Kanaung Min Th	en Myanmar nental Services Co., Ltd ar Gyi Road, Industrial Zone (1), Hlaing Thar Yar Industrial City, Yangon, Nyamar 081451 E-mail: gmescompany@gmail.com, info@gmes-mm.com
ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအခရိုးမျိုးထု ယာ်ဝန်းကုန်ငံနိုင်နန်နိုင်နော် ဝန်ထမ်းစွာကြေးခြင်းနှင့်နိုင်နန်နိုင်နော်ကို ကျောက်ချားကျောက်များရာကျောက်များရာကျ) ရေးဆွဲခြင်းနှင့်ပတ်သက်၍ ပတ်ဝန်းကျင်	စီပံခန့်ခွဲမှုအစီအစဉ် (Environmen	, Ltd. " ၏ မှန်ဘီလူးအမျိုးမိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ital Management Plan – EMP) ရေးဆွဲခြင်းနှင့်ပတ်သက်၍ နွင်ဆိုင်ရာ အကြံပြုရက်များရသူခြင်း
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လုပ်သက် ဆက်သွယ်ရန်လိပ်မ			

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ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအအိုးဖို့မှာထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကျင်ပိပ်ခန့်ခွဲအဆီအဝဉ် (Environmental Management Plan – EMP) ခရာဆွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းနှင့်ရာ အကြံပြုချက်များရယူခြင်း	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအအိုးရိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကျင်စိမ်နေနဲ့ခွဲမှအစီအငှိ (Environmental Management Plan – EMP) နေးဆွဲခြင်းနှင့်ပတ်သက်၍ ဝန်တမ်းများ၏ လုပ်ငန်းနှင့်ဆိုင်ရာ အကြံပြဲမျက်များရပည်ကြီး
အ လုပ်ဝန်းခွင်အုန်မာအေနနှင့်အေးအန္တရာယ်တာကွယ်ရေးမှုလုပ်းများနှင့်ပင်းနှင့်းရှိအကြံမြရက် (က) လုပ်ငန်းခွင်အကာအကွယ်မှု _{လုပ်} များဘားမျှ မက္ကို (၂၀၀)K များကြေးကောင်း၊ ရက္ကြ ၂၀၀န်းခွင်အကမေရာ မက္ကြ (စ) အားကိုသုံးရေ-ပိုလြို့ဆိုးကေးေဘားရဲ့ ကွေ့ကြွန်းကြေးကြေးကြားကြေးေကြာင်း ၂၀၀န်းနှင့်လက္ကက တို့ပြံကမ် (၈) သန့်စင်ရန်းများ စီးဏင်း မျီတွင်ကြေးကြားကြင်း ရေအများကြေးကြေးကြေးကြောင့် (၈) သန့်စင်ရန်းများ စီးဏင်း မျီတွင်ကြေးကြေးကြေးကြောင့် ကြောက်ကြောက်ကြောက်ကြောက်ကြောက်ကြောက် (၈) အားကြောက္ခန့်ခွင်းရောစနစ်လိုက်ကြေးကြောက်ကြောက်ကြောက်ကြောက်ကြောက်ကြောက်ကြောက်ကြောက်ကြောက်ကြောက်ကြောက်ကြောက်ကြောက်ကြောက်ကြောက်ကြောက်က (ယ) ဆေးကြောက်နို့ဦးရောစနစ်လိုက်ကြီးကြောက်ကျောက်ကျောက်ကျောက်ကျောက်ကြောက်ကြောက်ကြောက်ကြောက်ကြောက်ကြောက်ကြောက်ကြောက်ကြောက်ကြောက်ကြောက်ကျောက်ကျောက်ကျောက်ကျောက်ကျောက်ကျောက်ကျောက	ခ၊ လုပ်ငန်းခွင်ကျန်းမာခေနနှင့်ဘေအန္တရာယ်ကာကွယ်ခုနာမဟုည်များနှင့်စပ်လှည်းရှိအကြံပြုရက် (က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ
။ လုပ်ငန်းနှင့်အလုပ်လုပ်ကိုင်မှုအခြောအနေအာမါ အကြံမြက် (က) ရာညံသံများအခြေအခန္	ျ လုပ်ငန်းမွင်ကြန်ကြပ်သူ (စိစိထက်) မင္ဂါဟို ပိုက်ကြက် (က) ရာညယ်များအခြေအခန္န္နန်း ရှိ ရ သင်းသိုး (၈) အနံ့အသက်အခြာအရန္ ရ ရ သင်းသိုး (၈) လုပ်ငန်းမှင်ကြန်ကြားသခြားအနေ (၁) ဘယ်စေးလွတ် (၄) လေဝစ်လေထွက် (၄) လုပ်ငန်းမှင်ကြန်ကြားသူ (စိစိအထက်) မင္ဂါဟို ပိုက်ကြက် (၈) လုပ်ငန်းနှင့်ကြန်ကြား (၁) မကြက် (၁) မက် (၁) မကြက် (၁) မကြက် (၁) မက် (၁) မကြက် (၁) မက် (၁) မကြက် (၁) မကြက် (၁) မက် (၁) မကြက် (၁) မက် (၁) မကြက် (၁) မက် (၁) မကြက် (၁) မက် (၁) မကြက် (၁) မက် (၁) မက် (၁) မက် (၁) မကြက် (၁) မက် (၁
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ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအချိန်ဖိုးတွေတင်လုပ်ခြင်းလုပ်ငန်းအတွက်	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအအိုမိုမှာတွတ်လုပ်မြင်းလုပ်ငန်းတတွက်
ပတ်ဝန်းကွင်ပိပ်ရန့်သူအစီအဝဉ် (Environmental Management Plan – ENP) နေအုပ်ခြင်းနှင့်ပတ်သက်၍	ပတ်ဝန်းကျင်မိနေနဲ့ခဲ့ရည်တွေ (Environmental Management Plan – EMP) နေနာခြင်းနှင့်ပတ်သက်၍
ဝန်ထင်မဟူအ၏ လုပ်ငန်းနှင့်တိုင်ရာ အကြံပြဖျက်များရသူဖြင်း	ဝန်ထမ်းမှာ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုံရက်မှားရယူမြင်း
α ηθεξιφθαγξίωνοιμεζεονουμογρώτημας (m) ηθεξιφθαστισοη τη τη δ. ε.η. τη δ.η. τη δ.η	ာ၊ လုပ်ငန်းစွင်ကျန်မာရေးနှင့်သောဆန္တရာသီကာကွယ်ရောမည်းများနှင့်မင်းလွှင်းရှိအကြံမြရက် (က) လုပ်ငန်းစွင်အကာအတွယ်ရည်းများ
μ φλοξιφό γγμασλαδοφασοβοσομασοί σοβληφολ (m) φλοξιφό (διασοκή) (m) φλοξιφό (διασοκή) (m) φλοξιφό (διασοκή) (m) φλοξιφό (διασοκή) (m) φλομο (διασοκή) <	(m) လုပ်ငန်းနိုင်ကြိုင်သူ (မိနာထာတို)

^{Vangon, Musa} Tel: 09 897 978 296, 09-5081451 E-mail: gmeson * Myanma Asia Optical International Co., Ltd. * အံ မှန်ဘီလူထာလိ ပတ်ဝန်းကျင်ပိန်မန် ပိုင်ကုန်ကာကာ၏ လုပ်ငန်းနှင်ပိုင်န်းတူ အကြီးခဲ့တာ က	pany@gmail.com, info@gmes-mm.com မူမျိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် — EMP) ရေးဆွဲခြင်းနှင့်ပတ်သက်၍	ి Myanmar Asia Optical International Co., టరంధ్ఈన్నర్రరీపంక్లస్త్రైవారివాంద్ర (Environmer	081451 E-mail: gmescompany@gmail.com, info@gmes-m Ltd. ″ ၏ မှန်ဘီလူးအဆိုးမျိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွ tal Management Plan – EMP) ခေနာင်ခြင်းနှင့်ပတ်သာ နှင့်ထိုင်ရာ အကြံမြူရက်ရှားမှလူခြင်း
ာ၊ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်		ာ။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်က	
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ		(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ	
(a) anonaires dependente operallessa		(a) သောက်သုံးရေ	again 69,225
(၈) သန့်စန်းများ ကိုးကားကို ကြေးနေဒိစ္စနဲ့ (၈)		(a) 2260262 (a)	Reformations for the second
(ဂ) သန့်လနေးများ (ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်		(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	~2 m25
၂။ လုပ်ဝန်းရွှင်အလုပ်လုပ်ကိုင်မှုအရှေအနေအပေါ် အကြံပြုရက်		။ လုပ်ငန်းစွင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအာ	
(က) ဆူညံသံများအခြေအနေ ၂၃၁၉၁		(က) ရာသံသံများအခြေအနေ	
(စ) အနံအသက်/အစိုးအငွေ များရှိ သည်		(က) မူည်သများအမြေအနေ (စ) အနံ့အသက်/အစိုးအငွေ့များ	
(ဂ) လုပ်ငန်းစွင်အလင်းရောင်ရှိသခုည်		(စ) အနံ့အသက/အစုံးအဋွေ့များ	
(ဃ) အမှုန်အမွှားများအခြေအနေမာရှိ-သို		(ဂ) လုပငန္းစွင်အလင်းရောင (ဃ) အမှုန်အမွှားများအခြေအနေ	amelarus
(c) സെംഗ്സെയ്യൻ		(ယ) အမှုနအမွှားများအခြေအနေ (င) လေဝင်လေထွက်	Social
၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုရက်		(ല) സേരാസേയുന	9
(က) (က) ကိုးရားကြီးကြပ်သူ (စိမ်ဆထက်)- အရိက်ရိက်ကြောင်မှု ((က)	AAAC.	၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအရြေအနေအရ	ပါအကြံပြုရက်
(a) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တု) <u>မြေအောင်းသည့်</u>		(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)	who: Bout
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)မီးရှိ ခေါ်		(ခ) လုပ်မော်ကိုင်ဖက် (အဆင်တ)	massalaf
		(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	an book with borg receive
၄။ သီမြားအကြံပြုရက်များ 		၄။ သီးရြားအကြံပြုရက်များ	
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ငန်ထမ်းများ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုချက်များရယူခြင်း	ာ၊ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စင်လူဦး၍အကြံပြုရက်
၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံပြုရက်	(က) လုဝင်နံးစိုင်အသာအယ်ကွက်စီဘူးရား
(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ	(a) and (a) 20/5
(စ) သောက်သုံးရေ	ແລະ ເພື່ອການ ເພື່ອການ ເພື່ອການ
(၀) သန်စင်ခန်းများ	(ဂ) သန့်စင်ခန်းများ
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ယ) ဆေးကြောသန္နရှင်းရေးစနစ
T. C. Matters Methods and Methods and Anticipation and	ု။ လုပ်ငန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအခပါ အကြံပြုချက်
၂။ လုပ်ငန်းစွင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြံပြုရက်	(m) ဆူညံသံများအစြဲအခန္
(က) ဆည်သံများအခြေအနေ	(၃) အနံအသက်/အစီးအရေ မား
	(၀) အနားသားကြားမှာ အမိုးကြားကြား ကြေးကြားရှိန်း (၀) (၀) ကြေးကြားရှိန်း (၀) (၀)
(ဂ) လုပ်ငန်းစွင်အလင်းရောင်	(n) working carocia apo
(ယ) အမှုန်အဖွှားများအခြေအနေ စကာင်ပတယ်	(ဃ) အမှုန်အမွှားများအခြေအနေကိုင်္ကို
(င) လေထွက်	(c) လေဝင်လေထွက်
၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေအခြေအနေအပေါ် အကြံပြုရက်	ာ၊ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုရွက်
(က) လုပ်ငန်းနွင်ကြီးကြပ်သူ (မိမိအထက်)ရကာဗ်.၀၇ယ်	CLIRK ADDRE S PROVINCE
(၈) လုပ်မော်နိုင်မျှော်သူ (မသေးက) (၈) လုပ်မော်နိုင်မျှော်သူ (မသေးက)	(a) a S a S a S a S a S a S a S a S a S a
(a) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(ອ) လုပ်တောက္ဝဇ်က (အထင့်တူ) (ဂ) လက်အောက်ဝန်ထမ်း (ဒီမီလက်အောက်)
See and the second seco	(ဂ) လက်အောက်ဝန်ထမ်း (မမလက်အောက်)
၄။ သီမြားအကြံပြုရက်များ	၄၊ သီမြားအကြံပြုရက်များ
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၁။ လုပ်ငန်းမှင်ကျွန်းမားရေးနှင့်သေးအနေလာသာကွယ်ရေးမှာည်များနှင့်စလိုသည့်မြောက်ပြီးမှုကို (က) လုပ်ငန်းမှင်အကားအကွယ်မန္တည်းမှား	ရက်နောက် လိုလ်နီးရေးကို ကိုလ်နီးကိုက်ရှိသည်။ (၈) ဟိုင်နီးနိုင်အသာအမှုတ်သည်။ (၈) တိုင်နီးနိုင်အသာအမှုတ်ကို သည် (၈) တိုင်နီးနိုင်ကောင်ကို ရင်းခိုက်ရှိသည် (၈) ဘန်စင်နောက် (၈) ကိုလ်နောက် (၈) ကိုလ်န
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Yangon, Myanmar Tel: 09 897 978 296, 09-5081451 E-mail: <u>emeicompany@email.com, info@gmes-mm.com</u> * Myanmar Asia Optical International Co., Ltd. " အိမ္နာ်သူဟူးသို့တွေဘဲလုပ်ခြင်းမှာလိုင်နီးအတွက် တတ်နာကျင်ပိင်စန်ခွဲမှုအစီအငဉ် (Environmental Management Plan – EMP) ဖေးခဲ့ခြင်းနှင့်ပင်သက်၍ ပန်ထမ်းမှား၏ လုပ်ငန်းနှင့်ငံနိုင်ရာ အင်္ကြံပြီရက်နောက္ခပုခြင်း	Yangon, Myanmar Tel: 09 897 978 294, 09-5081451 E-mail: <u>gmescompany@gmail.com</u> , info@gmes-mm.co " Myanmar Asia Optical International Co., Ltd. "ສາ ເຊັ່ງລ້ຽງເຂລງຊີແຊີແວດດ້າວເຊິ່ງ ເວລີວຣູໂທລູຣີເວັ້ນຈະຊີຊີວູລວອີເວລວຣູ້ (Environmental Management Plan = EMP) ອຸດຣຸລີໂລີຣະລວຣູດ້ ເວລີວຣູໂທລູຣີເວັ້ນຈະຊີວີລູລວອີເວລວຣູ້ (Environmental Management Plan)
ာ၊ လုပ်ငန်းခွင်ကျန်းမာရေးနှင့်သေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လူဦး၍အကြံပြုချက်	၁။ လုပ်ငန်းခွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လူဦး၍အကြံပြုရက်
၁။ လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ	(a) $exposition \frac{2}{2} \sqrt{2} \sqrt{2} \sqrt{2} \sqrt{2}$
(စ) သောကသုံးရေ	(n) 25koをお:4pz
(ဂ) သန့်စင်နေးများ	(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်
	၂။ လုပ်ဝန်းရဝ်အလုပ်လုပ်ကိုဝ်မှုအရေအနေအပေါ် အကြံပြုရက်
၂။ လုပ်ငန်းရွှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအခေါ် အကြံမြူရွက်	(က) ရာညံသံများအစရြအစန
(က) ရာညံသံများအခြေအနေ	(၈) အနံ့အသက်/အစိုးအငွေ့ များ
(စ) အနံ့အသက်/အစိုးအခွေ့များ <u>ဗီလိုး အကာက ရှိလက်သည်</u>	(e) သန့်အသက်)အမှာအမွှေ့များ (n) လုပ်ငန်းစွင်အလင်းရောင်
(ဂ) လုပ်ငန်းစွင်အလင်းရောင် <u>(၄) (ဂ်က်က်က်၊ ဘ်ခုံ)</u> ၂၇၅	(၈) (၃၀၀နာနွင်အင်ဝင်၊နောင်
(ဃ) အမှုန်အမွှားများအစစြအနေ	(ထ) အမှုန်အမ္ဘာများအမြေအနေ (င) လေဝင်လေထွက်
(င) လေဝင်လေထွက်	., .
၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုချက်	၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအခေါ် အကြံပြုရုက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)
(ခ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)	(e) လုပ်မော်ကိုင်ဖက် (အဆင့်တူ)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်) <u>ကြောက်နောက် (၂၀) လက်</u>	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)
ငှ၊ သီပြားစတ်ပြီဖြစ်များ	ငှ၊ သိမြာအကြိမြရတ်များ
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ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအဆိုမှုရှိထုတွယ်လုပ်ရှိသန့်သတ္တက် ပတ်ဝန်းကျင်စီရဲစန်ခြန်ရာမှုကြောင့် လှစ်လန်းရာနှင့်တွေရာက်ရာကျင်ရှိသည့် အကြောများကို အကြောင့် အကြောင့် ကျောက်တာရာကျောက် ကျောက်တွေကျောက်တွေကျောက်တွေ	ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူအာရိုာမို့ရာတုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းတူပိုင်မန်နဲ့မှာတို့အတွင် (Environmental Management Plan – EMP) နေးလို့ခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်မှာအရ လုပ်ငန်းနှင့်ထိုင်ရာ အကြံပြရက်ချားရကွေမြောက်
၁။ လုပ်ငန်းနှင်ကျွန်းမာချေးနှင့်သေးဆန္တရာယ်တာကွယ်ရေးပန္လည်းများနှင့်စပ်လှည်း၌အကြံမြူရက် (က) လုပ်ငန်းနှင်အကာအတွယ်ဖုနည်းများရေ (စ) သောက်သုံးရေ	၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်သေးအန္တရာယ်ကွာကွယ်ရေးမစ္စည်းမွားနှင့်စပ်ကျွား၌အကြံမြရက် (က) လုပ်ငန်းစွင်အကာအကွယ်မစ္စည်းများ (၈) သန့်စင်ရန်းများ
(ယ) ဆေးကြောသန်ရှင်းရောစနစ် မော်လကင်းတွင်ပါ ၂။ လုပ်ငန်းနင့်အလုပ်လိုလိုပိုမှုအခေငြအခနအခုတ်အကြောရက (က) ရာညံသံများအခြေအခန (ရ) အနှစ်သဘ်/အစိုးအခဋ္ဌေးမှာ:	(ယ) ဆေးကြောသန့်ရှင်းရေးစုနှင်မိ ၂) လု င်ဝန်းစွင်အလုပ်လုပ်ကိုင်မှုအားြောအနေအာပ်၊ အကြံပြရက် (က) ရာညံသံများအဝြေအခန္
(ဂ) လုပ်ငန်းနှင်အလင်းဖရာင်	(a) సర్వర్తి సంద్యాలు సంద్రాలు (a) ప్రశిష్టాని సింద్రాలు సంద్రాలు సంద్రాలు సంద్రాలు సంద్రాలు సంద్రాలు సంద్రాలు సంద్రాలు సంద్రాలు సంద్రాలు సంద్ర సంగార్ సింగ్రాలు సంద్రాలు సంద్ సంగార్ సింగ్రాలు సంద్రాలు సందర
ന് സ്പാലും സ്പ്പോയങ്ങളെക്കുന്നെ പോലുക്കുന്നു. (ത) സ്പാല്ക്ക്റ്റ് എന്റ് വ് മിമയാന്ന്നെ പ് എന്ന്. (ത) സ്പാല്ക്ക് (ജമസ് മുന്നും സ്ക്ക്ക്ക്ക്ക്ക്ക്ക്ക്ക്ക്ക്ക്ക്ക്ക്ക്ക	స్ట్ గుర్తాప్తి గ్రామంగుత్తాముత్తుడును వెద్దార్లెక్టుగ్ (ఐ) గుర్తంపోస్టోపోస్టు (కివిజయా)
မှာ သံရြာအတြံမြရတ်များ 	ၚ၊ သိမြားအကြံပြရတ်မျာ
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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအခိုးမိုမှာလုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ဟာ်ဝန်းကျင်မီမံခန့်ခွဲမှအမီအဝဠ် (Environmental Management Plan – EMP) စနောွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းနှင်ဆိုင်ရာ အကြံပြုမျက်များရယုခြင်း	" Myanmar Asia Optical International Co., Ltd. "၏ မှန်ဘီလူးအဆိုခြံဆုတ်လုပ်ခြင်းလုပ်ငန်းအတွ ပဘ်ဝန်းကျွမ်မိမန်နွဲမှုအတီအဝဉ် (Environmental Management Plan – EMP) ရေးဆွဲခြင်းနှင့်ပတ်သက် ဝန်ထမ်းမှာအရာ လုပ်ငန်းနှင့်ရာ အကြံမျက်ရှားရောမျှခြင်း
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ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုရုက်များရယူခြင်း	ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုချက်များရယူခြင်း
ာ။ လုပ်ငန်းရှင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ခုရာပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံပြုရက်	၁။ လုပ်ငန်းမွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်းရှိအကြံပြုမျက်
(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ	အ လိုတင်္ခနာရိလာနာနာဘရေးနှင့်တော့အဖွဲ့ရာသာဘက္ကသားကိုသားကြားနှင့်စာလူနားများမှာကိုသား (က) လုပ်ငန်းရင်အကာအကွယ်ပစ္စည်းများ
(a) comeSoirce PHT7	(၈) (သာက်သုံးရေ ေနသာက္ကလမွည်းများ
(0) an in the grant and the gr	(စ) သောကသုံးရေ
(ဂ) သစ္စာလေနရာ	(ဂ) သန္နဝငခန်းများ (ယ) ဆေးရကြာသန့်ရှင်းရေးစနစ်
(ယ) ဆေးကြောသန္မရှင်းရေးစနစ	(ယ) အေားကြောသန္နရှင်းရေးစနစ်
၂။ လုပ်ငန်းရှင်အလုပ်လုပ်ကိုင်မှုအစရြအစနေအစုမါအကြံပြုရက်	၂။ လုပ်ငန်းစွင်အလုပ်လုပ်ကိုင်မှုအစုရြအုနေအပေါ် အကြံမြုရက်
(က) ဆည်သံများအစြေအနေမြ	(က) ရာညံသံများအစရြအစန္
(စ) အနံအသက်/အစိုးအငွေ များ	(ခ) အနံအသတ်/အစိုးအရှေ့များ
(ခ) အနံ့အသက္ အစိုးအဝင္မံုမိုး (ဂ) လုပ်ငန်းမွင်အလင်းရောင်	() () () () () () () () () () () () () (
(ဃ) အမွန်အမွှားများအစစြအစန	(ဃ) အမှန်အမွှားများအရြေအနေ
(c) လေဝင်လေထွက်	(c) လေဝင်လေထွက်
၃။ လုပ်ငန်းရွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုရှက်	၃။ လုပ်ငန်းခွင် လူမှုဆက်ဆံရေးအစြေအစနအပေါ် အကြံပြုရက်
(က) လုပ်ငန်းစွင်ကြီးကြပ်သူ (မိမိအထက်) <u>၆ ကာမ</u> ိ	(က) လုပ်ငန်းနွင်ကြီးကြပ်သူ (မိမိအထက်)
(a) လုပ်တော်ကိုင်ဖက် (အဆင့်တူ)	(ခ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)
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ာ။ လုပ်ငန်းစွင်ကျွန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စင်လျှင်း၍အကြံပြဖျက်	
(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ	ာ၊ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လူဦးရှိအကြံပြုရက်
(၈) သောက်သုံးရေ	(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများရှိ
(a) 22505055 c 237 no 69 308.	(မ) သေကသုံးရေမိုအေဝက်မှ _ေ / ည2နို့ချားမှ _မ ရှိ
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ဂ) သန္နာဗမာနာများ
	(a) analy sticle 10 to
၂။ လုဝ်ငန်းနွင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြံပြုရက်	၂။ လုဝ်ဝန်းစွင်အလုပ်လုပ်ကိုဝ်မှုအစရြအစနအပေါ် အကြံပြုရက်
(က) ဆူညံသံများအခြေအနေ	(က) ဆူညံသံများအခြေအနေမှ
(စ) အနံ့အသက်/အရိုးအငွေ့ များ	(စ) အနံအသက်/အစိုးအစင္မွ များမာဇို ဗာသာက်ရှိ
(ဂ) လုပ်ငန်းစွင်အလင်းရောင်	(ဂ) လုပ်ငန်းစွင်အလင်းရောင်သို <u>ရေးကိုက်ကျွန်</u> မြှ
(ဃ) အမှုန်အမွှားများအရြေအနေ	(ဃ) အမှုန်အမွှားများအစြေအနေမြ
(င) လေဝင်လေထွက်	(c) ດາວຣັດເາຊາກ໌
၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအရြေအနေအပေါ် အကြံပြုရွက်	၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအရြေအနေအပေါ် အကြံပြုရွက်
(က) လုပ်ငန်းစွင်ကြီးကြပ်သူ (မိမိအထက်)	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)
(ခ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)	(စ) လုပ်ဖော်ကိုင်ဖက် (အထင်တူ)
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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအမိုးမိုးထုတ်လုပ်မြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကုပ်စီမံနေ့်ခွဲဖော်အခွင့် (Environmental Management Plan – EMP) မေးမိုးမြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ခန့်နှင့်ဆိုင်ရာ အကြံပြုံချက်များရသူမြင်း	" Myanmar Asia Optical International Co., Ltd. "၏ မိန်ဘီလူအာရှိရှိမှာသုတ်လုပ်ခြင်းလုပ်ငန်းအတွတ် ယာ်ဝန်းတွင်မိန်ခွဲနဲ့အတို့အတွင် (Environmental Management Plan – EMP) ဝနော့ခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်မှာ၏ လူသိန်းမှုဒ်တိုက်ခြင်းခြင်းချင်မျက်မှာရလူခြင်း
ာ၊ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်းရှ်အကြံပြုရက်	၁။ လုဝ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုရက်
(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ- ပါနယ်	(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ
(စ) သောက်သုံးရေ	(စ) သောက်သုံးရေ
(၈) သန့်စင်ခန်းများ- ထိုင်ကာက်ပြီးသန့်ရှင်းပါက္ကပည်	(ဂ) သန့်စင်ခန်းများ
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မှ လုပ်ငန်းစွင်ကြိုက်လို မိန်သားကို ဆက်ခြားကို ကို ကြိုင်းကို ကြိုင်းလာကို ကြောင်းလာကို ကြောင်းလာကကို ကြောင်းလာကို ကြောင်းလာကကို ကြောင်းလာကို ကြောင်းလာကို ကြောင်းလာကကို ကြောင်းလာကကို ကြောင်းလာကကို ကြောင်းလာကကို ကြောင်းလာကို ကြောင်းလာကကို ကြောင်းလာကကို ကြောင်းလာကကို ကြောင်းလာကကို ကြောင်းလာကကို ကြောင်းလာကကကကကကကကကို ကြောင်းလာကကို ကြောင်းလာကကို ကြောင်းလာကကို ကက်ကကကကကကကကကကကကကကကကကကကကကကကကကကကကကကကက	လူနေသိမှာအခြာအားနေအခြေအားနေအားခြားချားနှင့် ((n)) လူနေသိမှာအခြားနေး လူနေသိမှာအခြားနေး လူနေအသက်ကနားနောင္စားနောင်္သိုးသား လူနေအသက်ကနားအခြေအခန (၁) လူနေအသက်ကနားနောင်္သိုးသား (၁) (၁) လူနေအသက်ကနားနောင်္သိုးသား (၁) လူနေအသက်ကနားနောင်္သိုးသား (၁)<
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ိ Myanmar Asia Optical International Co., Ltd. " ၏ မုန်ဘီလူးအမှိုးမို့ပုလ်လုတ်ပြင်န်းအတွက် ပတ်ဝန်းကျင်စီပံခေိုခွဲမှာဆီအတွင် (Environmental Management Plan – EMP) ခြေးဆိုအမှုန်တိုဟ်သက်၍ ဝန်တစ်များဆို သန်တန်များဆိုလုတ်နောက်များရှက်များရက်များရက်ခြား	" Myanmar Asia Optical International Co., Ltd. "၏ မှန်ဘီလူအခရိုးရှိထုတ်လုပ်ဖြင်းလုပ်ငန်းအတွက် ယာ်ဝန်းကွန်ပိစ်နေနဲ့အမှာစီအဝဉ် (Environmental Management Plan – EMP) နေအုခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်မှာ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြရက်များရလုခြင်း
ာ။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ့်ရေးပစ္စည်းများနှင့်စပ်လူဦး၍အကြံပြုရက်	ာ၊ လုပ်ဝန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပတ္တည်းများနှင့်စုပ်လှည်း၍အကြံပြုရှက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ
(ခ) သောက်သူးရေ ကောင်ပါသူသိ	(စ) သောက်သုံးရေ
(ဂ) သန့်စင်ခန်းများ	in a start in the second secon
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်၂	(ဂ) သန့်စင်နေများ (ဃ) ဆေးရကြာသန့်ရှင်းရေးစနစ် ၁.ဧကင် ဖွင် ၁၂၀၃၄ာ
၂။ လုဝ်ဝန်းစွင်အလုပ်လုပ်ကိုဝ်မှုအခြေအနေအခေါ် အကြံပြုရက်	၂။ လုပ်ဝန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြံပြုရက်
(က) ဆူညံသံများအရြေအနေ	(က) ဆူညံသံများအစြေအစန္
(စ) အနံအသက်/အစိုးအဝွေ များ	(ခ) အန်အသက်/အစိုးအရှေ့များ
(ဂ) လုပ်ငန်းနှင်အလင်းခရာင်	(၃) သမီးမ်းမေးကား ကြားများမှာ မှ ကြည်သည်
(ဃ) အမန်အမားများအခြေအနေ	(ω) $\pi \mu s \pi \mu \pi \rho s \sigma \rho s $
(c) လေဝင်လေထွက်	(c) လေဝင်လေထွက်
၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုရက်	၃။ လုပ်ငန်းရှင် လူမှုထက်ဆဲရေးအခြေအနေအပေါ် အကြံပြုရက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်) ကောင်းပါတယ်	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)ေကာင် - မါက ကာ
(၈) လုပ်ခတ်ကိုင်ဖက် (အဆင့်တူ)	(ခ) လုမ်တော်ကိုင်စက် (အဆင့်တူ) <u>ကောင်း ပါက (၁)</u>
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(၀) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်) <u>ကက်င်းပါတယ်</u>
င်း ဘူမြားအဖြစ်ရှိသမား	റ്റ മീട്രായവ്വില്ലൻറ്റെ
woiyos <u>Se</u> pog. <u>Woikei</u> συδ <u>Ma Hain Mar See</u> gra <u>C.G.</u> συδ <u>C.G.</u>	იირყინ
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လုပ်သက် ဆက်သွယ်ရန်လိပ်စာ မီးကိုသည်ဆိုင်း ယုံးကန်ကို	လုပ်သက်2.2. (2) ဆက်သွယ်ရန်လိပ်တ မ်ဥ္မာဘိုင် သူသညာသာအဒီ

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ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအချိုးမှိရာတွတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကျင်စီပံခန့်ခွဲမှုအဝီအဝဉ် (Environmental Management Plan – EMP) ရေးထိုခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြဖျက်များရသူခြင်း	ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအချီးမိုးတုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ဟာ်ဝန်းကျင်ပိစ်နန့်ခွဲဖွဲ့အနော်တွင် (Environmental Management Plan – EMP) နော့ခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ဝန်းနှင့်ဆိုင်ရာ အကြံပြီးရက်များရလုခြင်း
ာ၊ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုရက်	ာ၊ လုပ်ငန်းခွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ့်ရေးပစ္စည်းများနှင့်စပ်လှည်း၍အကြံပြုရက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ ကျက်ဆိုပါ ၊ (တို့ ကြိုက်ရာက ကျက်ဆိုပါ) (တို့ ကြိုက်ရာက ကျက်ဆိုပါ) (တို့ က
(စ) သောက်သုံးရေ <u>၁၁5 ၉ ယ) က နန်</u>	(a) comparison (20 226
(n) သန့်စင်ခန်းများ	(a) aword the
(ဃ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ဂ) သန္နဝငခန်းများ
။ လုပ်ငန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအခပ် အကြံမြရွက်	
(က) ဆူညံသံများအစြေအစန္	၂။ လုပ်ဝန်းစွစ်အလုပ်လုပ်ကိုဝ်မှုအခြေအနေအဝပ် အကြံမြရက်
(e) အန္ဒံအသက်/အစိုးအငွေ့များ	(က) ရာညီသံရားအခြေအခန္ <u>အခု မိုင်သည် ကို မခြင်ခ</u> န် (၈) ရာနဲ့အသက်/အစိုးအခွေ့များ အခြင်ခန် ကြင်ခန်န် ကြင်ခန်န် မရှိကြက် (၈) အနံ့အသက်/အစိုးအခွေ့များ
(ဂ) လုပ်ငန်းစွင်အလင်းရောင်	(စ) အနံ့အသက်/အစိုးအငွေ့များ
(ယ) အမွန်အမွှားများအရြေအနေမြ	(၀) လုပ်ငန်းမွှင်အလင်းရောင်
(c) లుంరీలుద్దారు	(ယ) အမှုန်အမွှားများအခြေအနေ
(-) (-) (-) (-) (-) (-) (-) (-) (-) (-)	(င) လေဝင်လေထွက်
၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအခပါ အကြံပြုရက်	၃။ လုပ်ငန်းနှင့် လူမှုထက်ထံရေးအခြေအနေအပေါ် အကြံပြုရှက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)
(စ) လုပ်စော်ကိုင်ဖက် (အဆင့်တူ)	(a) လုပ်ဖော်ကိုင်ဖက် (အဆင့်ဘ)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(၀) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)
දා තීබ්පානරෝවුලෝදා	ငှာ သိမြားအကြံပြရတ်များ
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ပတ်ဝန်းကျင်စီမံမန့်ခွဲမှုအစီအစဉ် (Environmental Management Plan – EMP) ရေးခွဲခြင်းနှင့်ပတ်သက်၍	ပတ်ငန်းကုန်ပီမံခန့်ခွဲမှာအပီအဝဠ် (Environmental Management Plan – EMP) မနော့ခြင်းနှင့်ပတ်သက်၍
ဝန်ကမ်းများ၏ လုပ်ငန်းနှင့်ဆိုင်ရာ အကြံမြှုံမျက်များရပုံမြင်း	ဝန်တစ်မရာ၏ လုပ်ငန်းစုနိုင်ရာ အကြံပြုချက်မှာရလုပ်ခြင်း
၁။ လုပ်ငန်းနှင်ကျန်းမာရေးနှင့်သေးအန္တရာယ်တာကွယ့်ရေးပစ္စည်းများနှင့်စပ်လူဦးရှိအကြိုရတ် (က) လုပ်ငန်းနှင်အကာအကွယ်ဖစ္စည်းများ	၁။ လုစ်ငန်းခွင်ကျန်းမာခရေနှင့်သေးအန္တရာယ်ကာကွယ်ရေးမစ္စည်းများနှင့်စပ်လှည်း၌အကြံပြုရက် (က) လုပ်ငန်းခွင်အကာအကွယ်မစ္စည်းများ မဲ လို (ခ) သောက်သုံးရေ မို႔ဒ်ဒန် (၈) သန့်စင်စန်းများ အိုင်ရှိ ရှိ ရှိ (ယ) ဆေးဖကြာသန့်ရှင်းရေးစနစ်
၂။ လုဝ်ငန်းစွင်အလုပ်လုပ်ကိုပ်မှုအခြေအနေအခုမ် အည်မြရက်	၂။ လုပ်ငန်းနှင့်အလုပ်လုပ်လိုင်ပိုအားခြေအနေအာတ်၊ အကြံမြရတ်
(က) ရာည်သံမှားဆရေအနေ	(က) ရာည်သံများအခြေအနေ
၃။ လုပ်ငန်းနွင် လူမှုထက်ဆံရေအခြေအနေအခေါ် အကြံပြုရက်	సి గార్రదేశ్యర్ గ్రామానురణావాద్రవాశనాలనే వార్ట్రోక్షిత్తాన
(က) လုပ်ငန်းနွင်ကြီးကြပ်သူ (မိဒိဆထက်)	(m) గార్రదేశ్యర్ గ్రోహైద్రోప్తు (రోజావారా)
မှာ သူပြားအလြှကြန်သူမ်း	၄။ သံပြားအကြံမြစုသုံး။
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၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှင်း၍အကြံပြုချက်	၁။ လုပ်ငန်းစွင်ကျွန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံပြုရှက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများမ ^{မ.} မိ	(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများမိုက်
(စ) သောက်သုံးရေ	(စ) သောက်သုံးရေ
	(ဂ) သန့်စင်ခန်းများခုန်ချင်း မှုမြ
(ဃ) ဆေးစကြာသန့်ရှင်းရေးစနစ်	(ဃ) ဆေးကြောသန့်ရှင်းရေးစနစ်
၂။ လုပ်ငန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြံပြာရွက်	၂။ လုပ်ဝန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအဝပ် အကြံပြုရက်
(m) mini mmo Ema	
(ခ) အန်အသတ်/အစိုးအရှေ့များ	(a) = m (m) (m) (m) (m) (a) (a) (a) (a) (a) (a) (a) (a) (a) (a
(၇) လှုဒ်ငန်းနှင့်အလင်းရောင်	(၈) လုပ်ငန်းစွင်အလင်းရောင်
(W) အမန်အမားများအခြေအနေ	(h) 200 200 200 200 200 200 200 200 200 20
(c) လေဝင်လေထွက်	(a) 24423 (a) 254 (c) 26 (c) 2
၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုရက်	ာ၊ လုပ်ငန်းနှင့် လူမှုထက်ဆံရေးအခြေအနေအခပ် အကြံပြုရက်
(က) လုပ်ငန်းနွင်ကြီးကြပ်သူ (မိမိအထက်)စကာဦး ပါ အဆို	(က) လုပ်ငန်းနှင်ကြီးကြပ်သူ (စိမိအထက်)ရောာင်၊ ပါသည်သည်
(a) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)	(၈) လုပ်တော်ကိုင်ဖက် (အဆင့်တူ)
(၀) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(၈) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)၆.ကာ.၆: ၊) ၁၃၉၆
	1993808 950-05911 8X
ငှ၊ သီမြားအကြံပြုနတ်များ	၄၊ သီးရြားအကြံပြရက်များ
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ိ Myanmar Asia Optical International Co., Ltd. "၏ မှန်ဘီလူးအဆိုမှုခိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက်	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်-သီလူအာနိုးရမ်ာ့တုတ်လုပ်ခြင်းလုပ်ငန်းအတွက်
ပတ်ဝန်းတျင်စီမံခန့်ခွဲမှုအစီအဝဉ် (Environmental Management Plan – EMP) ရေးဆိုခြင်းနှင့်ပတ်သက်၌	ပတ်ဝန်းတူပိုင်ပန်ခွဲမှုအဗီအဝဉ် (Environmental Management Plan – EMP) ရေးဆွဲခြင်းနှင့်ပတ်သက်၍
ဝန်ထမ်းမှာအရ လုပ်ငန်းနှင့်ရော အကြံပြေရက်များရသူခြင်း	ဝန်ထမ်းမှား၏ လုပ်ငန်းနှင့်ထိုင်ရာ အကြံပြုဖျက်ရောရသူခြင်း
အ လုပ်ငန်းနှင်အနီးမာခေနနှင့်အေးအန္တရာယ်ကာကွယ်ရေမာရှည်းများနှင့်စပ်လှည်းရှိအကြံမြဲရက်	၁။ လုပ်ငန်းစွင်အနာ်မာစေမှုနှင့်ခဘအန္တရာယ်ဘာကွယ်ရောမာင္လည်းရားနှင့်စင်လှူဦးရှိအကြံမြရက်
(က) လုပ်ငန်းနှင့်အကာအကွယ်ပစ္စည်းများအလိုပါ	(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ
၂။ လုပ်ငန်းစွင်အလုပ်လုပ်ကိုပ်မှုအခြေအနေအခေါ် အကြိမြူမှုက်	၂။ လု င်ငန်းစွင်အလုပ်လိုင်မှအခြေအနေအခေါ် အကြံခြုံရက်
(က) ရာညံသံမှားအခြေအနေ	(က) ထူညံသံများအခြေအနေ
၃၈ လုပ်ငန်းရှင် လူမှုထက်ထံရေအခြောဆနေအဆံအကြံခြံချက်	မှ အမြားအကြိုးမှားမှာ
(က) လုပ်ငန်းနှင့်ကြီးကြင်သူ (မိင်အထက်)	(၈) လုပ်နေးနှင့်ကြိုကြပ်သူ (ဗိဒိဆထက်)
იაიწყინ	იარყინ

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၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံပြုရက်	ာ၊ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှင်း၍အကြံပြုရက်
(က) လုပ်ငန်းစင်အကာအကွယ်မှစည်းများ	၁။ လုံပငန်းခွင်အကာအကွယ်ပစ္စည်းများမြီ-သခင်ပါ။ (က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများမြီ-သခင်ပါ။
(a) annonica <u>60.228</u>	(က) လုပငန်းခွဲအေကာအကွယ်ပစ္စည်းများ
(၀) သန်စင်ခန်းများ	(စ) သောကသုံးရေစာနေကြန်
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ဂ) သန့်စင်စနာများ
၂။ လုပ်ငန်းနှင့်အလုပ်လုပ်ကိုင်မှုအမြေအနေအခဒ် အကြံပြုရက် (က) ရည်သံမှာအခြဲအခန္ (ခ) အန်အသက်/အစိုးအခွေ့မှား	၂ လုပ်ငန်းနှင့်အလုပ်လိုလိုလူဆားရြာအနေအာမပါ အကြံပြုရက် (က) ရာညံသံရာအားရြာအန
సరిఫారా	స్ సిలింగ్ లాల్లు సిల్లాలు సింలు సిల్లాలు సింలు సిల్లాలు సిల్లా సిర్లు సిర్లు సిల్లు సింలు సిర్లు సిరింలు సిరింలు సిరింలు సిరాలు సిరాలు సిరింలు సిరింలు సిరింలు సిరింలు సిరింలు సిరాలు సిలాలు సిరింలు సిరింలు సిరింలు సిరింలు సిరాలు సిరాలు సిలాలు సిలాలు సిలు సిరాలు సిలాలు సిలు సిరాలు సిలు సిలు సిరాలు స

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ိ Myanmar Asia Optical International Co., Ltd. ″၏ မှန်ဘီလူးအချိမမို့မလုတ်လုပ်ခြင်းလုပ်ငန်းအတွက်	ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူအအိုရှိမှုလုတ်လုပ်ခြင်းလုပ်ငန်းအတွက်
ပတ်ဝန်းကွန်ခံဖစ်နို့ခွဲစစ်အဖွဲ့တွေ (Environmental Management Plan – EMP) ခုနော့ခြင်းနှင့်ပတ်သက်၍	ပတ်ဝန်းကျင်စီမံနေ့်ခွဲဖွဲ့အစီအဝဉ် (Environmental Management Plan – EMP) နေရာခြင်းနှင့်ပတ်သက်၍
ဝန်ထမ်းများ၏ လုန်ထမ်းခွာ၏လုပ်ခွင်းနိုင်ဆိုင်ရာ အကြံပြာရာက်များရသူခြင်း	ဝန်တမ်များ၏ လုပ်ငန်းနှင့်တိုင်ရာ အကြံပြံရက်ရှားရဟူခြင်း
မ လုပ်ငန်းစွင်ကျန်းမာရေနှင့်တေအန္တရာသီကာကွယ်ရေးမဋ္ဌည်းများနှင့်စင်လှုန်းရှိအကြံမြဲရက် (က) လုပ်ငန်းစွင်အကာအကွယ်မည်းများ ။ ကြန်းနောက္ကို စာသဘာသဦး ပါသည် (၈) ဆန့်စင်စန်းများ	၁။ လုပ်ငန်းစွင်ကျွန်းမာရေးနှင့်ဘေးအနေရာယ်ကာကွယ်ရေးမတ္တည်းများနှင့်ဝင်ကျွင်းရှိအကြံမြရက် (က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ
၂ လုပ်ငန်းနှင့်အလုပ်လုပ်လိုင်မှုအခြေအနေအခဒ် အကြံမြဲရာဂ်	ျားလိုင်ရန်ခြင်ဆဲလုပ်လိုလိုင်မှုအခြေအခနဲ့အခေါ် အကြံခြရက်
(က) ရာဦသံမှားအခြေအနေ မေးမိုးကြာသင်	(က) ထူညံသံမှာအခြေအခန
(ခ) အနန်အသက်/အစိုးအခွေ့များ မြန်မာကြောင်း ဦးဖြဲးကြယ်ပေးကို	(စ) အနန်အသက်/အခြံအခန့္အျပား
(ယ) အနန်အသက်အစိုးသား	(၈) လူပ်ငန်းနှစ်အငွေျား
(ယ) အနန်အသက်က	(၀) အပွန်းတွေကျားအခြေအနေ
(စ) စလင်နောင္စအလိုက် မြန်မှ	(၀) အပွန်းတွေက
(စ) စလင်နောင္စတက် မြန်မှ	(၀) ကျောင်ရလထွက်
၃။ လုပ်ငန်းနှင့် လူမှုထက်ထံရေးအခြေအနေအခေါ် အကြံခြဲရက်	ာ လုပ်ငန်းနှင့် လူမှုထက်ထံရေအခြေအနေအပေါ် အကြံခြရက်
(က) လုပ်ငန်းနှင့်ကြိန်ကြင်ဟု (ဒီဒိအထက်)	(က) လုပ်ငန်းနှင့်ကြီးကြင်သူ (စိစိအထက်)
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ကျား၏။။။ အေးမာက္ေၾကာင္းကို အေၾကာင္းမွာ ကျမန္မာကို အေၾကာင္းမွာကို ကျမန္မာကို အေၾကာင္းမွာကို ကျမန္မာကို အေၾကာင္း ပတၳဝနီးက္ရွင္စီမိမိနဥ္က်ခဲ့မွာတီအတွင္ (Environmental Management Plan – EMP) ခုေၾကြင်းမွာပေဘဲသူ လူမ်ာတီမႈနား၏ လူမ်ာတီမႈနား၏ လူမ်ာတီမႈနားမွာကို မြောက္မွာကို များမွာကို များမွာကို များမွာကို များမွာကို များမွာ	ပတ်ခန်းတွင်မိမ်ခန့်ခွဲသာပီသာလို (Environmental Management Plan – EMP) ခုနော့ခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းမှာဆံ၊ လုပ်ငန်းနှင့်သိမ္မာ အတြေးများကြားများကို ကျောက်ချင်းများကို ကျောက်ချင်းနှင့်ပတ်သက်၍
အ လုပ်ငန်းစွင်အနီးမာရေးနှင့်သေးအနေသူသိဘာဘင္လလ်ရေးပုစ္တည်များနှင့်ပေါ်လွှင်းရှိအကြော်ရွက် (က) လုပ်ငန်းစွင်အဘာအကွယ်ဖစ္စည်းများငီပြီမီ ဒါလမ်း	၁။ လုပ်ငန်းစွင်အနားမာရေးနှင့်ဘေးဆန္တရာလီဘာတွယ်ရေးမည့်ကျေးနှင့်စပ်လှူဦးရှိအကြံပြရာက် (က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ
(စ) သောက်သုံးရေ	(a) awnhuna
(ພ) ຄວາຍເຫຼົາວນ§ຄູຣິເອຍເຈລຣ໌	(ဃ) ဆေးကြောသန့်ရှင်းရေးစနစ်ကောင်းခက်ပွင်း ၂ ။ လုပ်ငန့်မှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအခေဒ် အကြံမြူဖက်
(က) ထုည်သံများအခြေအခန္	(က) ရာညီသံများအခြေအနေ ကြာသမင်္ဂ (က) ရာန်အသက်(အခိုအခဋ္ဌေးမှာ:
(ယ) အမှန်အမွှားများအခြေအနေ	(ယ) အမွန်အမွှားများအခြေအနေမမ္ပါတ်မမ္ပါတ်
నా గురేంక్టుల్లో గ్రాథాయామంధాబాంద్రోబాంక నాంచే బాయ్రోర్నింగాగ్ (గా) గుర్-కట్టర్లిదోశ్వర్రిపా (రోటింబుగా)	၃။ လုပ်ငန်းနှင့် လူမှုဆက်ထံရေအခြေအနေအခဒ် အကြံမြရက် (က) လုပ်ငန်းနှင့်ကြီးကြပ်သူ (ဒိဒိအထက်) <u>စာတင်း ခဲခဲ့ခ</u> င်း
၄။ သိရြာအတြံချား တြေးရမ်းစား ရှိသားမကား ဦးသပ္ပ်တွေ့ကားကားကားကြောက်ကြောက်ကားကားကားကား ကိုသူတွေ့ကားကားကားကားကားကားကားကားကားကားကားက	င်း သူမြားအသြကြမ်သူမ်ား
Norman Lang	wohyob

Green Myanmar Environmental Services Co., Ltd Manmar Asia Optical International Co., Ltd. " of sporyeading and company of grand Company of the spory	Green Myanmar, Sanager Market Maragement Maragemen
ဝနတာများအ လုတင်မှန်လိုင်ရာ အက္ကာရန်က လုတင်မှန်လက်ရာ အက္ကာရမှုကို ၁။ လုတ်ငန်းစွင်အနားစာချေနှင့်ဘေးအန္တရာယ်ကာကွယ်စွေးမေးညီများနှင့်စပ်လူဦးရှိအကြီးမြရာကိ (က) လုတ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ	အ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်အေအာ္တရာယ်ကာကွယ်ရေးမစ္စည်းများနှင့်စပ်လှူဦးရှိအကြံမြဲရက် (က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ (၈) စသာက်သုံးရေ
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ် ၂။ လုပ်ငန်းစွင်အလုပ်လုပ်လိုင်မှုအခြေအနေအခုပ် အကြံပြီးရက် (က) ရာညံသံများအခြေအနေ	(ယ) ခရားကြောသန်ရှင်းရေးစနစ်
(ယ) အပူနီအမွှားများအခြေအနေ — ²⁰ ရှိ (င) လေဝင်လေထွက်	(င) လေဝင်လေထွက်
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)ြေဆာင်ဒီ ၄၊ သိမြာအတြံပြရက်မျာ	(၈) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်) ငှာ သိရြာအာကြိမ္မတ်မှား
ουδμοδ <u>C</u> ορφι <u>Unikes</u> <u>T</u> 2	

Green Myanmac Environmental Services Co., Ltd No.115, Kanaung Min Thar Gyi Road, Industrial Zone (1), Hlaing Thar Yar Industrial City, Yangon, Myanmar Tet: 09 897 978 296, 09-5081451 E-mail: gmescompany/@gmail.com. info@gmes-mn.com "Myanmar Asia Optical International Co., Ltd. " & of \$2000 contents of \$200	Green Myanmac Environmental Services Co., Ltd No.115, Kanaung Min Thar Gyi Road, Industrial Zore (1), Hlaing Thar Yar Industrial City. Yangon, Myanmar Tel: 09 897 978 296, 09-5081451 E-mail: <u>mescompany@gmail.com.info@gmes-mn.com</u> "Myanmar Asia Optical International Co., Ltd. " of yfictoryza@g@goochocyficficrybefrazogoo uobefungblockfigwadzoek (Environmental Management Plan – EMP) acqzigficuptovochocofig ofuckingblockfigwadzoek (Environmental Management Plan – EMP) acqzigficuptovochocofig ofuckingblockfigbrazionacyticoccyficgicrybefrazogoo (co) cybickfigbrazionacyticoccyficgicrybefrazogoo (co) cybickfigbrazogoo (co) cybickfigbrazogoo (co) cybickfigbrazogoo (co) cybickfigbrazogoo (co) cybickfigbrazogoo (co) cybickfigbrazogoo (co) cybickfigbrazogoo (co) cybickfigbrazogoo (co) cybickfigbr
(ດ) သန့်စင်ခန်းများ	(ဂ) သန်စင်စန်းများ
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ဂ) သန့်ပင်မန်းများ (ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်
၂	၂။ လုပ်ငန်းနှင်အလုပ်လုပ်ကိုပ်မှုအမြေအနေအခေါ် အကြံခြံရွက် (က) ရာညံသံရားအခြေအနေ
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Green Myanmar Environmental Services Co., Ltd No.115, Kanaurg Min Thar Gyi Rosel, Indoutrial Zone (1), Hlaing Thar Yar Industrial City, Yangon, Myanmar Tet: 09 897 978 296, 09-5081451 E-mail: gmescompany@gmail.com, info@gmes-mm.com	Green Myanmar Environmental Services Co., Ltd No.115, Kanaung Min Thar Gyi Road, Industrial Zone (1), Haing Thar Yar Industrial City, Yangon, Myanmar Tet: 09 897 978 296, 09-5081451 E-mail: gmescompany@gmail.com, info@gmes-mm.com
" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအခိုးမို့ဖုထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကျင်ပိမ်ခန့်ခွဲဖွဲ့ဆစီအဝဉ် (Environmental Management Plan – EMP) နေရာန်ခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းခွင့်ဆိုင်ရာ အကြံပြာမျက်များရပူခြင်း	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအခိုးမိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကျင်စိမ်နေနွဲခွဲဟူအစီအဝဉ် (Environmental Management Plan – EMP) ရေးဆွဲပြင်းမှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းရှင်ရော်မှ အကြံပြုံရှက်များရသူမြင်း
၁။ လုပ်ငန်းစွင်ကျွန်းမာရေးနှင့်သေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံမြ၍က်	ာ။ လုပ်ငန်းခွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှင်း၍အကြံပြုရက်
(က) လက်ရန်းခင်အကာအကယ်မှာသူးများ	(က) လုပ်ငန်းရွင်အကာအကွယ်ပစ္စည်းများ
(a) annonina 6200 69 23	(ခ) သောက်သုံးရေ
(၀) သန့်စင်ခန်းများ	(၀) သန်စင်ခန်းများ
(ဃ) ဆေးကြောသန့်ရှင်းရေးစနစ်မှိ	(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်
။ လုပ်ငန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြံမြုရက်	၂။ လုဝ်ငန်းရှင်အလုဝ်လုဝ်ကိုင်မှုအခြေအနေအပေါ် အကြံပြုရက်
	(m) minimize $max - m^2$
(၈) အနံ့အသက်/အမ်ိဳးအရွေ့များ	(၈) အနံ့အသက်/အစိုးအငွေ့များ္မိုသိ
(ဂ) လုပ်ငန်းရွှင်အလင်းစရာင်	(၀) လုပ်ငန်းနွင်အလင်းရောင်
(11) 2005 2007 2005 - 20	(၈) (ပုံပင်နှစ်ပေးပေးများသရေအနေမရှိမရှိ
(ພ) ເມຊູເມເຊັ່ງ, ເຊິ່ງ ແລະ ເຊິ່ງ ເ	(യ) യൂട്ടെയ്യായുടായുട്ടായുട ്ടാം എന്നാള്. (c) സേര്സേയ്യന് എന്നോള്ം, ജന്നോള്:
	(င) လေဝငလေထွက
၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအခပါ အကြံပြုရှက်	၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုရှက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)အာကင်း	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)
(e) လုပ်တော်ကိုင်ဗက် (အဆင့်တူ)	(ခ) လပ်ဖော်ကိုင်ဖက် (အဆင်တ)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)G ⁹²⁹ င်း	(ဂ) လက်အောက်ဝန်ထမ်း (ဒိမိလက်အောက်)
၄။ තීලාසල්විටුකුරාදා: 	දා කීලාශානිවුලුරාදා:
လက်မှတ် Sa	

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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအချီးရှိဖွဲ့တွတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကူင်မီငံနေနဲ့ဖူးအမီအစဉ် (Environmental Management Plan – EMP) စနော်မြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းစွင်ဆိုင်ရာ အကြံပြေရက်နားရသူခြင်း	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူအအိုးရှိမှုတုတ်လုပ်ခြင်းလုပ်ငန်အတွက် ပတ်ဝန်းကျင်ဗိမင်နိုခွဲမှာဆီအစဉ် (Environmental Management Plan – BM?) နေရာရှိခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုချက်ရားလျော်ခြင်း
အေးကြာသန့်ရှင်းရေးစနစ် (က) လွှောင်နန်းတိုင်းရေးစနစ် (က) လွှစ်နောင်အားကျွှောက်များက (က) သွန်စင်နေးများ (က) သွန်စင်နေးများ (က) သွန်စင်နေးများ (က) သွန်စင်နေးများ (က) ဆွေးကြာသန့်ရှင်းရေးစနစ် (က) ဆွေးကြောသန့်ရှင်းရေးစနစ်	၁။ လုပ်ငန်းနှင့်ကျန်းမာရေးနှင့်သေးဆန္တရာယ်ဘာကွယ်ရေမပွည်များနှင့်စင်ကျဉ်းရှိအကြံမြရက် (က) လုပ်ငန်းနှင့်အကာအကွယ်မပွည်များ
(လ) မိန်းမားရဲ႕ သန္နာမားရာမှာ (၂၂) နိုင်ငံ	(ယ) ဆေးကြာသန့်ရှင်းရေးနနစ်
දා ක්ලියක්තිවුල්ත්තය 	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)
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Mannar Asia Optical International Co., Ltd. " of up5/20xx26/20x26/	Green Myanmar Environmental Services Co., Ltd No.115, Kanaung Min Thar Gyi Road, Industrial Zone (1), Hlaing Thar Yar Industrial City, Yangon, Myanmar Tet: 09 897 978 296, 09-5081451 E-mail: genecompart/(genalicom, info//genes-mm.com) Myanmar Asia Optical International Co., Ltd. * 61 95-50xprss/ge/geoptox/bfg/Excybol_ssococh oscols
ပနားသမားကို ကိုလာသားသားသော ကိုလာသားသော ကိုလာသားသော အကို အကိုလာသားသော အကိုလာသားသော အကိုလာသားသော အကိုလာသားသော အကိ ၁။ လူသိုင်န်းခွင်ကျန်းမာရေးနှင့်တေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စင်လူဦး၍အကြံမြမျက်	
၁။ လုပ်ငန်းခွင်ကျွန်းမာခရေးနှင့်သေးဆန္တရာယကာကွယ်ရေးပဋိညာများနှင့်ပေးလူဦးခြောက္ကမြူများ (က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများမဲ. ခီ. (၁၂	၁။ လုပ်ငန်းခွင်ကျန်းမာရေးနှင့်စဘးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လူဦး၍အကြံပြုချက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ
(စ) သောကသုံးရေ	(စ) သောက်သုံးရေ
(ဂ)	(ဂ) သန့်စင်ခန်းများ
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်ြ	(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်
၂။ လုပ်ဝန်းရွှင်အလုပ်လုပ်ကိုင်မှုအခြေအခုနအပေါ် အကြံပြုရှက်	📱 လုပ်ငန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအဝပ် အကြံပြုရှက်
(က) ရာညံသံများအခြေအနေ	(က) ရာသံသံများအခြေအနေ
(က) ဆူညံသံများအခြေအခန္ြ (ခ) အနဲ့အသက်/အစိုးအခဋ္ဌ များမိြ	(၈) အနံ့အသက်/အစိုးအငွေ့များ
(၇) လုပ်ငန်းခင်အလင်းရောင်မှ	(c) ယိုင်န်းစွင်အလင်းရောင်
(ဃ) အမှုန်အမွှားများအခြေအနေ(ထို႕	(၈) လုပ်ငန်းနွင်သင်လမ်းချင် (ယ) အမှုန်အမွှားများအခြေအနေ
(c) လေဝင်လေထွက်	(ယ) အမှုနားမွှားများအမြေအမှ (င) လေဝင်လေထွက်
· · · · · · · · · · · · · · · · · · ·	(c) cooccoogo
၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုရှက်	၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုရုက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)
(စ) လုပ်ဗော်ကိုင်ဖက် (အဆင့်တူ)	(ခ) လုပ်ဖတ်ကိုင်ဖက် (အဆင့်တူ)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)
ငှ၊ သိမ္မာအတိပြီဖြစ်ရာ။ 	දා න්ලාකාල්ටුහුරාදා
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၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှည်း၍အကြံပြုရှက်	၁။ လုပ်ငန်းခွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံပြုရက်
(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ
(a) annosition of the second	(ခ) သောက်သုံးရေ
(a) asocaling in march y g stores in the start of the second seco	(ဂ) သန့်စင်ခန်းများ
(ω) concompositive for δ	(ဃ) ဆေးကြောသန့်ရှင်းရေးစနစ်
၂။ လုဝ်ဝန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအခုနှအပေါ် အကြံပြုရက်	၂။ လုဝ်ငန်းစွင်အလုဝ်လုဝ်ကိုင်မှုအခြေအနေအပေါ် အကြံပြုရက်
and the second s	(က) ဆူညံသံများအခြေအခန
(a) memory/memory (m. 5/032	(စ) အနံ့အသက်/အစိုးအငွေ့များ
(a) လိုင်နှံနှင့်အလင်းစနာ သို့သားသည့် ကျောက်ကျောက်ကျောက်ကျောက်ကျောက်ကျောက်ကျောက်ကျောက်ကျောက်ကျောက်ကျောက်ကျောက်က	(ဂ) လုပ်ငန်းနွင်အလင်းရောင်
(ယ) အမှုန်အမွှားများအခြေအနေ	(ယ) အမှုန်အမွှားများအခြေအနေ
(c) လေဝင်လေထွက်	(င) လေဝင်လေထွက်
၃။ လုပ်ငန်းစွင် လူမှုထက်ထံရေးအရြေအနေအပေါ် အကြံပြရက်	၃။ လုပ်ငန်းနွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုရက်
(က) လုပ်ငန်းစဉ်ကြီးကြပ်သ (မိမိအတွက်) - အသင်္ဘြောင်းသည်	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)
(ခ) လုပ်ဖော်တိုင်ဖက် (အဆင်တ) အာဘာသာသြ သို့ ကာသာ	(ခ) လုပ်စော်ကိုင်ဖက် (အဆင့်တူ)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)
දා න්ලිතෘල්ලිල්ආර්භය	ය තුළිකතුලිවුත්රාණ
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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူအေရှိချိုးထုတ်လုပ်မြင်းလုပ်ငန်းအတွတ် ပတ်ဝန်းကျင်မိစ်နေနဲ့ခွဲမှုအစီအဝဉ် (Environmental Management Plan – EMP) နေနာ့မြင်းနှင့်ပတ်သတ်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းနှင့်မရှင်ရာ အကြံပြုရွက်ရှားရယူခြင်း	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအအိုရှိရှိစုထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကွင်မိမဲရန်ခွဲမှုအဗီအဝဉ် (Environmental Management Plan – EMP) ရေးဆွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းမှာ၏ လုပ်ငန်းနှင်မိုင်ရာ အကြံပြုရက်များရသူဖြင်း
ာ။ လုပ်ငန်းစွင်ကျန်းမာခရာနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုချက်	ာ၊ လုပ်ဝန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှူဦး၍အကြံပြုရက်
(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ
(စ) သောက်သုံးရေ	(စ) သောက်သုံးရေ ြောခုသို
(ဂ) သန့်စင်ခန်းများသန် နှင်	(ဂ) သန့်စင်ခန်းများ မောာန် မျှင်း
(မ)) ဆေးဖကြာသန့်ရှင်းရေးစနစ်	(ဃ) ဆေးကြောသန့်ရှင်းရေးစနစ်
၂ လုပ်ငန်းနှင့်အလုပ်လုပ်ကိုင်းမှုအခြေအနေအခေါ် အကြံပြီမြက် (က) ရှာညံသံမှားအခြေအနေ (ခ) အနဲ့အသက်/အစိုးအခဋ္ဌ.များ (ခ) လုပ်ငန်းနှင့်အလုပ်အရာင် (က) လုပ်ငန်းနှင့် လူမှုထက်ထဲရေအခေါ်အခြေမှာက (ယ) အပွန်အမှားများအခခြေအနေ (င) လေဝင်ဒေလထွက် (က) လုပ်ငန်းနှင့် ကြီးများပြီးကို (ငိဒိအထက်) ကြောင် (တ) လုပ်ခန်းနှင့်ကြီးများပြီးကို (ငိဒိအထက်) ကြောင် (က) လုပ်ခန်းနှင့်ကြီးများပြီးကို (ငိဒိအထက်) ကြောင် (က) လုပ်အောက်ဦးရက် (အထင့်က) ကြောင် (က) လက်အောက်ဝန်ထမ်း (ဒိုစိလက်အာက်) ကြောင် (က) လက်အောက်ဝန်ထမ်း (ဒိုစိလက်အောက်) ကြောင် (က) လုပ်ခန်းချင်ကြီးများ	မ လုပ်ငန်းနှင်အလုပ်လုပ်ခုံမှာမြောနေအပေါ် အကြံမြူရာက် (က) ရာညံသံများအခြေအနေ မန် (က) ရာညံသံများအခြေအနေ မန် (က) လုပ်ငန်းနှင်အလုပ်အရာင် လို့ကေသက် နေ ကြ (က) လုပ်ငန်းနှင်ကြန်ကြင်သူ (က) လုပ်ငန်းနှင်ကြန်ကြပ်သူ (ပိစ်အထက်) မန် (က) လုပ်ငန်းနှင်ကြန်ကြပ်သူ (ပိစ်အထက်) ကေသာင် (က) လုပ်ငန်းနှင်ကြန်ကြပ်သူ (ပိစ်အထက်) ကေသာင် (က) လုပ်အောက်ငံရက်မ (ဖိစ်လက်အာက်) ကေသာင် (က) လက်အောက်ငန်ကမ်း (ဖိစ်လက်အာက်) ကေသာင် (က) လက်အောက်ငန်ကမ်း (စိမ်လက်အောက်)
ార్కోలు	

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၁။ လုပ်ငန်းရှင်ကျန်းမာရေးနှင့်သေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်ဝွင်လူဦးရုံအကြံပြုရက်	ား လုပ်ငန်းစွင်ကျန်းမာချေးနှင့်တေးအန္တရာယ်ကာကွယ်ရေးပစ္တည်းများနှင့်စွင်ကျွမ်း၍အကြံပြုရက်
ာ ကိုင်းနှားကို ကိုင်းသားသို့နှားကားကို ကိုင်းကိုင်းကို ကိုင်းကို ကိုင်းကိုင်းကို ကိုင်းကို ကိုင်းကို ကိုင်းကို (က) ကိုင်းနှားကို ကိုင်းကိုင်းကိုင်းကိုင်းကိုင်းကိုင်းကိုင်းကိုင်းကိုင်းကိုင်းကိုင်းကိုင်းကိုင်းကိုင်းကိုင်းကို	၁။ လုပငန်းစွင်ကျွန်းမာရေးနှင့်အေးအန္တရာယကာကွယ်ရေးပရည်းများနှင့်ပွဲလေများခြားကိုများက (က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ
(၈) လုပ်ငန်းမွှင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ (စ) သောက်သုံးရေ
(၀) စသက်သုံးရေ (ဂ) သန့်စင်စန်းများ	(စ) သောကသုံးရေ
(ဂ) သန့်ဝင်ဝန်းများ	(ဂ) သန့်စင်စန်းများ
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ယ) စဆားကြောသနဲ့ရှင်းရေးစနစ်ငစ်ပြ(သင်္ဂသင်္ဂ
၂။ လုဝ်ငန်းနှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအခေါ် အကြံမြုံရှက်	၂။ လုပ်ငန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြံပြုချက်
(က) ဆူညံသံများအစရြအနေ	(က) ဆည်သံများအစရြအနေရှိရှိ
(စ) အနံအသက်/အနီးအရွှေများ	(၈) အန်အသက်/အစိုးအရှေ့များမာဝဝဝဝဝင်း
(ဂ) လုပ်ငန်းရှင်အလင်းရောင်	(ဂ) လုပ်ငန်းရွင်အလင်းခရာင်မြို့ ကြွှဲစြောက်သို့မြို့
(ဃ) အမွန်အမွှားများအရေအနေ	(ဃ) အမန်အမှားမားအခြေအနေ
(c) enobernagon- Air-Con	(c) enotenagon
၃။ လုပ်ငန်းနှင့် လူမှုထက်ထဲရေးအစရြအစနေအပေါ် အကြံပြုရက်	၃။ လူမှုထက်စရာအခြေအနေအခြေအနန်သီဟု အခြံမြရက်
(က) လုပ်ငန်းနွင်ကြီးကြပ်သူ (ဖိမိအထက်)	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)
(ခ) လုပ်ခော်ကိုင်ဖက် (အဆင့်တူ)	(a) ကိုမ်စတ်ကို (အဆင့်တူ)
(၈) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)၆၇၇၇၆၂
၄။ သိရားအကြံပြရက်များ 	ငှာ သိမြားအကြံပြရတ်များ
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ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအခိုးရှိထွတ်လုပ်ဖြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကူဝိစီပံခန့်ခွဲဟာစီအစဉ် (Environmental Management Plan – EMP) ခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုချက်နားရသူမြင်း	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူအခရိုးရှိမှုထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကွင်စိမ်ခွေနဲ့ခွဲမှုအစီအစဉ် (Environmental Management Plan – EMP) ခေုဆွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းနှင့်ဆိုင်ရာ အကြံပြီးရက်များမှုလူခြင်း
အ လုပ်ငန်းစွင်ကျန်းမာစခုနှင့်စားအန္တရာယ်ကာကွယ်ရေးမဖွည့်များနှင့်တိုလူဦး၍အကြီးခြရာကိ (က) လုင်ငန်းစွင်အကာအကွယ်မစ္စည်းများမကြီးခဲ့သည်၍ မာခဲ့နဲ့သည် (စ) စသာတိသုံးရေစဉ်စာသာက မျှေးခြားမျိဳးသည့် အိုးနှင့်နှင့် သည့် မြင်းကျွေးမတွေ မြော် (၈) သန့်စင်ရန်းများမိုးစာသာက မျှေးခြားမျိုးလာဘာနေများ ဦးကိုးအဦးကြီး (၈) အဆာကြောသန့်ရှင်းရောနေစ်မိုးစာသာနေများ ဦးကိုးအဦးကေ	၁။ လုပ်ငန်းခွင်တွန်းမာခရေနှင့်ဘေးအမွှဲရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်ဝင်လူဦးရဲအကြံမြဲရက် (က) လုပ်ငန်းခွင်အကာအတွယ်ပစ္စည်းများ
(c) రుదంరటయ్య	၂။ လုပ်ငန်းနှင့်အလုပ်လုပ်လိုက်မှုအခြေအနေအခန် အကြံခြရက် (က) ထုည်သများအခြေအခန္
ధా గార్గంక్ సర్వీటర్ల గ్రామానులు జార్మాలకానించి జార్మార్లింగ్లు (లు) గార్రంక్ సర్వీటర్లో స్టార్ రికియింది)	(၉) မလေမလေ့ကာ ဘူး လုပ်ငန်းခွင် လူမှုလော်ထံရေအမြေအမနုအမပါအကြို့မူရက် (၈) လုပ်စော်ကိုင်ခက် (အဆင့်သူ)

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ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်တီလူအာရိုးရိုမှာတုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကျင်မိမ်မန့်ခွဲမှုအမီအမည် (Environmental Management Plan – EMP) မနေအိုခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းမှား၏ လုပ်ငန်းနှင့်ထိုင်ရာ အကြံပြုံချက်မှားရလူဖြင်း	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဝင်္ဘားဆရှိမရှိစတွက်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းတရုပ်စံခန့်ခွဲဖော်စွဲသည့် (Environmental Management Plan – EMP) ရေးဆွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းရာ၏သို့တွဲနောင်ခြင်းခွင်တွဲတဲ့ အကြံ၌ပြရက်များရသူမြင်း
မ၊ လုပ်ငန်းနှင်ကျန်းမာခရေးနှင့်ဆေးအန္တရာယီတာကွယ်ရေးမစ္စည်းများမှင့်စင်လူဦးရဲ့အကြံမြဖျက် (က) လုပ်ငန်းနှင်အကာအကွယ်ပစ္စည်းများ (၈) သန့်စင်ရန်းများ (ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်သေးအမ္တရာယီကာကွယ်ရေးမစ္စည်းများမှင့်စင်လှည်းရှိအကြံမြရက် (က) လုပ်ငန်းစွင်အကာအကွယ်ဖစ္စည်းများနားကြင်းဖို့သင် (စ) စသာက်သုံးရေ
၂ ကုပ်ငန်းနွှင်အလုပ်လုပ်ကိုပ်ဖူအမြေအာနဘာမ၊ အကြံမြရက် (က) ရာညံသံများအခြေအာန္ – အိန္နင်ငံ ရှိ ရှိ (စ) အန်အသက်/အစိုးအခွင့် များ – မေငြ (၈) လုပ်ငန်းနှင်အလင်းရောင် – – – – – – – – – – – – – – – – – – –	၂။ လု ဝိဝန်းရှင်အလုပ်လုဝ်ကိုပ်မှုအားခြဲအာနေအာမပါ အကြံပြုဖူက် (က) ရာညံသံများအခြေအာန္ <i>ပြီး၊ အည်န်း မျိုးဖြင့် : (ကရင်းလွန် ငြင်းလွန်းဖြင့် :</i>
(၁) လုပ်ငန်းနှင့် လူမှုထက်လဲအောမြေအနေအာမပါ အကြံပြရက် (က) လုပ်ငန်းနှင့်ကြီးကြင်သူ (ဒီမီအထက်)- <i>ခံသင်းင်ပြ</i>	(c) లెసిర్జనియైన్
 గార్పుల్లి కార్టించింది. స్ట్రీల్లి స్ట్రిల్లి స్ట్రీల్లి స్ట్రిల్లి ్లి స్ట్రిల్లి స్ట్రిల్లి స్ట్రిల్లి స్ట్రిల్లి స	9 26222 2020 21/2022 22 2020 2020 2000 2000 2020 2000 2000 2000 2000 2000 2000 2

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ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအခိုးမရှိလွှတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်မာဒွစ်မီစံခန့်ခွဲအစီအဝဠ် (Environmental Management Plan – EMP) နေရာခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းချားရှိလုပ်ငန်းနှင့်စံဆိုရော အကြံဖြရက်များရမှုပြင်	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီဘူးအထိုမရှိထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကွမ်ပိမ်နန်ခွဲနယ်ခြင့်မနှင့်ပတ်သက်၌ ဝန်ထမ်းမှာ၏ လုန်ထန်းခွဲနေခဲ့လိုက်ခွဲနေခဲ့လိုက် အကွေမြို့မျက်မှာရလူမြင်း
၁။ လုပ်ငန်းစွင်ကျွန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ့်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်းရုံအကြံမြရုတ်	၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှူဦး၍အကြံပြုရှက်
(က) လွန်းနှစ်အကာအကယ်မှုစည်းမှား (ပိုက်ကြာ) ပိုးဆက်၊ (စိုးဆိုပို) (ဆိုက်ချင်)	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ
(a) annor (20/3201) 20/06 2222 201 (20 322) (11 (1, 24 52) 00 21 12 (3/36)	(၃) ကာက်သူက မေသန် အချိုးအချား
(a) and a fair and a fair (24) solute (1) (a) solution (2)	(၀) သန်စစ်ခန်းမှာ ဖွယ်ငန် ခွင်းစတွက်တော့ သန် ရှင်းမှုကို / အခွေဘင်အခွဲ စင်ခွင်းသင့် ရှင်မှ အက်ခုင်
(တ) ဆန့်တွေးမျိုး (တ) ဆွေးကြောသန့်ရှင်းရေးနေစ် စာဘက်များ ဆို … မိဆီးရိုးလေးခန့် . မှ . ခုနှန် (ထားဘုန်အာကိုင်း တေငြ	(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်
၂။ လုပ်ဝန်းစွပ်အလုပ်လုပ်ကိုပ်မှုအူခရြအနေအခေါ် အကြံပြုရက်	၂။ လုပ်ငန်းရွှင်အလုပ်လုပ်ကိုင်မှုအရြေအနေအစပ် အကြံမြရွက်
(က) ရာညံသံများအခြေအနေ (နိုင်ငံ) ၁၁၁၇ နှစ် (20) သည် သည် ၁၇ ညီသံတက်မ ပို့ရ	(က) ဆာသံများအခြေအနေ မော်တာသူနော်သံများပြင်ဆင်ရန်ကို အပ်
(a) mimoral (a) (b) (b)	ကြ ကျွန်သည်က နေရာ ကျွန်း အနေရာ အနေရာအာ ကျွန်းနှင့် အနိုင်နာ ကျွန်းနှင့် ကျွန်းခြင်း ကျွန်းခြင်း (၈)
(၈) လုပ်ငန်းစွင်အလင်းရောင်	(ဂ) လုပ်ငန်းရွင်အလင်းရောင်
(W) အမွန်အမွှားများအစစ်အစန္	(ဃ) အမှုန်အမွှားများအရြေအနေ
(c) လေဝင်လေထွက် ကျန်းမာကားနဲ, ဆီညတ်ခြင်း	(င) လေဝင်လေထွက်
၃။ လုပ်ငန်းနှင် လူမှုဆက်စေအောမြေအနေအပေါ် အကြံပြရက်	၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုရှက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)မောာင်းမြှင်ရှ	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)
(a) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)	(က) လုပ်နော်တိုင်ဖက် (အဆင့်တူ)
(၈) လက်အောက်ဝန်ထမ်း (စိမိလက်အောက်)Q. န်းအခန်းနာဂျင် မြက်နာပြင်ခြ	(၈) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)
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Environmental Services Co., Ltd	Environmental Services Co., Ltd
No.115, Kanaung Min Thar Gyi Road, Industrial Zone (1), Hlaing Thar Yar Industrial City,	No.115, Kanaung Min Thar Gyi Road, Industrial Zone (1), Hlaing Thar Yar Industrial City,
Yangon, Myanmar Tel: 09 897 978 296, 09-5081451 E-mail: gmescompany@gmail.com, info@gmes-mm.com	Yangon, Myanmar
Tel: 09 897 978 296, 09-5081451 E-mail: gmescompany/agmail.com, into/agines-tuin.com	Tel: 09 897 978 296, 09-5081451 E-mail: gmescompany@gmail.com, info@gmes-mm.com
ိ Myanmar Asia Optical International Co., Ltd. " ၏ မုန်ဘီလူးအမှိုးမြိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက်	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအမိုးမှိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက်
ပတ်ဝန်းကျွင်စီမံခန့်ခွဲမှအစီအစဉ် (Environmental Management Plan – EMP) ရေးဆွဲမြင်းနှင့်ပတ်သက်၍	ပတ်ဝန်းကျင်စီမံစန့်ခွဲမှုအစီအစဉ် (Environmental Management Plan – EMP) ရေးဆွဲခြင်းနှင့်ပတ်သက်၍
းဒီခြယ္စမူးရမွာလူတြောင္ အုဒီလိုနာဒီခုအိုသိမ္ရာ အကြပ္ခြမျက်များရယူခြင်း	ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုမျက်များရယူခြင်း
ာ။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုရက်	၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှည်း၍အကြံမြာရွက်
(က) လုပ်ငန်းနွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းရှင်အကာအကွယ်ပစ္စည်းများ
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။ လုတ်ခန်းစွင်အလုတ်လုတ်လိုမှုအာခြေအနေအာပေါ် အကြံပြုရတ် (က) ဆူသံသံများအခြေအနေနောက်ကုန်းနေနေအနိုင်ကို ကိုန်းစန်းကို အစိုးကို အစိုးကို ကိုန်းစန်ခြေအာခြေအာခြေအာခြ	၂။ လုဝ်ငန်းရှင်အလုဝ်လုဝ်ကိုင်မှုအခြေအနေအပေါ် အကြံပြုရက်
(က) ဆုန်အဘယ္/အစိုးအဝင္ များ	(က) ဆူညံသံများအစစြအစန္
(a) အနုအသက/အစုံးအဝင္မွ များမြေးအားေပ်လားသားမွာ မိုသို အမိုက္ရွိသို့ အမိုက္ရွိသို့ အမိုက္ရွိသို့ အမိုက္ရွိသို့ (b)	(စ) အနံ့အသက်/အစိုးအ၀င္မွ များ
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(ဃ) အမွန်အမွှားများအစရြအစန	(က) အမှုန်အမွှားများအခြေအနေမိပ္ပီမိပ္ပီ
(c) ເບດຽຂເບαູກ໌	(င) လေဝင်လေထွက်
၃။ လုပ်ငန်းစွင် လူမှုထက်ထံရေးအရြေအနေအပေါ် အကြံပြုရက်	
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(a) လုပ်ဖော်ကိုင်ဖက် (အဆင်တ)	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (ဖိဖိအထက်)
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Environmet No.115, Kanaung Min Thar Gyi Tel: 09 897 978 296, 09-508145 ** Myanmar Asia Optical International Co., Ltd. oxfoctaroj686ag3yaz62006 (Environmental M	Myanmar Road, Industrial Zore (1), Hlaing Thar Yar Industrial City. Yangon, Myanmar I E-mail: amescomputy/@email.com, info@genes-mm.com *# ψf-hyters/#afagoo/hyte/g6iny0cf4ax000 *# ψf-hyters/#afagoo/hyte/g6iny0cf4ax000 *# ψf-hyters/#afagoo/hyte/g6iny0cf4ax000 *# ψf-hyters/#afagoo/hyte/g6iny0cf4ax000 *# ψf-hyters/#afagoo/hyte/g6iny0cf4ax000	Green Myanmar <u>Environmental Services Co., Ltd</u> No.115, Kanaung Min Thar Gyi Road, Industrial Zone (1), Hlaing Thar Yar Industrial City, Yingon, Myanmar Tet: 09 897 978 296, 09-5081451 E-mail: gmescompany/gemail.com, info@gmes-mm.com * Myanmar Asia Optical International Co., Ltd. * ai sp&Srzez@a@gcoOxy6ESixvbc&fizeococh udo&fizeofi@cochge@cochge.gcd@cochge@cochge.gcd@cochge@coch
၁။ လုပ်ငန်းခွင်ကျန်းမာဓရးနှင့်ဘေးအန္တရာယ်ကာကွပ	ခရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံပြုရက်	ာ၊ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံမြုရက်
(m) ລາຍເຮົາວຽກກາງການເປັນຄວາມພາ	R	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ
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(စ) သောကသုံးရေ (ဂ) သန့်စင်ခန်းများမှ	,	(n) သန့်စင်ခန်းများ
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 မှ လုန်ဝန်းနှင့်အလုန်လုန်လိုင်မှုအခြေအနေအခေါ် အ (က) ရာညံသံများအခြေအခန (က) ရာညံသံများအခြေအခန (က) လုပ်ငန်းနှင့်အလုန်းအရွေးများ (က) လုပ်ငန်းနှင့်ကြွေးတွင်ခြဲအနေ (က) လုပ်ငန်းနှင့်ကြိုကြားရှိသူမြေအနေ (က) လုပ်ငန်းနှင့်ကြိုကြားရှိသူမြေအနေ (က) လုပ်ငန်းနှင့်ကြိုကြားရှိသူမြေအနေ (က) လုပ်ငန်းနှင့်ကြိုကြားရှိသူမြေအနေ (၈) လုပ်ငန်းနှင့်ကြိုကြားရှိသူမြေအနေ (၈) လုပ်ငန်းနှင့်ကြိုကြားရှိသူမြေအနေ (၈) လုပ်ငန်းနှင့်ကြိုကြားနေအခြေအနေ (၈) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	တြဋိရာနာ မှ 	၂ လုပ်ခန်းနှင်အလုပ်လုပ်ကိုင်မှုအစမြားနေအမဒ် အတြံမြုံရက် (က) ရာညံသံများအခြေအခန္ (စ) အနဲ့အသက်/အစိုးအခဋ္ဌ များ (၈) လုပ်ခန်းနှင့်အလုပ်ခံစရာခု (၀) သူနန်းအားများအခခြေအနေ အမေ (၀) အမူန်းအားများအခခြေအနေ အမေ (၀) လုပ်ခန်းနှင့်ကြီးကြပ်သူ (စိမိအထက်) (၈) လုပ်ခန်းနှင့်ကြီးကြပ်သူ (စိမိအထက်) (၈) လုပ်ခန်းနှင့်ကြီးကြပ်သူ (စိမိအထက်) (၀) လုပ်ခန်းကိုင်ရက် (အထင့်သူ) (၀) လက်အောက်ဝန်ထင်း (စိမိလက်အောက်) (၀) လက်အားက်ဝန်ထင်း (စိမိလက်အောက်)
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ိ Myanmar Asia Optical International Co., Ltd. " of ပတ်ဝန်းကျင်စီပံခန့်ခွဲဖွားစီအစဉ် (Environmental Mana ဝန်ထစ်းများ၏ လုပ်ငန်းရွှင်ထိုင်ရေ	i မှန်ဘီလူးအမှိုးမှိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် igement Plan – EMP) ရေးဆွဲခြင်းနှင့်ပတ်သက်၍) အကြံပြုရုက်များရသူခြင်း
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(စ) သောက်သုံးရေ	
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(က) ဆူညံသံများအခြေအနေ	
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(ဂ) လုပ်ငန်းရွင်အလင်းရောင်၂	
(ဃ) အမှုန်အမွှားများအခြေအနေမိုးကို	
(c) സാർസേയ്യന്	
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\$6cam: 60609:30405 9-130004 (20) 201545	ဆက်သွယ်ရန်လိပ်တ <u>ဖင်္ဂကာဒ်</u>

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Environmenta	al Services	Со.,	Ltd
No.115, Kanaung Min Thar Gyi Road Y. Tel: 09 897 978 296, 09-5081451 E-m	angon, Myanmar		

၁။ လုပ်ငန်းခွင်ကျန်းမာရေးနှင့်ဘေးအန	နရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုရက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်	чр:
(စ) သောက်သုံးရေ	69223
(ဂ) သန့်စင်ခန်းများ	
(ဃ) ဆေးကြောသန့်ရှင်းရေးစနစ်	<u>Ş</u>
မျှေစေမှုဒိုကိုပိုကုပိကုအဒိစ္စ၊နိုဝဒိုက ။	အခနအပေါ် အကြံပြုရက်
(က) ဆူညံသံများအခြေအနေ	<u></u>
(စ) အနံ့အသက်/အရိုးအငွေ့များ	<u> </u>
(၈) လုပ်ငန်းစွင်အလင်းရောင်	<u>}</u>
(ဃ) အမှန်အမွှားများအခြေအနေ	<u>y</u> e
(၁) လေဝင်လေထွက်	ia j
၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအရေ	အမှနအပေါ်အကြိမ်ရက်
က) လပ်ငန်းစင်ကြီးကြပ်သ (မိမိအထ	ირ)
(ခ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)	
(စ) လုပ်ဇော်ကိုင်ဗက် (အဆင့်တူ) (ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်ဖ	
(စ) လုပ်ဇော်ကိုင်ဗက် (အဆင့်တူ) (ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်ဖ	
(စ) လုပ်ဖော်ကိုင်ဗက် (အဆင့်တူ) (ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်ဖ	
(စ) လုပ်ဖော်ကိုင်ဗက် (အဆင့်တူ) (ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်ဖ	22006)
(စ) လုပ်စော်ကိုင်ဗက် (အထင့်ဘူ) (ဂ) လက်အောက်ဝန်ထမ်း (ဒိမိလက်စ ငှာ သီကြာအကြံပြုရက်ရား	222075)
(ల) సార్జంతానికితాన (జాబార్తాన్నా) (ဂ) సిగాణ్ సార్గంథ్రియి: (కొకిసిగారు ధి చేత్రిగాజర్స్ ప్రశాన-భా సార్యాత్తి	222075) qoq: Worker
(m) గురంక్ష్ముకర్రొశ్రుల్లొనిని (కిరిణా (a) గురంకాగిరివార (జుబరిస్తా) (a) గురంకాగిరివార (జుబరిస్తా) ధి చిద్రిజుర్రొర్పెడ్డిగికా నిర్మిహ్ లుర్మం	22275) qoq: .Work91

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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူအာမိမှုမိုးထုတ်လုပ်မြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကူင်စိမ်မန့်ခွဲမှုအစီအဝဉ် (Environmental Management Plan – EMP) နေ့ဆွဲခြင်းနှင့်ပတ်သက်၍ ဝန်တမ်းများ၏ လုပ်ခန့်ခွင့်ဆိုင်ရာ အကြံပြဲရက်ရှားရလူမြော	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်တီလူးဆရိုးရှိမှာတွက်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းတွင်ပိပ်ဝန့်ခွဲပူအစီအဝင် (Environmental Management Plan – ENP) ဝနောင်ခြင်းမှင့်ပတ်သတ်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းနှင့်တိုင်ရာ အကြံပြဲရက်နောရသူမြင်
၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုမျက်	ာ။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံမြ၍ကိ
(က) လုပ်ငန်းစင်အကာအကယ်ပစ္စည်းများ	(က) လုပ်ငန်းရှင်အကာအကွယ်များမိတို
(a) သောက်သုံးရေ	(b) (၃၀) နောက်သုံးရေ
(a) 22662265 8 8	(၈) သန့်စင်ခန်းများ
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(၈) သန့်မင်နေမျိုး (ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်
န လုပ်ငန်းနှင့်အလုပ်လုပ်လိုင်မှုအားခြဲအားနေအာမ အကြံမြနက် (က) ရာည်သံမှားအားခြဲအားန	၂ လုပ်ငန်းနှင်ထာပိုင်လိုင်မိုအမြဲအနေအာမါ အကြံပြဲရက် (က) ရာညံသံမှားအခြေအနေ (၈) ရာညံသံမှားအခြေအနေ (၈) သွန်းစည်ကျနော်အဝဋ်းမှာ (၈) သွန်းစည်ကျနောက်ခြားနေအာမြေအနေ (၀) အမှန်းစည်ကျနောက်ခြားနေအာမါ အကြံပြုက် (၈) လုပ်ငန်းနှင်ကြိုကြင်ရာ (စီစိတထက်) (၈) လုပ်ငန်းနှင်ကြိုကြင်ရာ (စီစိတထက်) (၈) လုပ်စောကိုင်စက် (စစိတင်ရာ) (၈) လက်အောက်ဝန်ထမ်း (စီစိလက်အောက်) ၄ ကိုကြာအကြံပြုံရာက်မှာ
ురుశ్రీలు బాబ్ స్ట్రీజ్ స్ట్రీజ్ లార్యా బాబ్ స్ట్రీజ్ స్ట్రీజ్ స్ట్రీజ్ లాల్లా క్రీకిపానికింర్వణాప్రాల్ (శ్రీజ్ సికిస్ లాల్లాల్) శ్రీజ్ సికి లాల్లాల్లో లాల్లాల్లో లాల్లాల్లో లాల్లాల్లో లాల్లా స్ట్రీపిలుగు బాల్లాల్లో లాల్లాల్లో లాల్లాల్లో లాల్లాల్లో లాల్లాల్లో లాల్లాల్లో లాల్లాల్లో లాల్లాల్లో లాల్లాల్లో	ుర్పాల

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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်သီလူအအခြံးရိုးလွတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ခန်းကွင်ဗီမံခြေခွဲဖွားသော (Environmental Management Plan – EMP) ရေးဆွဲဖြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းမှာ၏ လုပ်ငန်းခွင်တိုင်ရာ အကြံဖြေရာက်မှားရလုပ်ဦး	ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူအာမျိုးမျိုးထုတ်လုပ်ခြင်းလုပ်ဝန်းအတွက် ပတ်ဝန်းကူင်စီမံဝန်ဒွဲမှုအစီအဝဉ် (Environmental Management Plan – EMP) ရေးဆွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းမှား၏ လုပ်ငန်းနှင့်ငရင်ခုနာ အကြိမ်ရှာကျေားရာပြောရာ
ခ၊ လုပ်ငန်းနှင့်ကျွန်းမာရေးနှင့်စသာအန္တလယ်ဘာတွယ်ရေးမင္စည်းများနှင့်စင်ကျွန်း၍အကြံမြဲဖျက် (က) လုပ်ငန်းနှင့်အဘာအတူလွယ်စွည်းများ (၈) ဆန့်စင်စန်းများ (၈) ဆန့်စင်စန်းများ (၈) ဆန့်စင်စန်းများ	၁။ လုပ်ငန်းနှင်ကုန်းမာရေးနှင့်သေးအမ္တရာလိဘာကွယ်ရေးမရူည်များနှင့်စပ်လွှင်းရှိဘကြမြစုက် (က) လုပ်ငန်းနင့်အဘာအကွယ်ပင္လင်းများ
(၈) သနိုင်ငံမန်းများ	၂ လုဝ်ငန်းမှစ်ထဲလုပ်လုပ်လုပ်မှုအမြေအာနေအခပါ အကြံခြံရက် (က) ရာညံသံများအခြေအာနေ
(ယ) အမွန်အမ္ဘားများအခြေအနေ ⁹⁶ ပါ (င) လေဝင်လေထွက်	(ယ) အပူန်အပ္ဘားများအားခြာအနေ (င) စလဝင်စလထွက်
(గా) సిర్మర్శిక్రలోపోల్లారు (కరితియిగా)	(စ) လုပ်စတိကိုင်စက် (အထင့်တူ)
ςι δεβασθήθερι αυτόμο	స్టారా లారా లారా
လိုသက် <u>နေနိုင်</u> လက်သွယ်ရန်လိုမ်မှာ <u>အိန်လိုမ်တော်</u> လေသတ်	အမ်ိုင်း အုပ်စ်မှာ ကျောက်တွ ဘားက မင်းကျစ် ၂၀၀၁

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နှင်လာသသမ္မာများမှ (များများများများများများများများများများ	ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုချက်များရယူခြင်း
ာ၊ လုပ်ငန်းစွင်ကျွန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှည်းရုံအကြံမြရက်	၁။ လုပ်ငန်းခွင်ကျန်းမာရေးနှင့်သေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လူဦး၍အကြံပြုရက်
က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများမိရမ်	(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ
(၈)) လုပ်ငန်းစွဲလေးကိုအမ်ကွေးများ (၈) သောက်သုံးရှေ	(စ) သောက်သုံးရေ
(၀) သန့်စင်စန်းများမြီမြီ	(၈) သန့်စင်ခန်းများ သာန် ရှင်းမျှ ဂြိပါသည် .
(၈) သန့်စပ်မှန်မျှား	(ဂ) သန့်ဝင်ခန်းမျှား (ယ) ဆေးခကြာသန့်ရှင်းရေးဝနှစ်
	(a) anial solution of the second
၂။ လုဝ်ဝန်းစွင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအခပါအကြံမြုရက်	၂။ လုဝ်ငန်းခွင်အလုပ်လုပ်ကိုင်မှုအခြေအနေ့အပေါ် အကြံပြုချက်
(က) ရာညံသံများအရေအခန္	(က) ရာညံသများအရြေအနေမဂ္ဂ်က်က်မ
(စ) အနံ့အသက်/အစိုးအဝွေ့များမာကြ	(၈) အနံအသက်/အစိုးအရ မား မေပြင်မှ
(ဂ) လုပ်ငန်းနှင်အလင်းရောင်	(a) a See Simon Same Simon Sim
(ယ) အမှုန်အမွှားများအခြေအနေ	(n) (vo. 18 vo.
(င) လေဝင်လေထွက်	(c) လေဝင်လေထွက်
၃။ လုပ်ငန်းမွှင် လူမှုထက်ထံရေးအခြေအနေအဝေါ် အကြံပြရက်	၃။ လုပ်ငန်းခွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုရွက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်) <u> </u>
(ခ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)	(၈) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)
၄။ သီးရြားအကြံပြုရက်များ	
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လုပ်သက် ဆက်သွယ်ရန်လိပ်တ မှားကူးကို ဖြစ်သွယ်ရန်	\$65200: 80600 Clonne 2019 2000 2000 2000 2000 2000 2000 2000
ငိုင်သူ အနိုင်ငံသည်။ ကိုက်ကိုက်ကိုက်ကိုက်ကိုက်ကိုက်ကိုက်ကိုက	လုပ်သက် <u>မြစ်က</u> ဆက်သွယ်ရန်လိပ်တ <u>ကြက်လာခို</u>
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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူအချိုးမို့ရာတတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကွမ်ပိမ်ရန်ခွဲမှုအပီအစဉ် (Environmental Management Plan – EMP) ဖေနာပွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်များ၏ လုပ်ငန်းမှင်ထိုင်ရာ အကြံပြုံရွက်များရလူခြင်း	" Myanmar Asia Optical International Co., Ltd. "၏ မှန်ဘီလူအခရိုးမိုးထုတ်လုပ်ခြမ်းလုပ်ငန်းအတွက် ပတ်ဝန်းကျင်မိဖ်နေနဲ့ခွဲမှုအစီအဝဉ် (Environmental Management Plan – EMP) ရေးရဲးခြမ်းနှင့်ပတ်သက်၍ ဝန်တစ်းများ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုဖျက်များရသူမြင်း
ာ။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုရက်	ာ၊ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုရက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းခွင်အကာအကွယ်ပုစ္စည်းများ
(စ) သောက်သုံးရေ	(ခ) သောက်သုံးရေ
(၈) သန်စင်စန်းများ	(ဂ) သန့်စင်ခန်းများ
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ဃ) ဆေးကြောသန့်ရှင်းရေးစနစ်
၂ ၊ လုပ်ငန်းနှင်ထာလုပ်လုပ်လုအားခြားအနေအားမ် အကြံပြုခုက် (က) ရာညံသံမှားအခြေအနေ	မှ လုပ်ငန်းနှင်အလုပ်လုပ်လိုင်မှုအခြေအနေအာဒ အကြံခြဲရက် (က) ရာညံသံရာအခြေအနေ မရှိ (က) ရာညံသံရာအခြေအနေ မရှိ (က) လုပ်ငန်းနှင်အလုပ်လုပ်ငန်းရားင် (က) လုပ်ငန်းနှင်ကြန်ကြင်းရာ (စီအထက်) အနန်အာဒကျားရာအခြေအနေ မရှိ (က) လုပ်ငန်းနှင်ကြန်ကြင်းရာ (စီအထက်) (က) လုပ်ငန်းနှင်ကြန်ကြင်းရာ (စီအထက်) (က) လုပ်ငန်းနှင်ကြန်ကြင်းရာ (စီအိုထက်) (က) လက်အောက်ခန်ထမ်း (စီစိလက်အောက်) ရာ သံရြာအခြည့်ခြုံရက်ရား
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(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ ^{မို႔} ြ	ား လုပ်ငန်းစွင်ကျွန်းမာခရာနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပဋ္ဌည်းများနှင့်စပ်လှုမ်း၍အကြံပြုရက်
(၈) သောက်သုံးရေ	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ ^(ည)
(n) သန့်စင်ခန်းများ	(၈) သောက်သုံးရေ
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်-သို့	(n) သန့်စင်ခန်းများ
	(ယ) ဆွေးကြောသန့်ရှင်းရေးစနစ်
၂။ လုပ်ငန်းနွင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြံပြုရုက်	
(က) ရာညံသံများအခြဲအခန္မါရီ	၂။ လုပ်ဝန်းစွင်အလုပ်လုပ်ကိုဝ်မှုအစခြေအစနအပေါ် အကြံပြုရက်
(က) ရာညသများအမြေအခန္မိုး (ခ) အန်အသက်/အစိုးအဝဋ္ဌ များမိုး	(က) ရာညံသံများအခြေအခန္
(ဂ) လုပ်ငန်းစွင်အလင်းစရာင်	(က) ဆိုညာသျားအမြားခန် (၈) အနံ့အသက်/အစိုးအရွေ့များ
(ဃ) အမှုန်အမွှားများအစြေအစန္မြ ရှိ	(a) and a second a se
(င) လေဝင်လေထွက်	(ယ) အမှုန်အမွှားများအခြေအနေ
	(c) လေဝင်လေထွက်
၃။ လုပ်ငန်းနွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုရုက်	၃။ လုပ်ငန်းရှင် လူမှုဆက်ဆံရေအရေအနေအပေါ် အကြံပြုရက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)	၃။ (ပုံထနားမွာ (ယူ။ကားထနားအများကနားမာ အညံ့မျိုးက ၉) (က) လုပ်ငန်းနှင့်ကြီးကြပ်သူ (ဒီမိအထက်)
(စ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)ေ ော (ဒ ီ	(က) လုပ်နေးခွဲကြေးကြပ်သူ (မေအထဲက) (ခ) လုပ်ဖော်ကိုင်ဗက် (အဆင့်ဘူ) (ခ) လုပ်ဖော်ကိုင်ဗက် (အဆင့်ဘူ)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(ခ) လုပ်ဖောက္(ဒဓထ(အဆင့်တူ)
ଦା သီရြားအကြံပြရတ်များ	(n) လက်အောက်ဝန်ထမ်း (မမလက်အောက်)
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လက်မှတ်	
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ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်ဆိုင်		ား လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပတ္တည်းများနှင့်စင်လျှန်း၏အကြံမြူရက်
ာ၊ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ဖ		၁။ လုပ်ငန်းရွှင်ကျွန်းမာရေးနှင့်သေးအန္တရာယကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လုပ္ထားချ်အကြံပြုရက (က) လုပ်ငန်းရွင်အကာအကွယ်ပစ္စည်းများ
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ		(က) လုပင်နားခွင်အကာအကွယပစ္စည်းများ
(စ) သောက်သုံးရေ		(ခ) သောကသူးရေ
(ဂ) သန့်စင်ခန်းများ		
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	G	(ဃ) ဆေးကြောသန့်ရှင်းရေးစနစ်
၂။ လုဝ်ငန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြ	විශාන	၂။ လုပ်ဝန်းရှစ်အလုပ်လုပ်ကိုစ်မှုအခြေအနေအခပ်၊ အကြံပြုရှက်
	P.	(က) ရာညသများအခြေအခန္မိမ္ပါ
(၈) အနံ့အသက်/အရိုးအငွေ့များ		(a) mimars/m8:mag uni
(၀) လုပ်ငန်းစွင်အလင်းရောင်	<i>A</i>	(a) အနဲအသက်)အမှာအမင်းများ (n) လုပ်ငန်းမွင်အလင်းရောင်
(ပ) အမှုန်အမွှားများအခြေအနေ		(ဃ) အမှုန်အမွှားများအခြေအနေ
(င) လေဝင်လေထွက်) ³	(င) လေဝင်လေထွက်
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၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအရြေအနေအပေါ် အဂြ		၃။ လုပ်ငန်းစွင် လူမှုဆက်ထံရေးအရြေအနေအပေါ် အကြံပြုရက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)	6002Ê:	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)
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్గుర్ బుగ్ 2.క్రిల్	ဆက်သွယ်ရန်လိပ်စာ <i>ဗင်္.လာဒု</i>	လုပ်သက်မက်.၀၁၀ နှံတ်မက်.၀၁၀ နှံက်သွယ်ရန်လိပ်စာမက်.၀၁၀ နှံ

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၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံပြုရက်	၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှုဉ်းရှ်အကြံပြုမျက်
(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ
(ခ) သောက်သုံးရေ	(a) anothing
(ဂ) သန့်စင်ခန်းများ	(၈) သန့်စင်ခန်းများ
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မှ လိုင်ခန့်စုနိုက်လိုင်ပိုအခြေအနေအခမ်းအခြင်းခွက် (က) ရာကိုသံများအခကြေအနေမန် (က) ဆန်အသက်/အစိုးအဝင္ပမူးမန် (စ) အန်အသက်/အစိုးအဝင္မန် (စ) အန်အသက်/အစိုးအဝင်မန် (စ) အနန်အညားများအခကြေအနေမန် (စ) လာဝိအောက်လိုကေ (စ) လုပ်ခောက်ငိုက်ကို (မိအိထာက်)	(၈) လိုင်ငန်းနှင့်အလုပ်လုပ်ကိုင်မှုအားခြဲအားနအားခါ အကြံခြံရက် (၈) ရာညံသံများအားခြဲအားန (၈) ရာညံသံများအားခြဲအားန (၈) ရာညံသံများအားခြဲအားန (၈) ရာညံသံများအားခြဲအားန (၈) ရာညံသောကိုအနီးအားခွဲ ရှား (၈) အနန်းအားကိုအနီးအားခွဲ ရှား (၈) အနန်းအားကိုအနီးအားခွဲ (၈) ရှား (၈) အနန်းအားကိုအနိုးအားချီးအားခြဲအားန (۱) အမှန်အားချားအားခြဲအားန (۱) အမှန်အားချားအားခြဲအားန (۱) အမှန်အားချားအားခြဲအားန (۱) အမှန်အားချားအားခြဲအားန (۱) အမှန်အမှုအားချားအားခြဲအားန (۱) အမှန်အမှုအများအားခြဲအားန (۱) အမှန်အမှုအားချားအားခြဲအားန (۱) အမှန်အားချားအားခြဲအားန (۱) အမှန်အမှုအားချားအားခြဲအားန (۱) အမှန်အမှုအားချားအားခြဲအားခြဲအားချားအားခြဲအားခြဲ (۱) ရှားခြားချားခြားချား (۱) အမှန်အမှုကိုးခြားချားခြားချား (۱) အမှန်အမှုကိုးခြားချားခြားချား (۱) အမှန်အမှုကိုးခြားချား (۱) အမှန်အမှုကိုးခြားချား (۱) အမှန်အမှုကိုးခြား (۱) အမှန်အား (۱) အမှန်အား (۱) အမှန် (۱) အမှန် (۱) အမန်း (۱) အမန်း (۱) အမန်း (۱) အမန်း (۱) အမန်း
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၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လူဦး၍အကြံပြုရက်	၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှည်းရုံအကြံပြုရှက်
(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ
(စ) သောက်သုံးရေ	(a) anothing
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(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်
၂။ လုပ်ငန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအဝပ်၊ အကြံပြုရက်	၂။ လုပ်ဝန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြံပြုရက်
(က) ဆူညံသများအခြေအနေ	(က) ရာသံသများအရေအနေ
(စ) အနံ့အသက်/အနီးအငွေ များ	(စ) အနံအသက်/အစိုးအငွေ မား ေကာင္တိုးမာခုသည်။
(n) လုပ်ငန်းနှင်အလင်းရောင်	ລິດອາຊິດ ເພື່ອການ ເພື່
(ဃ) အမှုန်အမွှားများအခြေအနေ	(ယ) အမွန်အမွှားများအခြေအနေ ကောင်ငံယာ ကယ်
(င) လေဝင်လေထွက်	(c) လေဝင်လေထွက်
၃။ လုပ်ငန်းရှင် လူမှုဆက်ထံရေးအရြေအနေအပေါ် အကြံပြုရက်	၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအရြေအနေအပေါ် အကြံပြုရက်
(က) လုပ်ငန်းနွင်ကြီးကြပ်သူ (စိမိအထက်)	(တ) လုပ်ငန်းခုင်ကြီးတပ်သ (မိမိအထက်) ကောင်း ပါသည်
(စ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)	(ခ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)
(၈) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)မရှိ	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)
ငှ၊ သိရားအကြံပြရက်များ	၄။ သီမြားအကြံပြရတ်များ
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ပတ်ဝန်းကွမ်မံရန့်ခွဲမှုအစီအဝဉ် (Environmental Management Plan – EMP) နေးဆွဲခြင်းနှင့်ပတ်သက်၍	ပတ်ဝန်းကျွင်ပိမ်းရှိခွဲလူအစီလောင့် (Environmental Management Plan – EMP) ရေးရှိခြင်းနှင့်ပတ်သက်၍
ဝန်တမ်းများ၏ လုပ်ခုန်ခွင်ဆိုင်ရာ အကြံပြုချက်များရပျည်း	ဝန်ထမ်းများ၏ လုပ်ငန်းနှင့်ဆိုင်ရာ အကြံပြုဖျက်များရပုံခြင်း
၁။ လုပ်ငန်းစွင်အနားမာဓမ္မနှင့်ဘေးအန္တရာယ်တာကွယ်ရေးပစ္စည်းများနှင့်စပ်လူဉ်းရှိအကြံမြရက် (က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ-မင်္သမို (စ) သောက်သုံးရေ	ခး လုပ်ငန်းနှင်ကျန်းမာရေးနှင့်ဆေးအမ္တရာယ်ကားတွယ်ရေးမန္တည်းများနှင့်စင်လုပ်က်အကြံပြုရက် (က) လုပ်ငန်းနှင်အကာအကွယ်ပစ္စည်းများမော်ကြကြ (၈) သန့်စင်ရန်းများငြင်း(1732) (၈) သန့်စင်ရန်းများငြင်း(1732) (ယ) ဆေးရကြာသန့်ရှင်းရေးနှစ်
။ လုပ်ငန်းမွစ်အလုပ်လုပ်ကိုင်မှုအမြေအမနေအမဒါအကြံပြုရတ်	၂။ လုပ်ငန်းစွဲတေလုပ်လုပ်လိုင်ပိုင်မူအာရြောအနေအာမ်၊ အကြံခြုံရက်
(က) ရာည်သံများအခြေအနေ	(က) ရာညံသိများအခြေအနေ
సా గురుకేళ్లరో గుళ్లుపారురుండావార్షియాకవాలచే వార్రొల్లేప్పారు	ာ၊ လုပ်ငန်းနှင့် လူမှုထက်ဆံရေးအားခြာအနေအာပါ အကြံပြုရက်
(రా.) గురంకేళ్లరోట్రోల్లోను (రోజీయిరాస్)	(က) လုပ်ငန်းနှင့်ကြိုကြင်သူ (မိမိအထက်)
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ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအခိုမရှိမတွတ်လုပ်ခြင်းလုပ်ငန်းအတွက်	" Myanmar Asia Optical International Co., Ltd. " ၏ မုန်ဘီလူးအအိုမှုရှိထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက်
ပတ်ဝန်းကွင်စီမံခန့်ခွဲမှုအစီအဝဉ် (Environmental Management Plan – EMP) နေရာခြင်းနှင့်ပတ်သက်၍	ပတ်ဝန်းကျင်မိမံခန့်ခွဲဖွဲ့အစီအဝဉ် (Environmental Management Plan – EMP) နေးဆွဲခြင်းနှင့်ပတ်သက်၍
ဝန်တမ်များ၏ လုပ်ငန်းနှင့်ဆိုင်ရာ အကြံပြုံမျက်များရယူမြင်း	ဝန်ထစ်မဟုအ၏ လုပ်ငန်းနှင့်ထိုင်ရာ အကြံဖြတ်မှားရသူခြင်း
ာ လုပ်ငန်းနှင်ကြန်းမာခရန်နှင့်အေအာန္တရာယ်ဘာကွယ်ရောမ္မည်များနှင့်စပ်လှည်း၌အကြံ၌ဖျတ်	ခ လုပ်ငန်းနှင်ကျန်မာနေနနှင့်ဆာအနွှေလှယ်ကာကွယ်နေးမည့်သို့မာနှင့်စပိုလှည့်ရှိအကြံခြံရက်
(က) လုပ်ငန်းနှင့်အဘာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းနှင်အကာအကွယ်ယူည်းများ
ννήμα <u>Hla</u> <u>συσ</u> <u>Μα Hla</u> <u>Trivay khin</u> β έτωπεοδοείσημο διατιτής τη ματά τη	nongen Washer man Wash

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ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအဝဉ် (Environmental Management Plan – EMP) ရေးဆွဲမြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုံရက်များရသူမြင်း	ပတ်ဝန်းကျင်စီမံဝန့်ခွဲမှုအစီအဝဉ် (Environmental Management Plan – EMP) နေးဆွဲမြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းနှင့်ဆိုင်ရာ အကြံပြုံရက်များရယူမြင်း
ပနယာများ။ ၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပတ္တာ်းများနှင့်စပ်လှည်းရှိအကြံပြုရက်	ာ၊ လုပ်ငန်းရှင်ကျန်းမားရေးနှင့်ဘေးအန္တရာယ်ကားကွယ်ရေးပစ္စည်းများနှင့်စပ်လူဦးရခံအကြံပြုချက်
	(က) လုပ်ငန်းစွင်အကာအကွယ်ပူည်းများမိုက်များမှုနှင့်လေများများနှင့်လေများများနှင့်လေများများများများများများ
(က) လုပ်ငန်းခွင်အကာအကွယ်မစ္စည်းများမို <i>ထို</i> (စ) သောက်သုံးရေ	(1) (40041803x7)3x7300820147x
(စ) သောကသုံးရေ	(a) 2000 2000
(ဂ) သန့်ဝင်ခန်းများ	(ဂ) သန္န၀ငာနေးများ (ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်
(ယ) ဆေးကြောသန္မရှင်းရေးစနစ်	
။ လုပ်ဝန်းစွင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြံပြုရုက်	၂။ လုဝ်ဝန်းရွှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြံပြုရက်
(က) ఖన్దునుల్లా కార్ట్ కార్ కార్ కార్ కార్ కార్ కార్ కార్ కార	(က) ရာညံသံများအခြေအနေ
(စ) အနံ့အသက်/အစိုးအငွေ့များ	(၈) အနံအသက်/အစိုးအငွေ့များ
(a) who have 39 - 22 - 472 w 2022	(n) လုပ်ငန်းစွင်အလင်းရောင်
(ယ) အမှုန်အမွှားများအခြေအနေ	(ဃ) အမှုန်အမွှားများအခြေအနေ
(c) လေဝင်လေထွက်	(a) 39483978 13336 3368
၃။ လုပ်ငန်းရှင် လူမှုဆက်ဆံရေးအရြေအနေအပေါ် အကြံပြုချက်	ာ၊ လပ်ငန်းစင် လမ္မဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြခက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (ဖိဖိအထက်)	၃။ လုပ်ငန်းခွင်ကြီးကြ ပ်သူ (စီဒိအထက်) (က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (စီဒိအထက်)
(ခ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)	(a) လှမ်းတော်ကိုင်ဖက် (အဆင်တ)
(၈) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(ဂ) လက်အောက်ဝန်ထမ်း (စိမိလက်အောက်) <u>ေကာင်း (၂ ၃) ၃၃</u>
දා න්ලිපතැල්වුගුරාආ	දා න්ලියාවේලිමුරෝදා
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ိ Myanmar Asia Optical International Co., Ltd. ″ ၏ မုန်ဘီလူအချိမရှိဟုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကျင်ပီစံခေါ့နဲ့ခဲ့ပုဆီစီအတွင် (Environmental Management Plan – EMP) ခုနော့နို့ခြင်းနှင့်ပတ်သက်၍ ဝန်ထတ်များ၏ လုပ်ငန်းနှင့်ဆိုင်ရာ အကြိုပျောက်များရှည်ကြီး	* Myanmar Asia Optical International Co., Ltd. * ၏ မှန်ဘီလူးအခိုမှုရှိစတွတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကူ <mark>င်စီပံဝန်နွဲခဲ့ပ</mark> စ်တွေ၌ (Environmental Management Plan – EMP) စနာဆွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းရား၏လုပ်ငန်ချင်ခံတို့ရောက်ခြည်မှုက်ရာမရှိသို့က
၁။ လုပ်ငန်းစွင်အနားမာရေးနှင့်ဘေအာန္တရာသီကာကွယ်ရေးမစ္စည်းများနှင့်စပ်လှည်းရှိအကြီးများကို (က) လုပ်ငန်းစွင်အကာအကွယ်ဖစ္စည်းများ	၁။ လုပ်ငန်းစွင်ကုန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္ညည်များနှင့်စပ်လှူဦးရှိအကြိမ်ခြုတ် (က) လုပ်ငန်းစွင်အကာအကွယ်ဖစ္စည်းများ
၂။ လုပ်ငန်းစွင်အလုပ်လုပ်လိုင်မှုအခြေအနေအခဒ်အကြံ၌ရွက် (က) ရာညံသံမှားအခြေအနေ	၂။ လုပ်ခန့်နှင့်အလုပ်လုပ်ကိုပ်မှုအခြေအနေအခဒ် အကြံမြရက် (က) ရာညံသများအခြေအာန္ (စ) အနံအသက်/အစိုးအရွေ့များအိုနီကသက် မှုကြီးက်ရှိန်းနှင်ငွေ,မရှိပါး
ၣး လုပ်ငန်းနွင် လူမှုထက်ထံရေးအခြေအနေအချိအကြံခြရက် (က) လုပ်ငန်းနွင်ကြီးကြင်သူ (စိစိအထက်)ကြမ်းကြင်ခြ ကြောင်ကြင်းကြင်ပါသည် (စ) လုပ်စော်ကိုင်ဖက် (အဆင့်တူ)	ခု၊ လုပ်ငန်းနွင် လူနုထက်ထဲရေအခြေအနေအပေါ် အကြံပြုရက် (က) လုပ်ငန်းနွင်ကြန်ကြပ်သူ (စိဖိအထက်)
οι δαθαταρ <u>β</u> ημησίη ποτόμοδ <u>kypet</u> ποτόμοδ <u>kypet</u> που <u>ρ</u> δ <u>kypet</u> μου <u>ρ</u> δ <u>kypet</u> φο <u>φ</u> <u>kype</u> <u>kypet</u> φο <u>φ</u> <u>kypet</u> φο <u>φ</u> <u>kypet</u> <u>kypet</u> φο <u>φ</u> <u>kypet</u> φ <u>φ</u> <u>kypet</u> φο <u>φ</u> <u>kypet</u> φ <u>φ</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>kypet</u> <u>k</u>	φι στη πατα τη

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ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူအခရိုးမိုးထွတ်ကုပ်ခြင်းလုပ်ငန်းအတွက်	ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအချိန်ရှိထုတ်လုပ်ခြင်းလုပ်ငန်းအဝွေကိ
ယာ်ငန်းကျင်မီစံနေနဲ့မှုအတောင် (Environmental Management Plan – ENP) ခရားခဲ့ခြင်းနှင့်ပတ်သက်၍	ယင်ဝန်းကူင်မိဖ်နေဦးမှုအမီအဝဉ် (Environmental Management Plan – EMP) နေရာခွဲခြင်းနှင့်ပင်ာသက်၍
ဝန်ထမ်းမှုအဆိုတဲ့ နောင်ချင်းခဲ့ခြင်းချားကြီးချားကြီးချက်များချက္ကြောင့်	ဝန်ယမ်းရား၏ လုပ်ငန်းနှင့်တိုင်ရာ အကြံပြုရက်ရှားရေသူမျှောင်း
ဘ လုပ်ငန်းခွင်တွန်မဟချေးနှင့်ဘေးအန္တရာယီတာကွယ်ရေးပဋ္ဌင်းများမှင့်စင်လှည့်ရှိအကြိပ်မြတ်	အ ဟိုင်နီးစွင့်အနီးနောင်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပဋ္ဌင်ာများ	(က) ဘန်စင်ခန်းရား
(ဆ) ဆေးကြားဆန္စူးကျဖစ္ေ ၂။ လုဝ်နမ်းရွာအလုပ်လုဝ်ကိုဝ်ဖူအာရြအာနေအာမ၊ အကြာခြုရက် (က) ရည္သားများအစင္မေျား	၂။ လုပ်ခန်းစွင်အလုပ်လုပ်ကိုင်မှုအာရြေအနေအခဒ် အကြံမှုရက် (က) ထုည်သံများအာရြအာနေ
(ర) శారితరారియ్లా సా గురింక్ స్పెటియారుతుండావింద్రోవింక వించి చెయ్రొపైట్లాను (గా) సురీంక్ స్టోట్రార్ పై (కిఠిపారుగా)	၃။ လုပ်ငန်းနှင့် လူမှုလက်ထဲၾအေရြအနေအခဒ်၊ အကြံပြုဖူက် (က) လုပ်ငန်းနှင့်ကြိန်ကြင်သူ (ဝိဒိအထက်)ကိမိန် အိုးနီ
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Yangon, Myanmar	Yangen, Myanmar
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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူအာရိုးမို့ရာတတ်လုပ်ခြင်းလုပ်ငန်းအတွက်	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအခိုးရီရာတွတ်လုပ်ခြင်းလုပ်ငန်းအတွက်
ပတ်ဝန်းကွင်စီမံဝန်ဦမှုအဖီအစဉ် (Environmental Management Plan – EMP) ဝနေးရှိခြင်းနှင့်ပတ်သက်၍	ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအဝဉ် (Environmental Management Plan – EMP) ရေးရာံမြင်းနှင့်ပတ်သက်၍
ဝန်ထမ်းမှား၏ လုပ်ငန်းနှင့်ထိုင်ရာ အကြံပြုချက်မှားရလူခြင်း	ဝန်ထမ်းမှား၏ လုပ်ငန်းနှင့်ထိုင်ရာ အကြံပြုံမျက်မှားရယူဗြင်း
၁။ လုပ်ငန်းနှင့်တနန်းမားရေးနှင့်သေးအန္တရာယ်တာကွယ်ရေးမစ္စည်းများမှင့်စစ်လူဦးရှိအကြံခြုံရက် (က) လုပ်ငန်းစွင်အကာအကွယ်မစ္စည်းများ ^{ဆုုကြ} င်္၊ <u>ဆက်က်ကား ရှိပြောင်ရား ၁ အက်ကြား ၁ ဖြင့်လ</u> (စ) သောက်သုံးရေ (၈) သန့်စင်ရန်းများ (၈) သန့်စင်ရန်းများ (ဃ) ဆောက္ကြောသန့်ရှင်းရေးစနစ်	အ လုပ်ငန်းနှင့်အနန်းမားရေးနှင့်ဆေးဆန္တရာယ်ဘာကွယ်ရေးမည့်များနှင့်စင်လုန်းရှိအကြိမ်ရက် (က) လုင်ငန်းနှင့်အဘာအတွယ်စည်းများ ျား ကြိုင် ၊ စာက အဲအဲ၊ ကြိုအင်း ရဲ ၊ ကြိုက္ကရှာ ၊ ဖြံရှာ (၈) သန့်စင်ဝန်းများ ကြိုင်သာ (၈) သန့်စင်ဝန်းများ ကြိမ်သည် ရဲ့ ၊ စာကကာ မှ ရဲ ၊ ကို ရာ အန် ကြိုင် ကြိုင် ကြိုင် ကြိုင် ကြိုင် ကြိုင် (ယ) ဆေးကြောသန့်ရှင်းရေးနှင့် ကောက်ပြီးဖြင့် ဖြစ်
၂။ လုပ်ငန်းနှင့်အလုပ်လုပ်ကိုင်မှုအမြေအနေအခဒ် အကြံမြရက် (က) ရည်သံများအခြေအခန္ (ခ) အန်အသက်/အစိုးအခဋ္ဌ များ	(జ) యాట్రెంక్ స్టోసార్ల స్టోసార్ల స్టోస్ స్ట్రి స్ స్ట్రి స్ట్రి స్ట్రి స్ట్రి స్ట్రి స్ట్రి స్ట్రి స్ స్ట్రి స్ట్రి స్ట్రి స్ట్రి స్ స్ట్రి స్ట్రి స్ట్రి స్ట్రి స్ట్రి స్ట్రి స్ట్రి స్ట్రి
၃။ လုပ်ငန်းနွင့် လူမှုသက်ထဲရေးအခြေအနေအပေါ် အကြံပြုရက်	၃။ လုပ်ငန်းနှင့် လူမှုထက်ဆံရေးအခြေအနေအမဒ်အကြံပြီးရက်
(က) လုပ်ငန်းနွင့်ကြီးကြပ်သူ (မိဒိဆသက်)	(က) လုပ်ငန်းနှင့်ကြိုကြပ်သူ (ဒီအထက်)
nosyos <u>Hum</u> <u>μομη</u> <u>μομη</u> <u>α</u> muzi <u>Hum Klait (i</u> <u>3</u> β ξάσσιβοδοφαιρό <u>DIAB (\$ 1, 22000</u>) β ξάσσιβοδοφαιρό <u>DIAB (\$ 1, 22000</u>) γξιβόδ <u>92, 4500557101</u> γξιβόδ <u>93, 4500557101</u> ανδοχυδη ξ λδοσ <u>Milanman Assapp</u> ical	201 222739 160-189 160-189 160-199 16

Green Myanmar Environmental Services Co., Ltd No.115, Kanaung Min Thar Gyi Pood, Industrial Con, Ul Haing Thar Yar Industrial City, Yang Yi Pi	Green Myanmar Environmental Services Co., Ltd No.115, Kanaung Min Thar Gyi Road, Industrial Zene (1), Hlaing Thar Yar Industrial City, Yang Myannar Tet: 09 897 978 296, 09-3081451 E-mail: <u>emecompany@pmail.com</u> , info@gmes-mm.com
" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအခိုမှုရှိစုလုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကွမ်မိမရှိခွဲမှာဆိုအစဉ် (Environmental Management Plan – EMP) ရေးဆွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြာမျက်ရှားရသူမြင်း	ိ Myanmar Asia Optical International Co., Ltd. ″၏ မှန်ဘီလူးအချီးရှိမှာဝတ်လုမ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းတွန်ခွန်ခွန်ခဲ့စစ်ခြင့် (Environmental Management Plan – EMP) နေရာရှိခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုန်ထန်းခွင်ဆိုသို့တွန်ကို ကြေးချင်းကြားကို ကြောကြောက် ကြောက်မှုကျောက်ကြောင့်
အ လုပ်ငန်းစွင်အနားမာခေနနှင့်ဆေးဆန္တရာယ်ကာကွယ်ရေးမစ္စည်းများနှင့်စပ်လှည့်၍အတြံမြရတ် (က) လုပ်ငန်းစွင်အကာအကွယ်မစ္စည်းများ (စ) ဆောက်သုံးရေရိုက်.သေဘၾကျစ်နို့ သဘုရေးကို ရေသဘက်ပါတက္သာ (၈) သန့်စင်ရန်းများရိုက်.သေဘၾကျစ်နို့ သဘုရေးကို တက်သိုး (ဃ) ဆေးရကြာသန့်ရှင်းရေးစနစ်ရိုက်၊ ထက်သိုး	အ လုပ်ငန်းစွင်အနားမာရေနှင့်အောအန္တလုပ်ဘာကွယ်ရေးမှုင့့ည်းရားနှင့်စင်လှည်းရှိအကြံမြဲရက် (က) လုပ်ငန်းစွင်အဘာအကွယ်မုတ္ထားမှာ
(က) ရာညံသိများအခြေအနေ ဆောင်သို့များက အပ္ပါက ဟို. (စ) အန်အသက်/အစိုးအခြေအနေ အိုက်ကြီးဆိုတာက ကို ကိုကြီးဆိုတာက ကို ကိုက်က ကို ကိုက်ကြီး (၈) လုပ်ငန်းနှင့်အလင်းစရာင် အိုက်ကြီး (၀) အသူန်အမွှားများအခြေအနေ ကောင်းပါတာသိုး (င) စလဝင်လေထွက်	 (m) ないないないないない (m) ないないないない (m) ないないない (m) ないないないない (m) ないないない (m) ないないないない (m) ないないないない (m) ないないないない (m) ないないないない (m) ないないないないないないないないないないないないないないないないないないない
ားလုပ်ငန်းနှင့် လူမှုထက်ဆဲဆောအခြေအာနအာဒါ အကြံပြရက် (က) လုပ်ငန်းနှင့်ကြိုက်ပြံသူ (ဒီမိအထက်)	၃။ လုပ်ငန်းနှင့် လူမှုထက်ထဲရေအခြေအနေအခေါ် အကြံပြရက် (က) လုပ်ငန်းနှင့်ကြီးကြပ်သူ (ဖိဖိအထက်)နာ <i>ယင် ကေဆင်င့်</i> (စ) လုပ်တော်ကိုင်ဖက် (အထင့်တူ)
လက်မှတ် ြိုန်း ဆမည် စာကူး Wiskaz ဆမည် စာဂျီးဆွန် နိုင်ငံသားစိတ်ရောအမှတ် ေ/အဆုန်းရှိင်း).ရင္နနစ္စာ နိုင်ငံသားစိတ်ရောအမှတ် ေ/အဆုန်းရှိင်း).ရင္နနစ္စာ လုစ်သက်	ο αθβασθήθηθούρο

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Yangon, Myanmar Tel: 09 897 978 296, 09-5081451 E-mail: gmescompany@gmail.com, info@gmes-mm.com	Yangon, Myanmar Tel: 09 897 978 296, 09-5081451 E-mail: <u>gmescompany@gmail.com, info@gmes-mm.com</u>
ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအမျိုးမို့ရာထုတ်လုပ်ခြင်းလုပ်ဝန်းအတွက် ပတ်ဝန်းကျင်စိမ်နေဖွဲ့မူအစီအဝင် (Environmental Management Plan – EMP) ခေုချင်ခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းနှင့်ဆိုင်ရာ အကြံပြုချက်များရလုမ်ငြင်း	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလုအချိုးရှိမှုလုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းက ွင်မီဝန်ခွဲပညာအုပ် (Environmental Management Plan – EMP) ရေးရှိခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းခွဲတွေမီးရာရှိသည့် စိုးရေးမိုးသည့် စိုးရေးမိုးသည့် ကျောက်ချားရှိချက်များရည်ခြင်း
ာ။ လုပ်ငန်းစွင်ကျန်းမာခရာနှင့်ဘေးအန္တရာယ်ကာကွယ်ခုရာပစ္စည်းများနှင့်စပ်လှူဦး၍အကြံပြုရှက်	၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကွာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုရက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းခွင်အကာအတွယ်ပစ္စည်းများ ကို အသည် ၂ သူ သူ ၂ သူ ၂ သူ ၂ သူ ၂ သူ ၂ သူ ၂ သူ
(စ) သောက်သုံးရေ	(စ) သောက်သုံးရေ ဘိုဖ်ဆီကြီးဘော ရေ ၊ စရဘင်္န
(n) who satisfy the mark of the start of the	(က) သန့်စင်နေးများ
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ယ) ဆေးကြောသန္မရှင်းရေးစနစမိုင်ငံနိုင်ငံကို ဘိုင်ငံနောင်နိုင်ငံနောင်နိုင်ငံနောင်ကျော်နိုင်ငံရေးစနစ်
၂။ လုပ်ဝန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ်အကြံပြုရက်	၂။ လုပ်ငန်းနှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအခေါ် အကြံပြုရက်
	(က) ထုည်သများအခြားနေဆိုပြင်) ဖြင့်မရှိမ် ပြည်နှင့် (ရှိနှင့်) ကြောက်ဆိုစေခြီးဆေးရာပ်သည်။ (က)
(က) ဆည်သံများအခြေအနေ	(ခ) အနံ့အသက်/အနီးအငွေ့များမရှိပြာပြ
(ဂ) လုပ်ငန်းစွင်အလင်းရောင်	(၈) လုပ်ငန်းစွင်အလင်းရောင်မြဲကေတစားခြုံဖြိုပါဝဘည်။
(ယ) အမန်အမားများအခြေအနေ	(ဃ) အမှုန်အမွှားများအခြေအနေစမြိုးပါ
(c) လေဝင်လေထွက်	ുട്ടെപ്പുറ്റാണ് പോട്ടും പ്രപുദ്ധം പ്രപ്പോണ്ട് പ്രപ്പോട്ടും
	၃။ လုပ်ငန်းခွင် လူမှုထက်ထဲရေးအခြေအနေအပေါ် အကြံပြုရှက်
၃။ လုပ်ငန်းနှင့်ကြိုးကြင်သူ (စီမိအထက်) (က) လုပ်ငန်းနှင့်ကြိုးကြင်သူ (စီမိအထက်)	(ယ) ဟ်ဂွင်ဗုံးစိုင်ယူမယ်ကရေးအမြေအာဗ်အရေးအကြေမျိုက (ယ) ဟိုဂွင်မှုးစိုင့် ဟိုမှုကယာကရေးအမြေအာဗ်အခရာအခြေမှုက် ကိုမ်ကြောက်ကြောက် ကျွန်းကြောက်ကြောက် ကျွန်းကျွန်းကျွန်
(က) လုပ်အောကိုင်ဖက် (အဆင့်တူ)	(၈) ပုပ်မော်နိုင်များသူ (စာသက္က) ကို
(စ) လုပ်ဖော်ကိုင်စက် (အဆင့်တို)	(၈) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)
(റ) സ്നാഭമാനാര്യയം: (ഗൈനമോനാ)	၄။ သီးရားအကြံပြရက်များ
၄။ သီးမြားအကြံပြုချက်များ	a alasanan alasan
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" Myanmar Asia Optical International Co., Ltd. " ၏ နန်ဘီလူအချိန်မိုထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းတွင်ဗီပံခွင့်ခွဲတွင်အနဲ့ (Environmental Management Plan – EMP) ခေ့ဆိုလြင်းနှင့်ပတ်သက်၍ ဝန်တမ်းမှာ၏ လုပ်ငန်းနှင့်ဆိုင်ရာ အကြံမြနုတ်မှာအရာပါ	" Myanmar Asia Optical International Co., Ltd. " ၏ မုန်ဘီလူးအမှိုးမို့မှာထုတ်လုပ်မြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းတွင်မိန်ခွဲနဲ့ခဲ့သစ်အဝဉ် (Environmental Management Plan – EMP) နေရာရှိခြင်းနှင့်ထတ်သက်၍ ဝန်ထမ်မှုအရာ ပူလ်ငန်းခွင့်ဆိုင်ရာ အကြံပြုရက်မှားရပွဲမြင်း
ခ လုပ်ခန်းနှင့်ကျန်းမာရေးနှင့်သေးဆန္တကုယ်ကာကွယ်ရေးမာ့တို့ကြားမှနင့်စလိုလှိုးရှိအကြံပြီးရက် (က) လုဝ်ငန်းနွင်အကာအကွယ်မစွည်းများ အဲဒီကို ကာက (စ) သွေးဝင်နန်းများ ေသာက် ငြေ္ခသင့် (လ) ခန့်စင်နန်းများ ေသာက် ကြေးနှင့် ကာက် (ယ) ဆွေးခက္ကြာသန့်ရှင်းခရာစနစ် ေကာင်ကြေးနှင့် ကာက်	ဘ လုပ်ငန်းနှင့်တူန်းမာခေနနှင့်သေးဆန္တရာယ်ကာကွယ်ရေမာ့စွည်းမွားနှင့်စင်လှည်းရှိအကြံမြရက် (က) လုင်ငန်းနှင့်အကာအတွယ်ပစ္စည်းမှာ ေကြီးကားကို ဘီညိုးမြကယ် (စ) စသက်သုံးရေ
၂ လုပ်ခန်းစွင်အလုပ်လုပ်လိုင်မှုအာခြေအာနေအာဒါအကြံပြဲရက် (က) ရာညံသံမှားအာခြေအာန သေ ။ ဆ ။ ဆ ။ ဆ ။ ဆ ။ သေ ။ သေ ။ (ခ) အန်အသက်အနီးအခွင့် မှား သိေးက ငြီး 22 : (ခ) တပ်ခန်းစွင်အလင်းရောင် ကို ၊ ကြောက် ရွှဲ ရွှိပါ ကြက် (ယ) အမွန်အခွားများအခြေအခန မိုက် 22 : (စ) တပင်ခေလထွက် ပြင် - CBN.	၂ လုဝ်ဝန်မှစ်အလုပ်လုပ်ကိုဝ်မှုအားရြာအနေအာပါ အကြံခြဲရက် (က) ရာညံသံရာအားရြအာနေ ကိုက်ကြန် - (၈) ကုပ်ငန်းစွစ်အလင်းရောင် ကြောက်ကို ရှိကက် (၈) လုပ်ငန်းစွစ်အလင်းရောင် ကြောက်ကို ရှိကက် (ယ) အမှန်အဖွားရာအားရြအားနေ (၄) စလဝဒ်စလထွက်မြိုင်သက် ကြီးရွက်ကားကျင်ကောင်းတက်
నా గురింహ్యీర్ గ్రాథానికి సాహాంత్రి సాహాంత్ర సాహాంత్రి సాహాంత్రి సాహాంత్రి సాహాంత్రి సాహాంత్రి సాహాంత్రి సాహాంత్ర సాహాంత్రి సాహాంత్ర సాహాంత్ర సాహాంర్ర సాహాం సాహారార్ర సాహాంత్ర సాహాంత్ర సాహాంత్ర సాహాంత్ర సాహాంత్ర సాహాంర్ర సాహాంరార్ర సాహాంర్ర సాహాంర్ర సాహాంర్ర సాహాంర్ర సా సాహాంర్ర సాహాంత్ర సాహాంత్ర సాహాంత్ర సాహాంర్ర సాహాంర్ర సాహాంర్ర సాహాంర్ర సాహాంర్ర సాహాంర్ర సాహాంర్ర సాహాంర్ర సాహాం సాహారార	ခု လုပ်ငန်းနှင့် လူမှုထက်ယံရေးအခြေအနေအခဒ် အကြံပြုရက် (တ) လုပ်ငန်းနှင့်ကြီးကြင်သူ (ဒီဒိအထက်) - ဒီနိသိန် ² က်ကြင်
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ουδίμοδ	సరిశార <u>110</u> ఇంట్ర <u>1104 Thea</u> 00 కరిపూటిందంభావార <u>12/2793 కి. 123899</u> భటవులే 29: 4512 [550] భటవులే 29: 4512 [550] భటవులే 29: 4512 [552]

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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအအိမ္မရိတွေထဲလုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကျင်စိမ်စန့်ခွဲမှုအစီအစဉ် (Environmental Management Plan – EMP) ရေးဆွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းရား၏ လုပ်ငန်းနှင့်တိုင်ရာ အကြံပြုံမျက်များရပူခြင်း	Tel: 09 897 978 296, 09-5081451 E-mail: <u>gmescompany@gmail.com, info@gmes-mm.com</u> " Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူအဆိုမှုရှိမှာလုတ်လုပ်ခြင်းလုင်ငန်းအတွက် ပတ်ဝန်းတူပိစ်ပံစန့်ရွှဲဖွဲ့အစီအဝဉ် (Environmental Management Plan – EMP) စုဆုတို့ခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းစွင်လိုင်ရာ အကြံခြုံမျက်များရလူခြင်း
ာ၊ လုပ်ငန်းနှင့်တနားမားရေးနှင့်သားအန္တရာသိတာကွယ်ရေးမင္ကည်မရှားနှင့်စပ်လွှင်းရှိအကြံမြဲရက် (က) လုပ်ငန်းနှင့်အကာအကွယ်ပစ္စည်များ	ခ၊ လုပ်ခန့်မွှင်ကျန်းမာချေးနှင့်တာအနေတယ်ကာကွယ်ရေးမဂ္ဂည်းများနှင့်စင်ကျွမ်းခဲ့အကြီးများကိ (က) လုပ်ခန့်မွင်အကာအကွယ်ဖစ္စည်းများ
(၈) လုပ်ငန်းနှင့်အလမ်းရတ <u>် လို ကောက် ရန်နိုက်ကမ်</u> (ယ) အပူန်ဆွားများအခြေအနေ <u>မားကြ</u> (င) လေဝင်လေထွက် မြိုက်ကြီး က လုပ်ငန်းနှင့်ကြီးကျင်သူ (စိမိအထက်) <i>စားအရမ်မြို့</i> (က) လုပ်နေးနှင့်ကြီးကျင်သူ (စိမိအထက်) <i>စားအရမ်မြို့</i> (၀) လုပ်စောက်ဝန်ထမ်း (ဖိမိလက်အောက်)	(గ) భరీంక్ష్మీరోవిందర్ ::
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ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူအာမျိုးမျိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအာတွက် ပတ်ဝန်းကူင်စီမံခန့်ခွဲမှုအတီအင်၌ (Environmental Management Plan – EMP) နေအုပ်ခြင်းနှင့်ပတ်သက်၍ ဝန်ထင်များ၏ လုပ်ငန်းနှင့်တိုင်ခု အကြံပြုဖျက်များရလူခြင်း	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအမှိုးမိုးတုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကွမ်ဝိမိခန့်ခွဲမှအစီအတွေ (Environmental Management Plan – EMP) ခေုဆွဲခြင်းမှင့်ပတ်သက်၍ ဝန်ထစ်မဟူအ၏ လုပ်ခန့်ခွဲတို့သိုင်သုံးအပြာမျှာများမှုလူမြင်း
ာ။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘားအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံပြုရက်	၁။ လုပ်ငန်းခွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှုဦး၍အကြံပြုချက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းရှင်အကာအကွယ်ပစ္စည်းများ
(ခ) သောက်သုံးရေ	(၈) သောက်သုံးရေ
(၈) သန်စင်နန်းများ	(၀) သန့်ဝင်ခန်းများ
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(၈) အားကြောသန့်ရှင်းရေးစနစ်
၂ လုပ်ငန်းနှင့်အလုပ်လုပ်လိုင်မှုအခြေအနေအခါ အကြံမှုက် (က) ရာညံသံမှားအခြေအနေ	(လ) လိုင်လန်မှန်လာလုပ်လိုင်ပိုအားနေအာမ် အကြံမြက် (က) ရာညံသံများအခြေအနေ
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ာ။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုရှက်	၁။ လုပ်ငန်းစွင်ကျွန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်းရှိအကြံပြုချက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများမ ^{လပို}	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများမြေမြေ
(စ) သောက်သုံးရေ	(စ) သောက်သုံးရေ
(ဂ) သန့်စင်ခန်းများ	(0) 2260225 222 222 22
(ဃ) ဆေးကြောသန့်ရှင်းရေးစနစ်ကိုကို	(ဂ) ဆားစကြာသန့်ရှင်းရေးစနစ်
၂။ လုဝ်ဝန်းရွှင်အလုဝ်လုဝ်ကိုင်မှုအခြေအနေအခပါ အကြံပြုရက်	၂။ လုဝ်ဝန်းရှင်အလုဝ်လုပ်ကိုင်မှုအခြေအနေအခပါအကြံမြရက်
(က) ရာညံသများအခြေအနေ	(က) ရာညီသံများအစြဲအစန္
(စ) အနွံအသက်/အနီးအငွေ့များ	(စ) အနံအသက်/အနီးအငွေ့များဃဠကာဥပါ
(ဂ) လုပ်ငန်းစွင်အလင်းရောင်	(ဂ) လုပ်ငန်းစွင်အလင်းရောင်
(ယ) အမှန်အမွှားများအခြေအနေ	(ယ) အမှုန်အမွှားများအခြေအနေ ^{[2} .
(င) လေဝင်လေထွက်	(င) လေဝင်လေထွက်
၃။ လုပ်ငန်းစွင် လူမှုဆက်ထံရေးအရေးအခေါ် အကြံပြုရှက်	၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုရက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)ေကာင်	(က) လုပ်ငန်းနွင်ကြီးကြပ်သူ (မိမိအထက်)
(ခ) လုပ်စော်ကိုင်ဖက် (အဆင့်တူ)	(a) గుర్తీతోగ్రార్ (పాటర్లాల్)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်) ^{၃၂၆}
ငှာ သိမြားအကြံမြရတ်များ 	၄။ သိမြာအကြံပြရတ်များ
	ονδμοδ

Control of the second	Green Myanmac Environmental Services Co., Ltd No.115, Kanaung Min Thar Gyi Road, Industrial Zone (1), Haing Thar Yar Industrial City, Yengon, Wymara Te: 09.897 978 296, 09-3081451 E-mail: gmescompany@gmail.com, info@gmes-mm.com Myanmar Asia Optical International Co., Ltd. " of \$\$\$\$ \$\$\$\$ \$\$\$\$ \$\$\$\$ \$\$\$\$\$ \$\$\$\$\$ \$\$\$\$ \$\$\$\$
၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုရုက်	၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်သေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှုဦး၍အကြံပြုချက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ	(a) a far far far far far far far far far f
(စ) သောက်သုံးရေ	1) preschous
(စ) သေးကနားရေး	(a) 228 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်
၂။ လုပ်ငန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအခနအပေါ် အကြံပြုရက်	၂။ လုပ်ဝန်းရွှင်အလုဝ်လုဝ်ကိုင်မှုအခြေအနေအခေါ် အကြံမြူရုတ်
(က) ဆူညံသံများအခြေအနေ	Enter Emperilly we
(၈) အနံအသက်/အစိုးအငွေ့များ	6. 9 mm 8° UI Mu
(ဂ) လုပ်ငန်းစွင်အလင်းရောင်	1. 566 C G G G G G G G G G G G G G G G G G G
(ဃ) အမှန်အမွှားများအခြေအနေ	6m Br O May
(င) လေဝင်လေထွက်	(W) 2024 232 234 234 234 234 234 234 234 234 2
၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအရြေအနေအပေါ် အကြံပြုရက်	၃။ လုပ်ငန်းနွင် လူမှုဆက်ထဲရေးအခြေအနေအခပ် အကြံပြုရှက်
(က) လုပ်ငန်းစွင်ကြီးကြပ်သူ (မိမိအထက်)	
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(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(စ) လုပ်အောက်လော (အဆင့်တို)
ල ක්ලියාල්ටුල්දාර්ආ 	දා න්ලාකල්ලිල්දාන්ත
ουδού	

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၁။ လုပ်ငန်းနှင့်ကျန်းမားနေနေနန် အရာမ်ကြေးကျန်းနှင့်လိုင်းရှိအခြေမျက် (က) လုင်ငန်းနှင့်အဘာအတွယ်လူည်များ အရန်မာ (စ) စသက်လုံးရေ-မာခင်နဲ့ ရှင်း ပါ ေဆနံ တု ကန်ဖြင်း၊ - ေရ လိုတောကာရ ရှိလောင်မတွေ (စောင်မဘ (၀) စဆားကြာသန့်ရှင်းရေစနန် အရာမြင်း (ယ) စဆားကြာသန့်ရှင်းရေစနန် အရာမြင်း	ငနီတမ်းများ၏ လုပ်ငန်းခွင်ဆုံးတွေ အကြံမြက်နားရသူမြင်း အ လုပ်ငန်းခွင်အားအကွယ်ရွေးမနေသောကွယ်ကွယ်ရမှာဖွည့်များနှင့်စပိုလူဦးရအကြံမြရက် (က) လုပ်ငန်းခွင်အားအကွယ်ရွေးမနေသော ရန်ကြီး (၂.೫၆). အသင်္နီ ဖြစ်စြင်, ပေါ်ပါကြာ- (၈) သန်စင်နန်းရား
 ၂. လုပ်ငန်းနှင့်လာလုပ်လုပ်လုံးအသင့်အသင့်အတင်ရှိအတင်ရှိအခုန်လာ အကြားချင်သည် ကျောင်ချင်ခဲ့ အကြားချင်သည် ကျောင်ချင်ခဲ့ အကြားချင်ခဲ့ အကျောင်ခဲ့ အကျောင်အကျားခဲ့ အကျောင်ခဲ့ အကျောင်ခဲ့ အကျောင်ခဲ့ အကျောင်ခဲ့ အကျောင်ခဲ့ အကျောင်ခဲ့ အကျောင်ခဲ့ အကျားခ 	မှ လုပ်ငန်းနှင့်အလုပ်လုပ်ကိုင်မှုအခြေအနေအာဒ် အကြံခြံရက် (၈) ရာရာသံရာအခြေအနေ စက်သွားပေါ် ဆွေခြေခြက် (၈) လုပ်ငန်းနှင့်အလင်းရောင် ရှိသူပြီသွားပြီးချားခြင်း (၈) လုပ်ငန်းနှင့်အလင်းရောင် ရှိသူပြီသွားပြီးဆာကို (၈) လုပ်ငန်းနှင့်အကွက်သံရေအာန်အာဒေ အကြံခြက် (၈) လုပ်ငန်းနှင့်ကြေကြင်းရာ (စီစီအထက်) အခြင်း အကြံခြက် (၈) လုပ်ငန်းနှင့်ကြေကြင်းရာ (စီစီအထက်) အခြင်း အကြင်ခြက် (၈) လုပ်နော်ကိုင်ဖက် (အဆင့်တူ) အခြင်း အကြင်ခြက် (၈) လုပ်အောက်လိန်ထမ်း (စီစီလက်အောက်) "
ດດດັ້ງດາ	CG1 pop Waxker J 1 pop Waxker J 1 pop CG1 pop CG1 pop fields pop Maxker J 1 pop CG1 pop

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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအမှိုးမိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကျင်စိပ်ခန့်ခွဲမှုအစီအဝဉ် (Environmental Management Plan – EMP) နေရာံခြင်းနှင့်ပတ်သက်၍ ဝန်တမ်းများ၏ လုပ်ငန်းနှင့်ဆိုင်ရာ အကြံပြုချက်များရလုံခြင်း	ပတ်ဝန်းကျင်မိမ်ခန့်ခွဲမှုအမီအဝဉ် (Environmental Management Plan – EMP) ခုနေခွဲမြင်းနှင့်ပတ်သက်၍ ဝန်တမ်းများ၏ လုပ်ငန်းရှင်ဆိုင်ရာ အကြံမြူရက်များရယူမြင်း
၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုရက်	ာ၊ လုပ်ငန်းစွစ်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုရက်
(m)	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ <u>⁹ာဘုံးမြှုဘုတ်</u>
(၈) လုပ်ငန်းစိုင်အကာအကွယ်ပစ္စည်းများ (၈) သောက်သုံးရေ	(စ) သောက်သုံးရှ <u>ေ အာရတ်လာ် ရာဆင်က ဖြ</u>
(a) any since	(ဂ) သန်စင်ခန်းများ- 229 ဆိုးငယ် ကို 995 (ပျက်စော အာ အိပ်သာဖျာ:)
(၈) သန့်ဝင်နေများ	(ယ) ဆေးကြောသန့်ရှင်းရေးဝနစ်
	၂။ လုပ်ဝန်းရွှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအခပ် အကြံမြုံရွက်
၂။ လုဝ်ဝန်းစွင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအခပါအကြံပြုရက်	(က) ရာညံသံများအရြေအနေ
(က) ရာညံသံများအစခြဲအစန္	(စ) အနံ့အသက်/အစိုးအငွေ့ များ
(စ) အနံ့အသက်/အစိုးအစင္ များ	(၈) လုပ်ငန်းရွင်အလင်းရောင်
(ກ) ເບີດຊີ້ສອດຮັບສອດຮັບສອດຮັບສອດຮັບສອດຮັບສອດຮັບສອດຮັບສອດຮັບສອດຮັບສອດຮັບສອດຮັບສອດຮັບສອດຮັບສອດຮັບສອດຮັບສອດຮັບສອດຮ (ພ) ສອຊສີສອງສາຊານສອດຮັບສອດສະ	(ယ) အမှုန်အမွှားများအခြေအနေ ^{မှ} ာ(ဘိုးယာ ² ၁၉૨
(ယ) အမှုန်အမွှားများအခြေအနေ	(c) လေဝင်လေထွက်
(င) လေသိုက်သည်	
၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအခမ် အကြံပြုရှက်	၃။ လုပ်ငန်းနွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုရက်
(m) are 26 and 18 march) 600 21 / 20428, eusy	(က) လုပ်ငန်းနှင့်ကြီးကြပ်သူ (ဒိမိအထက်) စကာင်း (ခ်ာရှည်း ရည် ၇)
(a) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)	(စ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ) <u>စီကာ၉်</u> -
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်) <u></u>	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်) <u>စ်ကာဗ</u> ်:
မှ အမြားအလြမြန်သူမ်း	දා කිලිපතුල්වුල්දොතා
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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအဖိုးရှိဖုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းတွင်မိစရန်ခွဲမှုအမီအဝဉ် (Environmental Management Plan – EMP) စနေးနဲ့ခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်များ၏ လုပ်ငန်းနှင့်တိုင်ရာ အကြံ၌ချက်ရားရလူခြင်း	ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးဆရီဗရီတွေဝင်လုပ်ဝြင်းလုပ်ဝန်းအတွတ် ပတ်ဝန်းကွင်ပိပ်ဝန်ခွဲပူအအောင် (Environmental Management Plan – EMP) ဝနော့ခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းမှာ၏ လုပ်ဝန်းနှင့်ကိုင်ရာ အကြံမြရက်မှားရသူခြင်း
ခၢ လုပ်ငန်းစွင်အနားမာခေနနော်သားအန္တရာယ်ကာကွယ်ရေးမရွည်းများနှင့်စပ်ကျွန်းရှိအကြံမြရက် (က) လုပ်ငန်းစွင်အကာအတွယ်ပစ္စည်းများ- ေခ်းအိဂ်င်္ ၊ ပါနစ် (စ) သောက်သုံးရေ	အ လုပ်ငန်းစွင်ကျန်းမာရေနှင့်ဘေးအန္တရာယ်ဘာကွယ်ရေးပန္လည်းမှားနှင့်လေလို့၍အကြံမြရတ် (က) လုပ်ငန်းစွင်အကာအကွယ်ပန္လည်းမှား
(ယ) ဆေးစကြာသန့်ရှင်းရေးစုနှစ်	(ဃ) စစားကြောသန့်ရှင်းရေးစနစ်
(စ) အနိအသက်/အစိုးအဝဋ္ဌ များမိုက္ခ် (ဂ) လုပ်ငန်းနှင့်အလင်းရောင်	(e) ສູ່ສອນກໍ/ສະຊີເສລຊູ ເອະ (ກ) ທຸບົວຊໍ້ຍຸອົດສາວປະເທດອີ (ພ) ສະຍູຂໍ້ສອງກະທາສາວເຫຼີສາວຊ
ကိုမှာမြို့အနေအဆွေအနေအဆိုအခြားမှ အကြို့ရက် ကိုမှာကြီးရှိသို့ကြားသို့ (စိတ်ဆဆရီ) ကိုမ်ကြက်န်း ကိုမ်ကြက်န်း ကိုမ်ကြက်န်းကို ကိုမောက်ကိုမ်ကြက်နောက်ကိုမ်ကြက်နောက်ကိုမ်ကြက်နောက်ကိုမ်ကြက်နောက်ကိုမ်ကြက်နောက်ကိုမ်ကိုမ်ကိုမ်ကို	၃။ လုပ်ငန်းနှင့် လူမှုသက်ထဲရေးအခြေအနေအပေါ် အကြံခြဲရက် (က) လုပ်ငန်းနှင့်ကြီးကြင်သူ (ဒီဒီဆထက်)
(ဂ) လက်အောက်ဝန်ထမ်း (ဒီခီလက်အောက်) ^{Grrry} ြင်း ၄၊ သိမ္မားအကြံမြရက်ရား 	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)မိမာမ်း၊ ၄၊ သိမြာအည်ပြရ က်မျာ
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ာ၊ လုပ်ငန်းခွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရှေ့ပစ္စည်းများနှင့်စုပ်လျဉ်းရှုံအကြံပြုရက်	ာ၊ လုပ်ငန်းစွင်ကျန်းမာခရာနှင့်သားအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်ဝပ်လူဦးရှိအကြံပြုံမျက်
(က) (လိုင်န်းခွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ <u>စပြီးခွင်း စရင်မာ</u> ရှိ
(စ) သောက်သုံးရေ ေ ၅ သက္ရွိ	(၁) ခံသာကသုံးရေ
(ဂ) သန့်စင်ခန်းများဘာရိုင်နှင်း ရေးတို	(၁) သန့်စပ်မန်များ (ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်
(ယ) ဆေးစကြာသန့်ရှင်းရေးစနစ်ဆာသကြာ	
၂။ လုပ်ငန်းစွင်အလုပ်လုပ်ကိုဝ်မှုအခြေအနေအခပ်၊ အကြံပြုရက်	၂။ လုပ်ငန်းစွစ်အလုပ်လုပ်ကိုဝ်မှုအစခြံအနေအပေါ် အကြံပြုရက်
(က) ရာညံသံများအခြေအနေ	(က) ဆူညံသံများအစရြအ ခန္- <u>¹⁰³ 22,5: ယာ် 22,23</u>
(စ) အနံ့အသက်/အစိုးအ၀ွေ့များမိမြ	(စ) အနံ့အသက်/အစိုးအငွေ့ များမိုက်
(ဂ) လုပ်ငန်းခွင်အလင်းရောင်	(ဂ) လုပ်ငန်းရှင်အလင်းရောင်
(ဃ) အမှုန်အမွှားများအခြေအနေ	(ဃ) အနန်အမွှားများအခြေအနေ ^{မွ} ခ်
(င) လေဝင်လေထွက်	(c) လေဝင်လေထွက်
၃။ လုပ်ငန်းခွင် လူမှုထက်ထံရေးအခြေအနေအခေါ် အကြံပြုရက်	၃။ လုပ်ငန်းခွင် လူမှုဆက်ဆံရေးအရေအနေအဖေါ် အကြံပြုရှက်
(က) လုပ်ငန်းစွင်ကြီးကြပ်သူ (မိမိအထက်) <u>ေကာင်</u>	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)
(a) လုပ်တော်ကိုင်ဗက် (အဆင့်တူ) (a) လုပ်တော်ကိုင်ဗက် (အဆင့်တူ)	(စ) လုပ်ဖော်ကိုင်ဖက် (အထင့်တူ)
(၈) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)
	ငှာ သီးရားအကြံပြုရက်များ
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α	αι αρόσμεδαγμυσιαμέρου το
දා දාර්පඩ්හුරි දාදාහාර්ග්යෙන්ගලිනයෙන් කැට්ටුවූරේ (m) දාර්පඩ්හුරිනින්තර්න (පීරිහාගත්තා) කිරීම කරන කරන කරන කරන කරන කරන කරන කරන කරන කරන	ခု လုပ်ငန်းနှင့် လူမှုထာကိယ်မဲရာအားခြံအခန်အခပ် အကြံမြရက် (က) လုပ်ငန်းနှင့်ကြီးကြင်သူ (စီမိအထက်)ကြက်နို <u>ဘင်ကို ကောက်ခြက်</u> (၈) လက်အောက်ဝန်ထမ်း (ဖဲဆင့်တူ)မြောက်မှုနှင့် (၈) လက်အောက်ဝန်ထမ်း (ဖိခိလက်အောက်)
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၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံပြုရက်	ာ၊ လုပ်ငန်းရှင်ကျွန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္တည်းများနှင့်စပ်လျှင်းရှိအကြံမြရက်
(က) လုပ်ငန်းခင်အကာအကယ်ပစ္စည်းများ	ာ လိုင်ငန်းစွင်အကာအကွယ်ပစ္စည်းများမိမိ
(စ) သောက်သုံးရေ ပြီးသူတို့အေး ဆုံးများ အလွန်အကျွံးခြင်း	(၈) သောက်သုံးရေမြသခဲ့
(၇) သန်စင်ခန်းများ	(b) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(။) ဆန္စာဝေနးများ
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၂။ လုပ်ငန်းမွှင်အလုပ်လုပ်ကိုင်မှုအခြေအခုနှအပေါ် အကြံပြုရက်	၂။ လုဝ်ဝန်းစွင်အလုဝ်လုဝ်ကိုဝ်မှုအခြေအနေအပေါ် အကြံပြုရုက်
(က) ဆုညံသံများအဝြေအနေမြဲပြဲ (စ) အန်အသက်/အစိုးအဝွှေ့များမြဲပြဲ	(က) ဆူညံသံများအခြေအနေမိသူ
(ခ) အနုအသက္(အစိုးအခင္ခဲ့များ	(စ) အနံ့အသက်/အစိုးအဝွေ့များမရှိ
(၈) လုပ်ငန်းစွင်အလင်းရောင်	(ဂ) လုပ်ငန်းခွင်အလင်းရောင်
(ယ) အမှန်အမွှားများအခြေအနေ	(ဃ) အမှန်အမွှားများအခြေအနေ
(c) လေဝင်လေထွက်	(c) လေဝင်လေထွက်
၃။ လုပ်ငန်းနွင် လူမှုဆက်ဆံရေးအခြေအနေအခပ် အကြံပြုရက်	၃။ လုပ်ငန်းရှင် လူမှုဆက်ထဲရေးအခြေအနေအခပ် အကြံပြုရက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)စကာာင်း	၃၈ (၃၀၀နာနှင့် (ဥရာသားဝနာအများဝန်အမ် အပြုံရှ က်) (က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)မီက်ဘင်း
(၈) (ပိုပ်နေနဲ့မပြေများသူ (မမအဆက်) (စ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)	(၈) လ်ဇာနေရှင်ယူကြင်္သ (စအေထဲက)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်) စကာဒ် : / ဂ၃ ဥဒိစစာဒ်မ	(ప) గుండాగ్రంతం (తెలిప్రాయా)
82	(റ) സനങ്ങാനാമയല് (ഗ്രൈനങ്ങാന)
၄။ သီမြားအကြံပြုရက်များ	၄။ သီမြားအကြံပြုချက်များ
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Green Myanmar Environmental Services Co., Ltd No.115, Kanaung Min Thar Gyi Road, Industrial Zone (1), Illaing Thar Var Industrial City. Tagor, Myanmar Tet: 00 807 978 296, 09-508 1451 E-mail: genesonpany/2genation.info/genes-mm.com	Green Myanmar Environmental Services Co., Ltd No.115, Kanaung Min Thar Gyi Road, Industrial Zone (1), Illang Thar Yar Industrial City, Yangor, Myanmar Tet: 09 897 982 396, 69-5081431 E-mail: genecompany@gmail.com, info@genes-mm.com
" Myanmar Asia Optical International Co., Ltd. "၏ မှန်ဘီလူးအချိမျိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းတွင်စီမံစန့်ခွဲမှုအဖီအစဉ် (Environmental Management Plan – EMP) ရေစနဲ့ခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းမှာ၏ လုပ်ငန်းနှင့်ထိုင်ရာ အကြံမြို့ရက်မှားရလူခြင်း	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအချိုးမျိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကျင်မိဖဲ့ရန်ခြင်မှာနိုင်ခြင်း ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်ကိုက အကြေးများမျှက်များမျှော်များများကြီး
ခ လုပ်ငန်းနှင်ကျန်းမာချေနှင့်ဘေးအန္တရာယ်ကာကွယ့်ရေးမည့်ငိမ်းမှာနှင့်စင်လှည့်ရှိအကြံပြီးရွက် (က) လုပ်ငန်းနှင်အကာအကွယ်မည်းများ	ာ လုပ်ငန်းနွင်အချိန်မာချေနှင့်ဆားဆန္တရာယ်ကာကွယ်ရေးမနွင့်မ်းမှာနှင့်စလိုလူဦးရှိအကြံခြံရက် (က) လုပ်ငန်းနွင်အကာအကွယ်ပနင့်မ်းမှာ (စ) ဆာကိုသံးရေ
(ဂ) လုပ်ငန်းနှင့် လူမှုလောင်းခောင်သနောခေါ်အနောက်သားကို ရှိသို့လို (ဂ) (ယ) အမွန်အမွှားများအခြေအနေ (င) လောဝင်လော့က် မေးကြောင်း (င) ကြောင့် ရှိသို့လာက်ဆဲရေးအခြေအနေအခေါ် အကြံခြက် ခုနဲ့ လုပ်ငန်းနှင့် လူမှုလက်ဆဲရေးအခြေအနေအခေါ် အကြံခြက်	(၈) လုပ်ငန်းမွင်အလင်းအရာင်
(က) လုပ်ငန်းနုင်ကြီးကြွှဲသူ (မိဒိအထက်)လို (၂၂) (စ) လုပ်စော်ကိုင်ဖက် (အဆင့်တူ)လို (၂၂)လို (၂၂)လို (၂၂) (၈) လက်အောက်ခန်ထမ်း (မိဒိလက်အောက်)လို (၂၂)လို (၂၂) ငှာ သိရြာအတြံပြီရက်များ	(e) လိုမတီကိုမ်က (အဆင့်တွ)
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ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုချက်များရယူခြင်း	န်ထမ်းများ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုရက်များရပူရင်း
၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ့်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၌အကြံပြုရက်	
၁။ လုတ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ	ာ။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်းရှုံအကြံပြုရှက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများမိုပါသခုနှင်
(စ) သောကသူးရေ	(စ) သောက်သုံးရေ
(၈) သန့်စင်ခန်းများ <u>မို(၈)229က်</u>	(ဂ) သန့်စင်ခန်းများ
(ဂ) သန့်စင်ခန်းများမို (ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ် ကိုကောက်ပါသည့်သို
၂။ လုဝ်ဝန်းစွင်အလုဝ်လုဝ်ကိုဝ်မှုအစရြအစန္နအပေါ် အကြံမြရက်	
(က) ရာသံသံများအခြေအနေ	၂။ လုဝ်ဝန်းစွဝ်အလုဝ်လုဝ်ကိုဝ်မှုအခြေအနေအဝေါ် အကြံပြုရက်
(၈) အနံ့အသက်/အစိုးအငွေ့များ	(က) ဆူညံသံများအခြေအခန
	(စ) အနံ့အသက်/အစိုးအငွေ့များ
(ဂ) လုပ်ငန်းခွင်အလင်းရောင်	(ဂ) လုပ်ငန်းရှင်အလင်းရောင်
(ဃ) အမွန်အမွှားများအခြေအနေမိုဘိ	(ယ) အမှုန်အမွှားများအခြေအနေ
(င) လေဝင်လေထွက်	(c) လေဝင်လေထွက်
၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုရက်	
ဆုတ်ကို ကို ကို ကို ကို ကို ကို ကို ကို ကို	၃။ လုပ်ငန်းစွင် လူမှုထက်ထဲရေးအခြေအနေအခပ် အကြံပြုရက်
(i) လိုင်တွေကိုင်တက် (အဆင့်တူ)	(က) လုပ်ငန်းနွင်ကြီးကြပ်သူ (ဒိမိအထက်)
(a) လုပ်ခောက်ဝန်ထမ်း (အိမ်လက်အောက်)	(စ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)
(ဂ) လက်အောက်ဝန်ထမ်း (မေလက်အောက်)	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်) <u>*၁၉၁၆ ၉ ပြ ပါ၁၃၉</u> ໂ
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လုပ်သက် <u>နိုင်ငံသားဝင်ပြောက်ခ</u> ုလ်ရန်လိပ်စာ <u>ASia</u>	సరీపిలో
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Green Myanmar Environmental Services Co., Ltd No.115, Kanaug Min Thar Gyi Road, Industrial Zone (1), Hlaing Thar Yar Industrial City, Yangon, Waynmar Tel: 09 897 978 296, 09-5081451 E-mail: gmescompany/@gmail.com, info/@gmesc-mm.com	
" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအမှိုးမှိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကူင်စီမံနေနဲ့ခွဲမှုအစီအစဉ် (Environmental Management Plan – EMP) မေးဆွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းနှင်ရာ အကြံပြုချက်များမှလုခြင်း	" Myanmar Asia ပတ်ဝန်းကျင်စီပံခန့်
၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်သေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်ဝင်လှည်းရှိအကြံမြဲရက် (က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ	ာ၊ လုပ်ငန်းစွင်ကျန်
(က) လုပင်နမ်ခွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းစွင်အ
(၈) သန့်စင်စန်းများ	(စ) သောက်သုံးရေ
(ဂ) သန္နစ်ငန်းများ	(ဂ) သန့်စင်ခန်းမျာ
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်ှို <i>သီသည်</i>	(ဃ) ဆေးကြောသ
၂။ လုပ်ဝန်းစွင်အလုပ်လုပ်ကိုင်မှုအစခြေအနေအခပါ အကြံပြုရက်	၂။ လုဝ်ငန်းရှင်အက
(က) ရာညသများအခြေအနေ	(က) ဆူညံသံများဒ
(a) mimars (mimars uni	(ခ) အနံ့အသက်/ဒ
(၀) သမီးနီးစင်အသမီးအား နေရေးသက်မှ ရှိ ပိုင်ပည်	(ဂ) လုပ်ငန်းရွင်အ
(ဃ) အမန်အမားမားအခြေအနေ	(ဃ) အမှုန်အမွှားမ
(င) လေဝင်လေထွက်	(င) လေဝင်လေထွ
၃။ လုပ်ငန်းနွင် လူမှုထက်ထံရေအခြေအနေအပေါ် အကြံပြရက် (က) လုပ်ငန်းနွင်ကြီးကြင်သူ (စိမိအထက်)	၃။ လုပ်ငန်းစွင် လူ (က) လုပ်ငန်းစွင်ရ (စ) လုပ်ဖော်ကိုင်ဖ (ဂ) လက်အောက် ၄။ သံရြားအကြံမ
လက်မှတ် <u>Aye</u> ရာထူး <u>J. ?</u> အမည် <u>Aye Tuicax</u> ရာထူး နိုင်ငံသားစီစစ်ရေးအမှတ် <u>၏ ကလင်္ရင် ၃.2၅ ၃</u> ၁၄ ဖုန်းနပါတ် ကာရာရန် <u>8.83,9.809</u> လုဝ်သက် <u>ရာ နိုင်ငံ ၁.၁၅ ၃</u> ၁၄ ဖုန်းနပါတ် ကာရာရန် <u>8.83,9.809</u>	ారాస్తులు ఇంటర్లు క్రికిరివాణిందరింగణ గురిమిగి

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Myanmar Asia Optical International Co., L	td. " ၏ မုန်ဘီလူးအမှိုးမိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက်
	al Management Plan – EMP) ရေးဆွဲခြင်းနှင့် ပတ်သက်၍
ဝန်ထမ်းများ ာ် လုပ်ငန်းခွင်	းသို့ရော အကြံပြုချက်များရယူခြင်း
၊ လုပ်ငန်းခွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာဂ	<u> ဘွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံပြု</u> မျက်
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စ) သောကံသုံးရေ	
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။ လုပ်ဝန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ	အကြံပြုရက်
က) ဆူညံသံများအခြေအနေ	
၈) အနံ့အသက်/အနီးအငွေ့ များ	X
ာ) လုပ်ငန်းစွင်အလင်းရောင်	<u>z</u> ,
ယ) အမှုန်အမွှားများအရြေအနေ	<u> </u>
င) လေဝင်လေထွက်	
၊ လုပ်ငန်းရွင် လူမှုဆက်ဆံရေးအရေအနေအပေ	အကြံမြာကိ
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Green Myanmar Environmental Services Co., Ltd Inits Ranang Min Thar Gyi Road, Industrial Zone (1), Hilang Thar Yar Industrial City, Variangen, Myanmar Tei: 09 897 978 296, 09-5081431 E-mail: genecompary@mail.com, info@gmes-mm.com Myanmar Asia Optical Intermational Co., Ltd. * 61 អ្នកវិសិកម្ពនស្និត្តិច្ចលុសិក្ខខ្លែទីដែលស្ថិទ័ណ្ឌ 2000 (Environmental Management Plan – EMP) ឧទ្ធភ្លេទីដែលស្ថិទ័ណ្ឌ 2000 (Source Source)	Green Myanmar Environmental Services Co., Ltd No.115, Kanamg Min Thar Gyr Road, Industrial Zone (1), Hlaing Thar Yar Industrial City, Yangon, Myanmar Tel: 09 897 978 296, 09-5081451 E-mail: genescompany/genail.com, info@gmes-mm.com * Myanmar Asia Optical International Co., Ltd. * al optical/opticytofficityttityttityttityttityttityttitytti
၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံမြုံရက်	၁။ လုပ်ငန်းရှင်ကျန်းမာရေးနှင့်သေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံပြုချက်
(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ
(e) သောက်သုံးရေ	(စ) သောက်သုံးရေ မေရသမ္
(ဂ) သန့်စင်ခန်းများ	(a) 226 25 200 202 92.
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ယ) ဆေးကြောသန်ရှင်းရေးစနစ်
ု။ လုပ်ဝန်းစွင်အလုပ်လုပ်ကိုဝ်မှုအခြေအနေအပေါ် အကြံပြုရှက်	၂။ လုပ်ငန်းစွင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအဝပ် အကြံပြုရက်
(က) ထုည်သံများအခြေအနေ	(က) ဆူသံသံများအခြေအနေ
(a) အနံအသက်/အစိုးအငွေ့ များ	(စ) အနံအသက်/အနီးအငွေ များ
(n) လုပ်ငန်းစွင်အလင်းရောင်	(ဂ) လုပ်ငန်းနှင်အလင်းရောင်
(ယ) အမွန်အမွှားများအခြေအနေ	(ယ) အမှန်အမွှားများအခြေအနေ
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၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုရက်	၃။ လုပ်ငန်းနွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုရက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (စိမိအထက်)နကာင်
(ခ) လုပ်ဖော်ကိုင်ဖက် (အဆင်တ)	(ခ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်) ကောင်း ဝာ ဃင်	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)ြက်ကိုင်
දා කීලාසංකිවුලාරාආය	දා තිලිපතුල්ටු අතිආා
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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအခိုးခိုးတတ်လုပ်ခြ င်းလုပ်ငန်းအတွက် ပတ်ဝန်းကျင်စီခံစန့်ခွဲမှုအစီအစဉ် (Environmental Management Plan – EMP) ရေးချို့ခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းနှင့်ငံရာ အကြံပြရက်များရသူခြင်း	ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်တီလူးအဖိုးဖိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကွင်စီမံခန့်ခွဲမှုအစီအစဉ် (Environmental Management Plan – EMP) ခုေဆွဲခြင်းနှင့်ပတ်သက်၍ ဝန်သတ်မဟာ၏ လုပ်ငန်းနှင့်ထိုင်ရာ အကြံမှုချက်မှာရာလုပ်ခြင်း
ာ။ လုပ်ငန်းခွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုချက်	၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှူဦး၍အကြံပြုရှက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ	(m) ash Estaman Surger and B. B. Sol and
(e) earon size - 20 8 or / eq. 22 8	(a) emospice out fr aci. Of . (of sof .)
(n) 20 20 20 20 20 20 20 20 20 20 20 20 20	(၀) သန့်စင်ခန်းများ မြေလောဝဘ် မရှိပါ သည်
(ဃ) ဆေးကြောသန့်ရှင်းရေးဝနစ်ငှ	(ပ) ဆေးကြောသန့်ရှင်းရေးစနစ်
၂။ လုပ်ငန်းစွင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအခမ် အကြံမြရက်	၂။ လုဝ်ဝန်းစွင်အလုဝ်လုဝ်ကိုင်မှုအခြေအနေအခပါ အကြံမြရွက်
(က) ရာညံသံများအခြေအနေရာလုပ်ပါလာမှာ	၂။ (လာနာန္အအေန လူလူလုံး) မရွာအခြားနားသား အမ်ိဳးရွမ္ကုန်း (က) ဆူညံသများအခြေအနေသူ-ပ္ပံ္ပံုပါ၁၁၃၃၃
(စ) အနံ့အသက်/အနီးအငွေ့များ- မကောင်းပါ	(၈) အနံအသက်/အန်းအငွေ့များ မြေတာင် ပါ
(ဂ) လုပ်ငန်းစွင်အလင်းရောင်	(၈) လုပ်ငန်းနှင်အလင်းရောင်
(ယ) အမှုန်အမွှားများအရြေအနေ ⁹⁰	(ယ) အမှုန်အမွှားများအခြေအနေ
(င) လေဝင်လေထွက်မာရေအာန်	(င) လေဝင်လေထွက်
ာ၊ လုပ်ငန်းရှင် လူမှုဆက်ဆံရေအရေအမေအပေါ် အကြံပြုရက်	၃။ လုပ်ငန်းရှင် လူမှုသော်ဆံရေးအခြေအနေအပေါ် အကြံပြုရှက်
(က) လုပ်ငန်းခင်ကြီးကြပ်သ (မိမိအထက်) တောင်း ပါသာ ၃5	(m) are solo (2000) (2000)
(စ) လုစ်တော်ကိုဗောက် (အဆင့်တူ) ကာတင်းပေါ့ ၈၁ ခန်	(ခ) လုပ်ဗော်ကိုင်မက် (အဆင်တ)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)-စာက ၆ မါမသမ္မင်	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)ြ ကာဂ ၆ ၂.၆၂ တယ္ဘာ
၄။ သိရြားအကြံမြရတ်များ	දා ත්ලිපානලිවුගුරාදා:
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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်းဘီလူးအခိုမှုခိုမှုလုတ်လုပ်ခြင်းလုပ်ငန်းအတွတ် ပတ်ဝန်းကုင်စိမ်နေ့်မှုခဲ့အစီအဝဦ (Environmental Management Plan = EMP) ရေးခဲ့ခြင်းမှင့်ပတ်သက်၍ ဝန်ထင်မရာအား လုပ်ငန်းနှင့်လိုင်ရာ အကြံခြံရက်များရသူခြင်း	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအခိုးမှိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းတွင်စီစံခန့်ခွဲဆစီဆရာ (Environmental Management Plan – EMP) ရေးဆွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းမှာ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံမျှရက်များရသူခြင်း
၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံပြုရှက်	၁။ လုပ်ငန်းစွင်ကျွန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်းရှံအကြံပြုရက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ	(m) ລາວ ເຊິ່ງ ເຊິ
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(n) သန်စင်ခန်းများ	ද ද ද ඉවරු රයි:
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ဂ) သန့်စင်စန်းများဘိုက်ကားကို ကျော်သောကို ကျော်သောကို ကျော်သောကို ကျော်သောကို ကျော်သောကို ကျော်သောကို က (ဃ) ဆေးကြောသန့်ရှင်းရေးစနစ်ဘိုအို ကျွှတ်သောကို ကျော်သောကို ကျော်သောကို ကျော်သောကို ကျော်သောကို ကျော်သောက
။ လုပ်ဝန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြံပြမျက်	၂။ လုဝ်ဝန်းရှင်အလုဝ်လုဝ်ကိုင်မှုအခြေအခနအပေါ် အကြံပြုဖျက်
	၂။ လုတ်နားစုအနေ လူနေတဲ့က လူနိုင်သည့်အားက အက်မှုရှိက (က) ရာညီသများအခြေအနေမြေးသင်စုအားကို
(၈) အနံအသက်/အစိုးအရှေ့များ	6) 6/00 600CTJJG5
(c) ယိုင်နီးရွင်အလင်းရောင်	
(ဂ) (ပိုင်နေမွှင်အ(ပင်းမန်) (ယ) အမှန်အမွှားများအရြေအနေ	(ဂ) လုပ်ငန်းနွင်အလင်းစရာင်မော် (ဃ) အပူန်အမွှားများအခြေအနေမော်
(ထ) အမှန်အမွှားများအမြေအနေ	(ယ) အမှန်အမွှားများအခြေအနေသမ္မီး
(c) လေဝငလေထွက	(W) အနန်အမွှားချီးအမြေအနေ
၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအရြေအနေအပေါ် အကြံပြုရက်	၃။ လုပ်ငန်းနွင် လူမှုဆက်ဆံရေးအခြေအနေအခပါအကြံပြုရွက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)	60008:000
(စ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)	(က) လုပ်နေးခွင့ကြေးကြပ်သူ (မမအထဲက) (စ) လုပ်စော်ကိုင်ဗက် (အထင့်သူ)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(၁) လုပ်အောက်ဝန်ထမ်း (ဒီမီလက်အောက်)ကြဥပြီ
රා කුළියාකුල්ලිස්තුළුක	ငှ၊ သိမြားအကြံမြရတ်များ
ార్కరా	Normen Strate State Stat

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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဝီလူးအာရှိမရှိမလုတ်လုပ်ခြင်းလုပ်ငန်းအတွက်	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘုံလူးအချိုးမိုးစုတွေလိုလုပ်ခြင်းလုပ်ငန်းအတွက်
ပတ်ဝန်းကျင်စီမာန်ဦမှုအစီအစဉ် (Environmental Management Plan – EMP) မနေးရှိခြင်းနှင့်ပတ်သက်၍	ပတ်ဝန်းကျင်စီမံခန့်ခြဲဖွဲ့အစီအဝင် (Environmental Management Plan – EMP) မေရးချိုခြင်းနှင့်ပတ်သက်၍
ဝန်ထမ်းများ၏ လုပ်ငန်းနှင့်ဆိုင်ရာ အကြံပြုဖျက်များရသူမြင်း	ဝန်းစမ်းရား၏ တွေစီခရုမ်ကျော်၍ တွေစီကိုခံခွဲရန်ဝင်ကူ အကြီးချက်များရှိတဲ့ကြီးချက်တာများကြီး
a လုပ်ငန်းနှင်ကျန်သာအနနှင့်အေးဆန္တလုပ်ကားကွယ်ရေးမနွည်းများနှင့်စင်လှည့်ခြံအကြံမြရက် (က) လုပ်ငန်းနှင်အကာအကွယ်မနွည်းများ မီးကို ((စ) သောက်သုံးရေ (၈) သန့်စင်စန်းများ မီးကို ((၈) သန့်စင်စန်းများ မီးကို ((၈) သန့်စင်စန်းများ မီးကို ((၈) လုပ်ငန်းနှင်ကြန်ကျင်လုပ်ကို မူအတြေအနေအမေါ် အကြံမြရက် (၈) လုပ်ငန်းနှင်ကြန်ကျင်လုပ် မီးကို ((၀) သလင်စလာတ် (၀) လုပ်ငန်းနှင်ကြန်ကျင်လု (ဆိတာတာ) မီးကို တဝင်္ဘ (၀) လုပ်ငန်းနှင်ကြန်ကျင်လု (ဆိတာတာ) မီးကို တဝင်္ဘ (၈) လုပ်ငန်းနှင်ကြန်ကျင်လူ (အိတာတာ) မီးကို တဝင်္ (၈) လုပ်ခော်ကိုင်ဇက် (အဆင့်သူ) ဆေဝါအင်္ကါမူရက် (၈) လုပ်ခော်ကိုင်ဇက် (အဆင့်သူ) ဆေဝါအင်္န (၈) လက်အဘာဂ်ပဲရေးအကြေအာက်) ကြောင်္ပ (၈) လက်အဘာဂ်ပဲရေးတွေ (ခြင်းကက်အောက်) ကြောင်္	၁၈ လုစ်ငန်းနှင်ကျန်းမာအေနနှင့်စသားဆွေသံတာတွယ်ရေးမပည်းများနှင့်စလုံးဦးခဲ့အကြီးမျှက် (m) လုစ်ငန်းနှင်အားအတွယ်ရည်းများ (a) သောကိုသူးရေ (m) လုစ်ငန်းနှင်အားအတွယ်ရည်းများ (m) လုစ်ငန်းနှင်အားအတွယ်ရည်းများ (m) လုစ်ငန်းနှင်အားအတွယ်ရည်းများ (m) လုစ်ငန်းနှင်အားနှင်းခရားနှင့် (m) လုစ်ငန်းနှင်အားနှင့်အခုအနှင့် အနားနှင့် နှင့် ကြီးလုပ်လုံးလုံးမှုအားအားခြားနားအားခြားနေးအားခြားနေးအားခြားနေး အနိုင်းပြားပြီး (m) လုစ်ငန်းနှင့်အလုပ်လုပ်လုပ်လုပ်လုပ်မှုအခြားနေးအားချီအကြီးချက် (m) လုစ်ငန်းနှင့်အလုပ်ရောင် (m) လုစ်ငန်းနှင့်အလုပ်ရောင် (m) လုစ်ငန်းနှင့်အလုပ်ရောင် (m) လုစ်ငန်းနှင့်အလုပ်ရောင် (m) လုစ်ငန်းနှင့်ကျနားရေးများနေးအားချီအနားအားချီအကြီးခြားကို (m) လုစ်ငန်းနှင့်ကြီးရားချင်အားချောက်နေးအားချီအကြီးချက် (m) လုစ်ငန်းနှင့်ကြီး၍င်းရ (ဗိဒိလက်စားကို) (a) လုစ်စောကိုင်ရား (ဗိဒိလက်ဆောက်) (a) လုစ်အားကိုင်ရား (ဗိဒိလက်ဆောက်) (a) လုစ်အားကိုင်နေး (ဗိဒိလက်ဆောက်) (b) လက်ဆောက်ငန်း (ဗိဒိလက်ဆောက်) (c) လက်ဆောက်နေး (ဗိဒိလက်ဆောက်)
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ာ၊ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံပြုရက်	ာ၊ လုပ်ငန်းစွင်ကျွန်းမာရေးနှင့်သေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံပြုချက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ
(ခ) သောက်သုံးရေ	(၈) သောက်သုံးရေ
() သန့်စင်ခန့်များ	(c) သန့်စင်ခန်းများ
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ဟ) ဆွေးတွောသန့်ရှင်းရေးစနစ်
၂။ လုပ်ငန်းစွင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအခပါ အကြံပြုရက်	၂။ လုပ်ဝန်းစွင်အလုပ်လုပ်ကိုင်မှုအခြေအခုနအပေါ် အကြံပြုရက်
(က) ရာညံသံများအစရြအစန	(က) ဆူညံသံများအစစြဲအစန
(စ) အနံအသက်/အစိုးအငွေ့များ	(စ) အနံ့အသက်/အနီးအငွေ့များ
(၁) လုပ်ငန်းနွင်အလင်းရောင်	
(ယ) အမွန်အမွှားများအခြေအနေ	(1) 304 3901401330 6330 8
(င) လေဝင်လေထွက်	(ယ) အနားနားများမှ ၂.၂ (င) လေဝင်လေထွတ်
၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအရြေအနေအပေါ် အကြံပြုရက်	၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေအခြေအနေအပေါ် အကြံပြုရက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)	(က) လုပ်ငန်းစွင်ကြီးကြပ်သူ (မိမိအထက်)
(ခ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)	
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(ခ) လုပ်မော်ကိုင်ဇက် (အထင့်တူ)
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ుర్కర ఇర్రా ఇంట్ గర్గా శీరీయాకింరంణావులు లక్ష్ణశ్రీరియా నిరియాన లక్ష్ణశ్రీరియా	0000

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၁။ လုပ်ငန်းခွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှင်း၍အကြံပြုရက်	ာ၊ လုပ်ငန်းစွင်ကျွန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စင်လျှည်းရှ်အကြံပြုရက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ	အ လို တင်မှုနိုင်လမ်းနှင့်သေးအဖွဲ့မ်ာတယာကိုက်ကက်ကိုက်ကက်ကက်ကက်ကက်ကက်ကက်ကက်ကက်ကက်ကက်ကက်ကက်က
(စ) သောက်သုံးရေ တာင်ရုံမှ ဝေးရေ	(က) လုတ်နှန်းအောကာအကွယ်ပစ္စည်းများ (စ) သောက်သုံးရေ
(ဂ) သန့်စစ်စန်းများ - ဘိုအောက်မှ မှ	(စ) သောကသူးရေ
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ဂ) သန္နစင်ခန်းများ
၂။ လုပ်ဝန်းစွင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအခေါ် အကြံမြူရက်	
(က) ရာသံသံများအခြေအခန္	၂။ လုပ်ငန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအမှုနေအပေါ် အကြံပြုရက်
(က) မပို့ကြသများအဖြဲအနေ (၈) အနံအသက်/အစိုးအငွေ့များ	(က) ရာညံသံများအခြေအခန္
(စ) လုန်အင်တလုန်အနှင့်များ	(စ) အနံ့အသက်/အန်းအငွေ့များ
(၈) လုံဝင်နန်းခွင်အလင်းရောင်မြောင်နေသည်မှု (ယ) အပူန်အပွားများအခြေအနေမြော	(ဂ) လုပ်ငန်းစွင်အလင်းရောင်
(ယ) အမှန်အမွှားများအပြေအနေ	(ယ) အမူန်အမွှားများအဖြေအနေမိဂျိ (င) လေဝင်လေထွက်
(c) acocacodas	(c) လေဝင်လေထွက်
၃။ လုပ်ငန်းရှင် လူမှုဆက်ဆံရေးအခြေအနေအဝေါ် အကြံပြုရက်	၃။ လုပ်ငန်းခွင် လူမှုဆက်ဆံရေးအရေအနေအပေါ် အကြံပြုရက်
(က) လုပ်ငန်းစွင်ကြီးကြပ်သူ (မိမိအထက်)	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)
(ခ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)	(ခ) လုပ်မော်ကို(အဆင့်တူ)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(၈) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်) <u>ကူမီ</u>
රූ කුළුකතුවුල් හරුන	දා හැඟිනකේලිල්වෙන්න
సంగ్రావ	τοσφο Kg σρος: Hatter J2 wess Ma. Kay. Zin. Phyu

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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလုအချိန်မို့မှတတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကွမ်စီနေနိုင်နှစ်မှုဆိုရီအဝဉ် (Environmental Management Plan – EMP) မနောဲ့ခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းမှာ၏ လုပ်ငန်းနှင့်အဝိုင်ရာ အကြံပြုံရက်ရားရပျံခြင်း	ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအမိုးမိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကွမ်မိမန်ခွဲမှုအမီအဝဉ် (Environmental Management Plan – EMP) ရေးဆွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုံချက်များရလုန်ခြင်း
ာ။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှည်းရှ်အကြံပြုချက်	၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လူဦးရှံအကြံပြုရုက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ
(e) သောက်သုံးရေ	(စ) သောက်သုံးရေရေသင်
(n) သန့်စင်ခန်းများ $\theta_{22} = 0.05$	(n) သန်စင်ခန်းများ ကဲ့လောက ပါ. ၀၁.၃.5
(ဃ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ဃ) ဆေးကြောသန့်ရှင်းရေးစနစ် အဖြေးဘာကော် အသည်
(၈) သနန်မာတွားများအဝေထြအခန္	၂။ လုဝ်ငန်းမွှင်အလုပ်လုပ်လိုင်မှုအခြေအနေနတ္တခေါ် အကြံပြူရက် (၈၇) ရည်သံများအခြေအနေ မေးမြ ညို (၈) ရည်သံများအခြေအနေ မေးမြ ညို (၈) လုပ်ငန်းမွင်အလုပ်းရောင် မြာသခုသ် (၈) လုပ်ငန်းမွင်အလုပ်းရောင် မြာသခုသ် (၈) သူ့မွန်းအျွားများအခြေအနေ မေးမြ ကို
(င) လေဝင်လေထွက်	(င) လေဝင်လေထွက်
ဗု လုပ်ငန်းနှင့် လူမှုထက်ထံရေးအခြေအနေအခေါ် အကြံခြံရက် (က) လုပ်ငန်းနှင့်ကြန်ကြပ်သူ (ဝိဒိအထက်)	၃။ လုပ်ငန်းနှင့် လူမှုထက်ထဲရေအခြေအနေအခဒ်အကြံခြံရက် (က) လုပ်ငန်းနှင့်ကြံကြပ်သူ (စိစိအထက်)အိဝင်နီးဖြယ့်ပါသည်
රා දැළියකරුවුන්දාන	දා ක්ලිකක්වියිත්තය
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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူအချိန်ရှိထွတ်လုပ်ခြင်းလုပ်ငန်းဆတွက် ပတ်ဝန်းကွင်စီမံနေနိုမ်မနေနိုင် လိုင်တန်အချွန်းတွင် ဆိုကိုပရက်ရကာ၏ လုပ်ငန်းခွင်နေဘိုရာ အကြီးမျက်ရှိကားချားရှိသို့	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအမြိုးမှိုးတွတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကျစ်စီမံနေနဲ့ခွဲအစီအဝဉ် (Environmental Management Plan – EMP) နေနာ်ရှိခြင်းနှင့်ပတ်သက်၍ ဝန်ထစ်းမူအဆို လုပ်ငန်းခွင်ရာ အကြံမြရတ်များရသူခြင်း
အ လုပ်ငန်းနှင်ကျန်းမာရေးနှင့်ဘေးအနုရာယ်ကာကွယ်ရောပစ္စည်းများနှင့်လိုလူဦးရှိအကြံပြီးရက် (က) လုပ်ငန်းနှင်အကာအကွယ်ပစ္စည်းများ	အ လုပ်ငန်းစွင်အန်းမားရေးနှင့်သေးအန္တရာယ်ဘာကွယ်ရေးပစ္စည်းများနှင့်ဝင်လုပ်ငှိမ်းရှိအကြံမြရက် (က) လုပ်ငန်းစွင်အဘာအကွယ်ပစ္စည်းများ
(ယ) ဆားကြာသန့်ရှင်းရောနေစ် ၂။ လုဝ်ဝန်းစွစ်အလုစ်လုပ်လိုက်မှုအားရြာအာနေအာမ်၊ အကြံမြူရက် (က) ရာည်သံများအားရြာအာန (စ) အနံအသက်/အစိုးအဝင္ပ	(ဃ) ဆေးကြောသန့်ရှင်းရောဝနစ်-မာခကို အမြေးနှင့် မိန်းမြာသည်. ၂။ လုပ်ငန်းနှင့်အလုပ်လုပ်ကိုပ်နာအခြောခုနအခေါ် အကြံခြဲရက် (က) ရာည်သံများအခြေအခန
(ဂ) လုပ်ငန်းရှင်အလမ်းအရာမ်	(၈) လုမ်ငန်နာရာလိအရာလိ ဒီ
(က) လုပ်နော့စိုကြီးကြပ်သူ (ဒီမိအထက်)	၃။ လုပ်ငန်းခွင် လူမှုလက်ဆဲရေအာမြောနေအဝပ် အကြံပြရက် (က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်) (စ) လုပ်စော်ကိုင်ဖက် (အထင့်တူ)
ი	çı သိရြာအတြရြမှာရာ
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ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအခိုးရှိဖွဲ့ထုတ်လုပ်ရမ်းလုပ်ငန်းအတွက် ပတ်ဝန်းတရုပ်စီမံခြေခဲ့ရမ် (Environmental Management Plan – EMP) ရေးဆွဲခြင်းနှင့်မတ်သက်၍ ဝန်ထမ်းမှား၏ လုပ်ငန်းခွင့်ဆွဲခိုင်ရာ အကြံပြာမျက်မှားရပြောင်း	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအခရိုးမိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကွင်စိပ်ခန့်ခွဲအတေဝင် (Environmental Management Plan – EMP) ရေးချိုင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းမှား၏ လုပ်ငန်းနှင့်ကိုင်ရာ အကြံပြရက်များရသူမြင်း
ာ၊ လုပ်ငန်းရှင်ကျွန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်ဝပ်လျဉ်း၍အကြံပြုရက်	ာ၊ လုပ်ငန်းခွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှုန်း၍အကြံပြုရက်
(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ	(က) လုဝ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ - မိုးသည်သည်။ (က) လုဝ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ - မိုးသည်
(a) completing & C C	C
(စ) သန့်ဝစ်ခန်းများ	SEE alange alter
(ယ) ဆေးကြောသန့်ရှင်းရေးဝနစ်	(ဂ) သန့်ဝင်ဝန်းများ (ယ) စဆးစကြာသန့်ရှင်းရေးစနစ်မိုည်(သည်)
၂။ လုပ်ငန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအခပ် အကြံပြုရက်	၂။ လုပ်ငန်းရွှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအခပ်၊ အကြံပြုရက်
(က) ရာညံသံများအခြေအနေ	E Anti
(စ) အနံအသက်/အစိုးအငွေ များ	(a) mimarch/28:220 (2): 42:51
(ဂ) လုပ်ငန်းရှင်အလင်းရောင်	(-) - Section (-)
(ဃ) အမှန်အမှားများအဝစြအနေ	(m) m/ m/m/m/m/m/m/m/m/m/m/m/m/m/m/m/m/m/
(င) လေဝင်လေထွက်	(w) အဖို့နာအွားများအမြေအန (c) လေဝင်လေထွက်
၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေအရေအနေအပေါ် အကြံပြုရက်	၃။ လုပ်ငန်းခွင် လူမှုဆက်ဆံရေးအခြေအခနအခေါ် အကြံပြုရက်
(က) လုပ်ငန်းနှင်ကြီးကြပ်သူ (မိမိအထက်)	(က) လက်န်းခင်ကြီးကြပ်သ (မိမိအထက်) <u>၂၇၈၈၈ (၆</u>
(i) လုပ်တော်ကိုင်ဗက် (အဆင်တ)	(a) a war a francia 32 20 6 40
(e) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(a) ເປັນແຕ່ເລັ້າ (ມີເລີ້ອີດເຫັດສາກ໌)ມີເລີ້ອີດເລີ້ອີລີເລີ້ອີດເລີ້ອີລີເລີ້ອີດເລີ້ອີດເລີ້ອີດເລີ້ອີດເລີ້ອີດເລີ້ອີດເລີ້ອີລີເລີເລີ້ອີລີເລີ້ອີລີເລີ້ອີລີເລີລີເລ
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იაიზყან	Norman

* Myanmar Asa Optical International Co., Ltd. * ၏ မှန်ဘီလူအာရီမရှိထွတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ဟိတ်နန်းကျင်မိပ်နေနိုင်နဲ့အတိတ်ဆင့် (Environmental Management Ran – EMP) မေးဆွဲခြင်းနှင့်တစ်သတ်၍ ဝန်ထမ်များ၏ လုပ်ငန်းခွင်ရာ အတြိုးများနှင့်စစ်လူနှိုင်ရာစီကြေးများနှင့်စစ်လူနှိုင်ရာအကြီမြရတ် (က) လုပ်ငန်းခွင်အကာအတွယ်ပစ္စည်းများ	ပတ်ဝန်းကျင်မိပ်ခန့်မှုအစီအစဉ် (Environmental Management Plan – EMP) ခေုဆွဲခြင်းနှင့်ပတ်သက်၌ ဝန်တစ်များ၏ လုပ်ငန်းနှင်လိုင်ရာ အကြံမြဲရက်နှားရလူမြင်း ၁။ လုပ်ငန်းနှင်အကာအရေးနှင့်စဘာအန္တရာယ်ကာကွယ်ရေမပစ္စည်များနှင့်ဝင်းသူဦးရှိအကြံမြရက် (က) လုပ်ငန်းနှင်အကာအတွယ်ထူည်းများ
၀။ လုပ်ငန်းစွင်ကျန်းမာစမေနှင့်စသးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လည်း၌အကြံပြရက် (က) လုပ်ငန်းစွင်အကာအကွယ်စစ္စည်းများရှိပါတခုသ (စ) သောက်သုံးရေရေသို	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ
(က) လုပ်ငန်းနှင့်အကာအတွယ်ဖ <u>ွင့်သူများ မြိပ်သည်.</u> (စ) သောဂ်သုံးရေ <u>မြေသည်</u> (၀) သူနင်္ဂနာများ မြိပ်သည်.	
(e) earshare	
(a) 222022 gul2225.	(စ) သောက်သုံးရေ အျသင့်
	(n) သန်စင်ခန်းများ
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ဃ) ဆေးစကြာသန့်ရှင်းရေးစနစ်
	၂။ လုဝ်ဝန်းစွင်အလုဝ်လုဝ်ကိုင်မှုအခြေအနေအခေါ် အကြံပြုရွက်
၂။ လုပ်ငန်းနွင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအခပါ် အကြံပြုရက်	(က) ဆည်သံများအခြေအခန္
(က) ထူညံသံများအခြဲအခန္မြို<i>င်းပြီ ၁.22 ဦ</i>	(စ) အနံအသက်/အစိုးအငွေ များ
(၈) အနံ့အသက်/အဖိုးအဝွေ့များ	(ဂ) လုပ်ငန်းရှင်အလင်းရောင် ဒီပါသည်
(a) ສະຊັສ ແຕ່ກາສາເສສອງ ຢູ່າ. (a) လုပ်ငန်းနှင်အလင်းရောင်	(ယ) အမွန်အမွှားများအရေအစနမပြ
(ယ) အမှုန်အမွှားများအခြေအနေ	(W) အမှုနာအွားများအဖြေအန (c) လေဝင်လေထွက်
(c) လေဝင်လေထွက်	
၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုရက်	၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအခပါအကြံပြုရှက်
၃၈ (၃၀၄နာနှင့်ကြီးကြပ်သူ (စိမိအထက်)	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)- ³² သင့်ကြီး
(၈) လုပ်မော်ကိုင်ဖက် (အဆင့်တူ)	(ခ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ) <i>103ဝင် နှ</i> မြှ
(စ) လုပ်တောက္(၁၆တ (အဆင့်တူ)	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်) <i>အိုသင်နေ</i> ငြ
(n) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	၄။ သီးရားအကြံပြုရက်များ
၄။ သီးရားအကြိပ်မျက်များ	ငှိ၊ သမ္မားအက္ကပြုရတ္ရနား
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ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအခြံမရှိတွတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကွင်စီမံနေခွဲဖွဲ့တွေတို့ (Environmental Management Plan – EMP) ဖုဆုခွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြာရှက်များရပျာင်း	ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘုံလူးဆခါမှုမိရာတွင်ကုပ်ငိန်းအတွက် ပတ်ဝန်းကွန်မိန်မှုနှစ်နောင် (Environmental Management Plan – EMP) နေနော်ခြင်းသုပ်သက်၍ ဝန်ထမ်းချင်းတွင် အကြေးရာက်မှုည်ပြီးရာ အကြီး၌မျှောက်များနှင့်က
ာ၊ လုပ်ငန်းစွင်ကျွန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်းရှိအကြံပြုချက်	ာ၊ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပုစ္စည်းများနှင့်စပ်လူ့ဦး၍အကြံပြုချက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ
(စ) သောက်သုံးရေ	(ခ) သောက်သုံးရေ
(ဂ) သန့်စင်ခန်းများ	(ဂ) သန့်စင်ခန်းများ
(ဃ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်
၂။ လုပ်ဝန်းစွင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအခေါ် အကြံမြူရက်	၂။ လုပ်ဝန်းရွှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြံမြရက်
(က) ရာညသများအခြအခနမ်းရှိပြ	(က) ရာညံသများအခြေအနေ
(စ) အနံ့အသက်/အနီးအငွေ များ	(စ) အနံ့အသက်/အနီးအငွေ့ များ
(ဂ) လုပ်ငန်းရွှင်အလင်းရောင်	(ဂ) လုပ်ငန်းစင်အလင်းရောင်
(ယ) အမှုန်အမွှားများအခြေအနေမိန်ပြည်	(ယ) အမန်အမားမားအရှေအနေ
(a) outer and a second and a second and a second	(င) လေဝင်လေထွက်
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၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆဲရေးအရေအနေအပေါ် အကြံပြုရက်	၃။ လုပ်ငန်းရွင် လူမှုဆက်ထံရေးအခြေအနေအပေါ် အကြံပြုရွက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်) <i>3@ ဆင်င်စမြ</i>	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)
(ခ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)	(ခ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)မီးဌာန်နိုင်နှင့်	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်) <u>*2.80 နီ ဂါ</u> ဒ္ဒ
දා ක්ලියකේටුටුත්රාජ්ය	റ്റം വീട്ടായവ്വില്ലൻക്ക
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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်သီလူးအဆိုးခိုရာလုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကျင်မီခံနေနဲ့ခွဲအစီအဝဉ် (Environmental Management Plan – EMP) ရေးဆိုခြင်းနှင့်ပတ်သက်၌ ဝန်ထမ်းချားဆိုလုပ်ငန်းခွင်တိုင်ရာ အကြံမျက်များရသူခြင်း	ိ Myanmar Asia Optical International Co., Ltd. ″ ၏ မိုန်ဘီလူးအခရီမရှိတွတ်လုပ်မြင်းလုပ်ငန်းအတွက် ပတ်ငန်းအခြင့်အနေရှိသော ၂ ခဲ့တော်သူတွေ (Environmental Management Plan – EMP) ခုနော်ခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းမှုအရာမြင်းခြင်းချင်းချင်းခြင်းချင်းကိုခြင်းခြင်းချင်းကို ကြေးမြင်းချင်းချင်းချင်းချင်းချင်းချင်းချင်းချ
၁။ လုပ်ငန်းခွင်အနားမာရေးနှင့်သေးအန္တရာယ်ကာတွယ်ရေးပစ္စည်းများနှင့်စပ်လည်းရှိအကြံမြရက် (က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ (၈) သန့်စင်စန်းများ (၈) သန့်စင်စန်းများ (ယ) ရစားရကြာသန့်ရှင်းရေးစနစ်	၁၊ လုပ်ငန်းစွင်အုန်မာခရမှန်ဝိစအအန္တရာယ်ကာကွယ်နော့မရွည်များနှင့်စပ်လူဦးရှိအကြံမြရက် (က) လုပ်ငန်းစွင်အကာအကွယ်စဉ္စည်းမှာမြိုပါပဲပဲည် (စ) ဆန့်စင်ရန်းများမြိုပါ <i>ပဲပဲည်</i> (၈) ဆန့်စင်ရန်းများမြိုးပါပဲ <i>ပဲညို</i>
၂။ လုပ်ငန်းနှင့်အလုပ်လုပ်လိုလ်မှုအခြေအနေအာဒေ အကြံခြဲရက် (က) ရည်သံမှားအခြေအနေ	၂ လိုင်ရန်စွင်အလုပ်လုပ်ကိုင်ဖုအာဖြာအနေအာဒါအကြံပြဲရက် (က) ရာညံသံများအာဖြေအခန္ မိန် ဆိုသိုင်မ (စ) အနံ့အသက်/အခိုအခဋ္ဌ မရှား မိန့်ရှိ မိန့်။ (၈) လုပ်ငန်းစွင်အလင်းရာင် မိန့်ရန်အားမှ ကို မိန့်ရန်က (ယ) အမူန်အမွှားများအခြေအခန္ မိန့်ရန် မိန့်ရန် (င) ကလင်လေထွက် မိန့်ရန် မိန့်ရန်
(၁) လေလလေးမွာက ခု။ လုပ်ငန်းနှင့်ကြီး၍ပိသူ (ဒီမိအထက်)	సా సార్దింపిల్లో స్నాతియారుండాబాంధ్రియాకినాంలో బాయ్రెచ్చిధాని (m) సారింపిక్షాకర్ స్నోటియోపి (టివియాని)దేశి ఎవి జి. కె. (a) సారింపిస్తోరించ్ (బాయిస్తేయ్లా)
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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူအခရိုးရှိသတ်လုပ်ဖြင်းလုပ်ငန်းအသွတ် ပတ်ဝန်းဘွင်ပိင်စန်ခွဲတာမီအဝဉ် (Environmental Management Plan – EMP) နေးခွဲဖြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းမှာ၏ လုပ်ငန်းနှင့်ဆိုင်ရာ အကြံမြေရက်မှာအနေပုံခြင်း	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအချီးမိုးထုတ်လုပ်မြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကွင်ဗိမိန်ခွဲမှုအစီအဝဉ် (Environmental Management Plan – EMP) မနော့ခြင်းနှင့်ပတ်သက်၍ ဝန်းတစ်မှုအ၏ လုပ်ငန်းစုင်တိုင်ရာ အကြံဖြာရက်များရေးကြီးခ
ခဲ့လည်း ကိုလင်းနှင့်လားနှင့်သားသည့် ကိုလင်းကို ကိုလင်းကို ကိုလင်းနှင့်လိုက်ကိုက်ကိုက်ကိုက်ကိုက်ကိုက်ကိုက်ကိုက	၁။ လုပ်ငန်းနှင့်ကျန်းမာချေးနှင့်စဘားအန္တလယ်ကာကွယ်ရေးမင္စည်းများနှင့်စပ်လှည့်းမျှအကြံမြူရက် (က) လုပ်ငန်းနှင့်အကွားအကွယ်မင္စည်းများ
၂။ လုပ်ငန်းနှင့်အားလုပ်လုပ်ကိုင်မှုအားြောအနေအာမ်၊ အကြံပြုရက် (က) ဆူညံသံများအခြေအခန္	၂ လုပ်သန်မှုစ်ထာလုပ်လုပ်ကိုပ်မှုအားခြေအားခုမ်အားပြီးချက် (က) ရားညံသံများအားခြေအခန္ သို့ (ခ) အနွံအသက်/အခိုးအားခွ များ
(င) စလဝင်လေထွက်	(င) စလဝင်လေထွက်
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(i) φορ		ိ Myanmar Asia Optical International Co., Ltd. " ၏ မိန်ဘီလူအာရှိမရှိထုတ်လုပ်မြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကွင်စိပ်ခန့်ခွဲခွဲဆစ်ဆွင် (Environmental Management Plan – EMP) ဓနော့ခွဲဆုံးနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းနှင့်ဆိုင်ရာ အကြံပြာရက်မှားရောမြင်း
(i) μ	ာ။ လုပ်ငန်းခွင်ကျွန်းမာရေးနှင့်သေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်းရှိအကြံပြုရှက်	
(i) 3.3 (ii) 3.4 (iii) 3.4 (iiii)		
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J. Nydelinski vydyckýk vydykrasijansky vydyk vy	(ဃ) အေးကြောသန့်ရှင်းရေးစနစ်	(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်
(m) ရာညိုသံရားအခြဲအန္ (a) ဆန်အသက်/ကဆန်အခဋ, ရာ (b) ဆန်အသက်/ကဆန်အခဋ, ရာ (c) ဆန်အသက်/ကဆန်အခ (c) ဆန်အသက်/ကဆန်အခ (c) ဆန်အသက်/ကဆန်အခဋ္ဌ, ရာ (c) ဆန်အသက်/ကဆန်အခဋ္ဌ, ရာ (c) ဆန်အသက်/ကဆန်အခြားနဲ့ (c) ဆန်အသက်/ကဆန်အခြားနဲ့ (c) ဆန်အသက်/ကဆန်အခြားနဲ့ (c) ဆန်အသက်/ကဆန်အခြားနဲ့ (c) ဆန်အသက်/ကဆန်အခဋ္ဌ, ရာ (c) ဆန်အသက်/ကဆန်အခဋ္ဌ, ရာ (c) ဆန်အသက်/ကဆန်အခဋ္ဌ, ရာ (c) ဆန်အသက်/ကဆန်အခြားနဲ့ (c) ဆန်အသက်/ကဆန်အခြားနဲ့ (c) ဆန်အဆိုင်ခြားနဲ့ (c) ဆန်အသက်/ကဆန်အခဋ္ဌ, ရာ (c) ဆန်အသက်/ကဆန်အခြားနဲ့ (c) ဆန်အခြားချေခဲ့ (c) ဆန်အသက်/ကဆန်အခဋ, ရာ (c) ဆန်အသက်/ကဆန်အခဋ, ရာ (c) ဆန်အသက်/ကဆန်အခဋ, ရာ (c) ဆန်အသက်/ကဆန်အခဋ, ရာ (c) ဆန်အသက်/ကဆန်အခဋ္ဌ, ရာ (c) သက်ကောက် (c) ဆန်အခြားနဲ့ (c) ဆန်အချောင်ခြားနဲ့ (c) ဆန်အခြားချောင်ချောင်ခဲ့ (c) သက်ကားခြားနဲ့ (c) ဆန်အသက်/ကဆန်အခုနှင့် (c) ဆန်အသက်/ကဆန်အခုနှင့် (c) ဆန်အခုနှင့် (c) ဆန်အခုနှင့် (c) ဆန်အသက်/ကဆန်အခုနှင့် (c) ဆန်အသက်/ကဆန်အခုနှင့် (c) ဆန်အသက်/ကဆန်အခုနှင့် (c) ဆန်အသက်/ကဆန်အခုနှင့် (c) ဆန်အသက်/ကဆန်အခုနှင့် (c) ဆန်အသက်/ကဆန်အခုနှင့် (c) ဆန်အခုနှင့် (c) ဆန်အခုနှင့် (c) ဆန်အခုနှင့် (c) သန်အခုန်အခုန်က (c) သန်အခုနှင့် (c) သန်အခုနှင့် (c) သန်အခုနှင့် (c) ဆန်အခုနှင့် (c) သန်အခုနှင့် (c) သန်အခုနှင့် (c) သန်အခုနှင် (c) သန်အခုနှင့် (c) သန်အခုနှင် (c) ဆန်အခုနှင် (c) သန်အခုနှင် (c) သန်အခုနှင် (c) သန်အခုနှင် (c) သန်အခုနှင် (c) သန်အခုနှင် (c) သန်အခုနှင် (c) သန်အခုနှင် (c) သန်အခုနှင် (c) သန်အခုနှင် (c) သန်အခုန်အခုနှင် (c) သန်အခုနှင် (c) ဆန်အဆက်/ကန်အခုနှင် (c) သန်အခုနှင် (c) သန်အကက်/ကန်အခုနှင် (c) သန်အခုန်အခုနှင် (c) သန်အခုနှင် (c) ဆန်အကက်/ကန်အခုနှင် (c) ဆန်အကက်/ကန်အခုနှင် (c) ဆန်အကက်/ကန်အခုနှင် (c) သန်အခုနှင် (c) သန်အခုန်အခုနှင် (c) သန်အခုနှင် (c) ဆန်အခုန်အခုနှင် (c) သန်အခုနှင် (c) သန်အခုန်အခုနှင် (c) သန်အခုနနှင် (c) ဆန်အခုနနှင် (c) ဆန်အခုနနှင် (c) ဆန်အခုနနှင် (c) ဆန်အခုနနှင် (c) ဆန်အခုနနှင် (c) ဆန်အခုနနနနနနနနနနန		။ လုပ်ငန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြံပြုရက်
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(a) സ്കാർസ് (సంసర్థంల) (b)	၃။ လုပ်ငန်းရွင် လူမှုဆက်ဆံရေးအခြေအနေအခပါ အကြံပြုရှက်	
(a) Wróczowoście (680 wróczowoś) c stepzeczie w sportu w	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်) <u></u>	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်) <u>စတာင်</u>
(n) whearholewit (280whearh) 	(ခ) လုပ်ဗော်ကိုင်ဖက် (အဆင့်တူ)	(စ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ) <u>စာကာင်</u>
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ဝန်ထမ်များ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုရတ်များရသူမြင်း	ာ၊ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်တေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လူဦး၍အကြံပြုရှက်	
၁။ လုဝ်ငန်းစွင်ကျန်းမာရေးနှင့်သေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံပြုရက်	(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ	
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ <u>အာ ၁၃% ကြ</u>	(m) (ပိုင်မန်းစိုင်အကာအကွယ်ပစ္စည်းများ	
(စ) သောက်သုံးရေ	(1) 22 22 22 22 22 22 22 22 22 22 22 22 22	
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(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်		
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(ဂ) လုပ်ငန်းစွင်အလင်းရောင်	(ဂ) လုပ်ငန်းစွင်အလင်းစရာင်ဦ	
(ဃ) အမှုန်အမွှားများအခြေအနေ	(ဃ) အမှုန်အမွှားများအခြေအနေ	
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	လုဝိသက် <u>နီ. အိ</u> မ္မ

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ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအခိုးမိုးတွင်လုပ်ရှင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကွင်မိစ်နို့ခွဲမှုအစီအဝဉ် (Environmental Management Plan – EMP) မှေရော့မြင်းနှင့်ပတ်သက်၍ ဝန်ထစ်များ၏ လုပ်ရန်းနှင့်ထိုင်ရာ အကြံပြုံချက်များရသူမြင်း	" Myanmar Asia Optical International Co., Ltd." ၏ မှန်ဘီလူးဆရီဗရာတို့လုပ်လုပ်ခြင်းလုပ်လုန်းအတွက် ပတ်ဝန်မာအွဲခြင်မာနိုင်ချင်ခြင်မာနောင်း (Environmental Management Plan – EMP) ခေရာခ်ခြင်းမာနိုင်ပတ်သက်၍ သင်္သာနီမာနောက်များကြီးရာ အုတ်ပြားခြင်းမာ အကြားချင်များကြောင့်
၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြု၍ကိ	၁။ လုပ်ငန်းစွင်ကျွန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံပြချက်
(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ
CP 226	(စ) သောက်သုံးရေ
စ) သောကသူးရေမြေမာရမြေမာရာ	(ဂ) သန့်စင်ခန်းများ
ယ) ဆေးကြောသန့်ရှင်းရေးဝနစ်မုံးသောက်မေါ်သည်။	(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်
။ လုပ်ငန်းရှင်အလုပ်လုပ်ကိုင်မှုအစုရြအနေအဖေါ် အကြံပြုရက်	၂။ လုဝ်ဝန်းစွင်အလုဝ်လုဝ်ကိုင်မှုအခြေအနေအပေါ် အကြံမြုံရွက်
က္) စာသသမားအစြေအနေ	(က) ဆည်သံများအရေအနေ
a) အန်အသက်/အရိုးအရှေ့များ	(၃) အနံအသက်/အနီးအငွေ များ
(n) လုပ်ငန်းစင်အလင်းရောင်	(ဂ) လုပ်ငန်းစွင်အလင်းရောင်
(1) 3453474475475365365	(ယ) အမှုန်အမွှားများအစြေအနေ
(c) enobenagon	(င) လေဝင်လေထွက်
၃။ လုပ်ငန်းနှင် လူမှုဆက်ဆံရေးအခြေအနေအဝေါ် အကြံပြုရှက်	၃။ လုပ်ငန်းနွင် လူမှုထက်ထဲရေးအခြေအနေအခပ်အကြံပြုရက်
(က) လုင်ငန်းခွင်ကြီးကြပ်သူ (စိမိအထက်)ေကာင်း ပါသည်။	(က) လုပ်နေနိုင်ကြီကြပ်သူ (စိမိအထက်) <u>ကြောပ်လ</u> ုပ် (က) လုပ်နန်းနှင်ကြီကြပ်သူ (စိမိအထက်)
(စ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)	(e)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်) <u>မို ၉</u> ဒီ ပါ ၀.၁ ၉ <i>၆</i> %	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)
දා න්ලියාකැට්ටුතුරාතුය	ငှာ သံခြားအတြံမြရတ်များ
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လုပ်သက်	လွှစ်သက်(.3.) မူက်က စာက်သွယ်ရန်လိပ်စာ

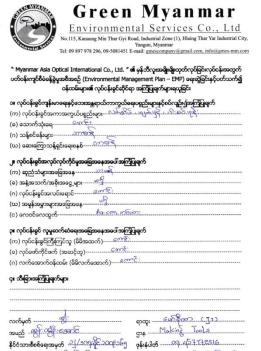
Green Myanmar Environmental Services Co., Ltd No. 115, Kanaung Min Thar Gyi Road, Industrial Zone (1), Illiaing Thar Yar Industrial City, Yangon, Wyanm. Tet: 69 897 978 296, 09-5081451 E-mail: gmescempany@gmail.com, info@gmes-mm.com	Green Myanmar Environmental Services Co., Ltd No.115, Kanaang Min Thar Gyi Road, Industrial Zone (1), Hlaing Thar Yar Industrial City, Tel: 09 897 978 296, 09-5081451 E-mail: gmescompany@gmail.com, info@gmes-mm.com
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ာ၊ လုပ်ငန်းစွင်ကျွန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လူဦး၍အကြံပြုရက်	ာ။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုရုတ်
(m) and fragman windows and and and a	(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများစီ ² 32.½.22.2.2
(ခ) သောက်သုံးရ ေ ကိုအာကာန်က်-	(စ) သောက်သုံးရေ
(a) 226626-20000000000000000000000000000000	(n) သန့်စင်ခန်းများ
(၁) သမ္မာစေနာများ ကို	(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ် စုနှိုင် စို့တိုင် စိုင်စိုင် စိုင်စိုင် စိုင်စိုင်စိုင် စိုင်စိုင်စိုင်စိုင်စိုင်စိုင်စိုင်စိုင်
၂ လုပ်ငန်းနှင့်အလုပ်လုပ်ကိုင်မှုအခြေအခနအခပ် အကြံမြူရက် (က) ရည်သံများအခြေအခန _{်မြိ} ုင်းနှင့်	၂။ လုပ်ဝန်မှန်တာလုပ်လုပ်လိုင်မှုအခြေအနေအမေါ် အကြံမြုံရက် (က) ရောသံသံများအခြေအနေ
(က) ဆူညသများအမြေအနေ ရ (၈) အနံ့အသက်/အစိုးအငွေ များ - ^{ဆူရိုက်}	(ခ) အနံ့အသက်/အနီးအငွေ့ များ
(၀) အန်အားကိုအမ်ားအမင့် မိုး (၈) ဟိုစင်န်းနှင်အလင်းဖရာင် မိုးကားကိုရှိခြင်ပြား ဗ် ~	(a) are star strong and
(က) လုပ်ငန်းရှိပ်အပြေးရာင် မရှိပြီး (ယ) အမှုန်အမွှားများအခြေအနေ - မရှိပြီး	(က) လှောန်အမွှားများအရေအနေ မရှိ
(ဆ) အဖွဲ့အဖွဲ့အဖွဲ့အဖွဲ့အဖွဲ့အဖွဲ့ (င) လေဝင်လေထွက်	(င) လေဝင်လေထွက်
	၃။ လုပ်ငန်းရှင် လူမှုထက်ထံရေးအခြေအနေအခပါအကြံပြုရက်
၃။ လုပ်ငန်းနှင့် လူမှုဆက်ဆံရေအခြေအနေအခပ် အကြံပြုရက် (က) လုပ်ငန်းနှင်ကြီးကြပ်သူ (မိဒိအထက်)-အောမ်းပါတ် ဖ	(က) လုပ်ငန်းစွင်ကြီးတုပ်သူ (မိမိအထက်)ေတာန်
(က) လုပ်နေမွဲကျေးကြာသူ (မအေထဲက)	(ခ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တွ)
(ခ) လုပ်မောက်မောက် (အသင့်တူ)	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)
ငှာ သိရားအကြံခြရတ်များ	ငှ၊ သိမြားအကြံပြရတ်များ
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လုပ်သက် ဆက်သွယ်ရန်လိပ်စာ ဖင်လာဒို့ စော်ဖွေနိုင်	గురీపుగా <u>4.85</u> జుగాపుల్యంక్ గిరీలా అదేనాప్ర లాగా కుడ్ ఇర్

Green Myanmar <u>Environmental Services Co., Ltd</u> No.115, Kanaung Min Thar Gyi Road, Industrial Zone (1), Hiaing Thar Yar Industrial City, Yangon, Myanmar Tet: 09 807 978 296, 09-3081451 E-mail: <u>merscompany/demail.com</u> , <u>Info@ame-mm.com</u> "Myanmar Asia Optical International Co., Ltd." of 45-05 2005 2005 2005 2005 2005 2005 2005	Myanmar Asia Optical International Co., Ltd. Software (Expected for the control of th
၁။ လုပ်ငန်းနှင်အကာအကွယ်ပစ္စည်းများ	၁။ လုပ်ဝန်းစွင်ကျန်းမာရေးနှင့်စဘာအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှည်း၌အကြိမ်မြက် (က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများသို့ ကြင်းခွံ_မရှိလ်
(စ) သောက်သုံးရေ	(စ) သောက်သုံးရေ
(ယ) စစားကြောသန့်ရှင်းရောဝနစ်	$(\omega) \cos (\omega) $
(က) ရာညံသံများအခြေအခန္	(m) minter marging - 4200 000 grag 400001
(စ) အနံ့အသက်/အစိုးအငွေ့ များ	(၀) အနံအသက်/အခိုးအငွေ များ
(ဂ) လုပ်ငန်းရှင်အလင်းစရာင်	(၈) လုပ်ငန်းစွင်အလင်းရောင်
(ဃ) အမှုန်အမွှားများအခြေအနေ	(ဃ) အမှုန်အမွှားများအစခြဲအစန
(င) လေဝင်လေထွက်	(င) လေဝင်လေထွက်
၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုရက်	၃။ လုပ်ဝန်းခွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုရက် 🦳 🛛 🖓 🖓
(က) လုပ်ငန်းနှင်ကြီးကြပ်သူ (မိမိအထက်)	(က) လုပ်ငန်းစွင်ကြီးကြပ်သူ (မိမိအထက်)
(စ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)	(ခ) လုပ်တွော်တွင်တွင် (အဆင်တ)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)
၄။ သိမြားအကြံပြရက်များ 	දා කීලියකැතිවුතුරාදා
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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်တီလူးအချိမ်မှုတွက်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအဝဉ် (Environmental Management Plan – EMP) ဓနောခွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းနှင့်ထိုင်ရာ အကြံ၌ဖြေက်များရယူမြင်း	ိ Myanmar Asia Optical International Co., Ltd. ″ ၏ မှန်ဘီလူးအချိန်ရှိစေဝတ်လုပ်ခြင်းလုပ်ဝန်းအတွက် ပတ်ဝန်းကွင်စိမ်ခွေခွဲဖော် ဝန်ထမ်းများ၏ လုပ်ဝန်းခွင့်ရဘိရာ အကြံပြုမျက်များရမှာလျှော်ဦး
၁။ လုပ်ငန်းစွင်ကုန်းမာရေးနှင့်သားအန္တရာယ်တာကွယ်ရေးမာက္ကင်းများနှင့်စပ်လှည်းရှိအကြံမြရက် (က) လုပ်ငန်းစွင်အကာအကွယ်ဖွည့်များ	၁။ လုပ်ငန်းစွင်ကျွန်းမာရေးနှင့်သေးဆန္တရာယ်ကာကွယ်ရေးပဋ္ဌည်းများနှင့်စင်လျှဉ်းရှိအကြံမြရက် (က) လုပ်ငန်းစွင်အကာအကွယ်ပဋည်းများ (၈) သန့်စင်စန်းများ (၈) သန့်စင်စန်းများ (ယ) ဆေးကြောသန့်ရှင်းရေးစနစ် ၂။ လုပ်ငန်းစွင်အလုပ်လုပ်ကိုင်မူအခြာအနေအခေါ် အကြံမြရက် (က) ထွင်သံသူမားအခြေအနေ
(၈) အန်အသက်/အစိုးအငွေ့မှား (၈) လုပ်ငန်းနှင်အလင်းဖရာင်	(e) အန်ဆာက်/အခိုးအခင့်များ (n) လုပ်ငန်းနှင်အလင်းမရာင် (ဃ) အမှုန်အမွှားများအခြေအနေ (ဃ) အမှုန်အမွှားများအခြေအနေ (င) လေဝင်လေထွက်
(က) လုပ်ငန်းနှင့်ကြီးကြပ်သူ (ဖိအထက်)	၃။ လုပ်ငန်းခွင် လူမှုထက်ထဲခရအခြေအနေအခေါ် အကြံပြရက် (က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်) (စ) လုပ်စော်ကိုင်ဖက် (အထင့်တူ)
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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူအချိန်ရှိထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကျင်စိမ်နေနဲ့ခွဲထာစီအဝဉ် (Environmental Management Plan – EMP) နေးကျို့ခြင်းနှင့်ပတ်သက်၍ ဝန်ထတ်များ၏ လုပ်ငန်းရင့်ရက်ခဲ့ရာ အကြုံများကျားရာရာများ။	° Myanmar Asia Optical International Co., Ltd. ″ ၏ နှန်ဘုံလူးဆရိုးရှာရှိလှာမြောက်ပွဲမှားခြေးအတွက် ပတ်ဝန်းကျင်စီခန့်ခြဲနေခဲ့နဲ့တစ်ဆုံဝွင် (Environmental Management Plan – EMP) နေမုဆုံခြင်းဆုတ်သက်၍ ဝန်ထမ်းမှုအမြောက်မှာကြေးပြားခဲ့တဲ့တဲ့ အကြောမျှင်တဲ့ အကြာမျှာရက်မှာများနိုင်ငံ
ာ။ လုပ်ငန်းစွင်ကျွန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံပြုရက်	၁။ လုပ်ငန်းစွင်ကျွန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံပြုရှက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများှိ
(စ) သောက်သုံးရေ	(a) amonation 69 005
(ဂ) သန့်စင်ခန်းများ	(ဂ) သန့်စင်ခန်းများ
(ဃ) ဆေးစကြာသန့်ရှင်းရေးစနစ်	(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်ဘိ
၂။ လုပ်ဝန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြံပြုရက်	၂။ လုဝ်ဝန်းရှင်အလုဝ်လုပ်ကိုင်မှုအခြေအခုနှအပေါ် အကြံပြုရက်
(က) ရာသံသံများအခြေအနေ	
(စ) အနံ့အသက်/အစိုးအစင္မွ များမရှိ	(က) ရည်သများအဖြေအနေ
(ဂ) လုပ်ငန်းရှင်အလင်းရောင်	(ခ) အနဲ့အသက်/အမ်းအငွေ့များ
(ယ) အမွန်အမွှားများအစြေအစနမရှိ	(ဂ) လုပငန်းမိုင်အလင်းကြောင်မိမိ (ယ) အမွန်အမွှားများအခြေအနေမိမိ
(င) လေဝင်လေထွက်	(ဃ) အပူနအမွှားများအခြေအနေ
	(c) സൈസ്റ്റോ
၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအရြေအနေအပေါ် အကြံပြုရုတ်	၃။ လုပ်ငန်းခွင် လူမှုဆက်ဆံရေးအခြေအနေအခပ် အကြံပြုရက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)ေကာင်
(စ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)	(a) articeton (200 m)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(၀) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်) <u>ောက်ကြက် (</u>
ငှာ သိရားအကြံပြရက်များ 	၄။ သီမြားအတြံမြရတ်များ
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လုဝ်သက်ဆက်သွယ်ရန်လိပ်စာ	လုပ်သက် နှစ် ခြ ဆက်သွယ်ရန်လိပ်စာ

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myanina ကမ္ဘာကျမှာ ကျောက္ကျမှ သားသားသားသားသားသားသားသားသားသားသားသားသားသ	ိ Myanmar Asia Optical International Co., Ltd. ပတ်ဝန်းကျင်စီခံခန့်ခွဲမှုအစီအဝဉ် (Environmental M ဝန်ထမ်းမှာအေါ် လုပ်ငန်းနှင်ဆို
၁ ရ လုပ်ငန်းနှင့် ကျန်းမာခရနှင့်စာအညွှေရာယ်ကာကွယ်ရေးမည့်မိရာနှင့်လံလူည်းခဲ့အကြောဲ့ချော် (m) လုပ်ငန်းနှင့် အေကာအဝင္ပယ်မည်းမှုမှု (m) လုပ်ငန်းနှင့် အကာအဝင္ပယ်မည်းမှုမှု (m) လုပ်ငန်းနှင့် အကာအဝန်လမ်း (m) သန့်နှင်စန်းများ (m) လုပ်ငန်းနှင့် အကာအဝန်လမ်း (m) လုပ်ငန်းနှင့် ကျန်လာနေရာလနေ (m) လုပ်ငန်းနှင့် ကျန်လာနေရာက္ခရာ (m) လုပ်ငန်းနှင့် ကျန်လာနေရာက္ခရာ (m) လုပ်ငန်းနှင့် ကြွေကျန်သူးအခြေအနေ (m) လုပ်ငန်းနှင့် ကြွေကျန်သူးအခြေအနေ (m) လုပ်ငန်းနှင့် ကြွေကျန်သူးအခြေအနေအားခဲ့အကြေချက် (m) လုပ်ငန်းနှင့် ကြွေကျန်သူးအခြေအနေအားခဲ့အကြေချက် (m) လုပ်ငန်းနှင့် ကြွေကျန်သူးအခြေအနေ (m) လုပ်ငန်းနှင့် ကြွေကျန်သူး (Bacauth) (m) လုပ်ငန်းနှင့် ကြွေကျန်သူ (Bacauth) (m) လုပ်ငန်းနှင့် ကြွေကျန်သူ (Bacauth) (m) လုပ်ငန်းနှင့် ကြွေကျန်သူ (Bacauth) (m) လုပ်ငန်းနှင့် ကြွေကျန်သူ (Bacauth) (m) လုပ်နေနှင့် ကြွေသူ (Bacauth) (m) လုပ်နေနှင့် ကြွေလျန်သူ (Bacauth) (m) လုပ်နေနှင့် ကြွေလျန်သူ (Bacauth) (m) လုပ်နောက်နိုးသား (Bacauth) (m) လုပ်နောက်နိုးသူ (Bacauth) (m) လုပ်နောက်နောက်နောက်) (m) လုပ်နောက်နောက်နောက်နောက်) (m) လုပ်နောက်နောက်နောက်နောက်နောက်နောက်နောက်နောက	 မာရိက္ကဆန္တာဆန္နာလိုက္ရန္အမ်ားလို႔နားလိုင္ရန္အသိတ္လဲ၊ (က) မာရိက္ကေလာက္ကဆက္လာလိုက္လာလိုက္လာလို (က) မာရိက္ကဆန္တာလိုက္လာလိုက္လာလို (က) မာရိက္ကဆန္နာလိုက္လာလိုက္လာလိုက္လာလို (က) မာရိက္ကဆန္နာလိုက္လာလိုက္လာလိုက္လာလိုက္လာလိုက္လာလို (က) မာရိက္ကဆန္နာလိုက္လာလိုက္လာလိုက္လာလိုက္ရတာလိုက္လာလို (က) မာရိက္ကဆန္နာလိုက္လာလိုက္လာလိုက္ရတာလိုက္လာလိုက္လာလိုက္လာလိုက္လာလိုက္လာလိုက္လာလိုက္ရတာလိုက္လာလိုက္လာလိုက္ရေကာင္စားသူလိုက္ရေကာင္စားသူလိုက္ရေကာင္စားသူလိုက္ရေကာင္စားသူလိုက္ရေကာင္စားသူလိုက္ရေကာင္စားသူလိုက္ရေကာင္စားသူလိုက္ရေကာင္စားသူလိုက္ရေကာင္စားသူလိုက္ရေကာင္စားသူလိုက္ရေကာင္စားသူလိုက္ရေကာင္စားသူလိုက္ရေကာင္စားသူလိုက္ရေကာင္စားသူလဲ (က) မာရိက္အဆက္ကေကာင္စားလဲကိုက္ရေကာင္စားသူလိုက္ရေကာင္စားသူလဲ (က) မာရိကာနာကိုက္ရေကာင္စားလိုက္ရေကာင္စားသူလိုက္ရေကာင္စားလာလိုက္ရေကာင္စားလိုက္ရေကာင္စားလိုက္ရေကာင္စားသူလဲ (က) မာရီကာနာကာမိုက္ရေကာင္စားသူလဲကာနဲ႔ အလက္ရက္ေတာ့ (က) ကားသူတာနာရဲ့အလက္ရွိေကာင္စားလိုက္ရေကာက္ကေတာ့ ကိုကားလိုကာလိုက္ရေကာက္ကေကာင္စားလဲကာလဲကာလဲကာလဲကာလဲကာလဲကာလဲကာလိုကားလဲကားလိုကာလိုကာလဲကာလဲကာလဲကာလဲကာလဲကာလဲကာလဲကာလဲကာလဲကာလဲ
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ကို	ဝန်ထမ်းများ၏ လုဝ်ငန်းခွင်ဆိုင်ရာ အကြံပြုချက်များရယူခြင်း
ာ။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်သေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လူဦး၍အကြံပြုရှက်	ာ၊ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လူဦး၍အကြံပြုရှက်
(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ <u>၊ ကက်ဆီစား၊ Minck၊ မျှက်မှာကျ</u> ော်	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ
(၈) သောက်သုံးရေ	(ခ) သောက်သုံးရေ
(c) သန်စင်ခန်းများ	(ဂ) သန့်စင်ခန်းများ
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်
၂။ လုပ်ငန်းစွင်အလုပ်လုပ်ကိုင်မှုအခြေအခနအပေါ် အကြံမြုံရက်	၂။ လုဝ်ငန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအခေါ် အကြံပြုရက်
(m) ဆည်သံများအခြေအနေ	(က) ဆူည်သံများအခြေအနေ
(၈) အနံအသက်/အစိုးအငွေ့များ	(စ) အနံ့အသက်/အစိုးအငွေ့ များ
(n) လုပ်ငန်းစွင်အလင်းစရာင်	(ဂ) လုပ်ငန်းစွင်အလင်းရောင်
(ယ) အမှန်အမွှားများအရေအနေ	(ယ) အဖူန်အမွှားများအခြေအနေ
(c) လေဝင်လေထွက်	(င) လေဝင်လေထွက်
၃။ လုပ်ငန်းရှင် လူမှုလက်လံရေးအခြေအနေအခပ် အကြံပြုရက်	၃။ လုပ်ငန်းနွင် လူမှုဆက်ဆံရေးအခြေအနေအခပါ အကြံပြုရက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)
(စ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)	(ခ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)
ငှာ သီမြားအကြံမြရတ်များ	၄။ သိရြာအတိပြရက်များ
Norwash	

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ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအအိုးမိုးတုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ယတ်ငန်းကုန်ပီမံနေနဲ့ခွဲဖားစာ ဘို့တွေကြေးmommental Management Plan – EMP) ခုနေခဲ့ခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းနှင့်ဆိုင်ရာ အကြံပြုချက်များရယူမြင်း	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအခရိုးမိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအဝတ္တက် ပတ်ဝန်းကျင်ပီမံရန့်ခွဲမှုဆစီအစဉ် (Environmental Management Plan – EMP) နေနော့်မြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းမှား၏ လုပ်ငန်းနှင့်ထိုင်ရာ အကြံပြုရက်များရလူမြင်း
၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှုဉ်းရှုံအကြံပြုချက်	ာ၊ လုပ်ငန်းခွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှုဉ်း၍အကြံပြုရုက်
(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ
(က) လုံဝင်နှင့်အေကာအကွယ်စဉ်သူများ (စ) သောက်သုံးရေ	(a) approprises <u>(1.2.5</u>
(စ) သောကသုံးရေ	(ဂ) သန့်စစ်ခန်းများ
(ဂ) သန္နစ္စင်ခန်းများ	(ဃ) ဆေးကြောသန့်ရှင်းရေးစနစ်မှ
၂။ လုပ်ငန်းစွေအလုပ်လုပ်ကိုင်မှုအခြေအခန့်အခမ် အကြံမြရက်	၂။ လုပ်ဝန်းရွှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြံမြူရက်
၂။ လုတ်နားမှုအေးလုတ်လုတ်ကမ္ဘာအမြာအနေးသမားအတိအကြများ။ (က) ရာညံသံများအစရြာအနေ	(က) ရာသံသံများအခြေအခန္
	(a) အန်အသက်/အစိုးအငွေ့များ
(စ) အနဲ့အသက်/အစိုးအခွေ့များ	(n) wickies 30,0251692 J (J 222)
(၈) လုဝ်ငန်းစွင်အလင်းရောင်	(ဃ) အမှုန်အမွှားများအခြေအနေ
(၈)) ဗုန္နမ်ားမွားများအားခြဲအနေမြို	(င) လေဝင်လေထွက်
(c) လေဝင်လေထွက်	
၃။ လုပ်ငန်းနှင့် လူမှုဆက်ဆံရေးအရေအနေအပေါ် အကြံပြုရက်	၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအခပါ် အကြံပြုချက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)ြကာငြင်
(a) Wesser (2200 (200 (200 (200 (200 (200 (200 (2	(စ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)
(a) సినియాగంకూ (పెమిర్లు)	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)င်္ဖကာင္
ငှာ သံရြာအတြံမြရတ်များ	දා න්දිාකතිවුදහනුස
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χδωνη <u>5 46003</u> ωνταγγράφιας <u>106</u>	လုပ်သက်ာ.စိုစာက်သွယ်ရန်လိပ်တမြင် လာ ဒို. စက် မွှတ်
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ိ Myanmar Asia Optical International Co., Ltd. ″ ၏ မှန်ဘီလူးအချိုးမြီးတုတ်လုပ်ခြင်းလုပ်ငန်းအတွတ် ပတ်ဝန်းတွန် ပိန်ခွဲနဲ့ခြ ဲတွေပြီ (Environmental Management Plan – EMP) မရေးချဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၍ လုပ်ငန်းခွင်ရတိုင်ရာ အကြီး၍ကွေးရားမလေးများချင်း	ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအခိုးမို့ဆုတ်လုပ်ခြင်းလုပ်ငန်းအဝဒွက် ပတ်ဝန်းကူဝိစီမံနေခွဲခဲ့အစီအဝဉ် (Environmental Management Plan – EMP) နေးဆွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းမှာ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံမြေရက်မှားရေးမြင်း
ာ၊ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှုဉ်း၍အကြံပြုရက်	၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံပြုမျက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းခင်အကာအကွယ်ပစ္စည်းများ
(ခ) သောက်သုံးရေ	(a) comparison (c) 025
(ဂ) သန့်စင်ခန်းများ	(a)
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်
က်ရာမြက်လေးနေစရောခြစစာမှုသိုလ်လူလွှေနေအပြောက်	၂။ လုဝ်ဝန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအခေါ် အကြံပြုချက်
(m) ဆည်သံများအခြေအနေ	() [[] [] [] [] []
(၈) အနံ့အသက်/အစိုးအငွေ့များ	(က) ရာညသများအဖြဲ့အစန္းမာ နာ နာ ဆန္ အသက္ က က ရ ရ ရ
(၃) အနိုးအသက္ အမ်ိဳးအဝင္ များ	(a) အနာသက်အမှာအရှေ့များ က က က ရောက်ရှိသည်။ (n) လုပ်ငန်းရွှင်အလင်းရောင်
(၈) လုပ်ငန်းရှိအေလင်းရောင်	(ဂ) လုပင်န်းနိုင်အလင်းရောင်
(ယ) အပိုန်အမွှားများအခြေအနေ	(ယ) အမွန်အမွှားများအစြေအနေ
(င) လေဝငလေထွက်	$(c) \circ cococococococococococococococococococ$
၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအဝေါ် အကြံပြုရက်	၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအခပ် အကြံပြုချက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)ြေကာင်ငှ
(စ) လုပ်ဖော်ကိုင်ဖက် (အဆင်တ)	(ခ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်) <u>၆.ကာင်</u>	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)
රූ කුළිකරෝල්ල් හරුන්ත	ငှမ သိဖြာအကြိမ်ရာများ
လက်မှတ် မြို့ သာသည် Ma မြို့ရ မြို့မှာ မြို့သည် နိုင်ငံသားစစ်စေရာမ္မာတ် စဉ်းသားရင်း ၁၂၀၄၀ ရန်းနဲ့ ၁၀ ၀၄၇ ၈၇၇ ၉၇၉ ၅ ရန် လုပ်သက် မြန်နောမ္မတ် ဖြစ်သားရန်လိုင်း ၁၂၀၄၀ ကို ရန်းနဲ့ ၁၀ ၀၄၇ ၈၇၇ ၉၇၉ ရန် လုပ်သက် မရှိန် စာက်သွယ်ရန်လိုင်းစာ သင်လားရဲ့ကြောက်	လက်မှတ် သေမီ ကြေးသားစစ်ရေးအမှတ် ရာကို အနိုင်သားစစ်ရေးအမှတ် ရာကို ရက်နေရာက် ရာကို ရက်နေရာက် ရာကို ရာကို ရာကို ရက်နေရာက် ရာကို ရာကို ရာကို ရက်နေရာက် ရက်နေရာက် ရာကို ရက်နေရာက် ရက်နေရာက် ရာကို ရက်နေရာက် ရက်နောက် ရက်နေရာက် ရက်နေရာက် ရက်နောက် ရကာကာကား ရကာကာကာကာကား ရက်နောက် ရကာကား ရကာကာကာကား ရကာ

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၁။ လု ပ်ငန်းစွင်ကျွန်းမာခရေးနှင့်ဘေးအန္တရာယ်ဘာကွယ်ရေးမဋ္ဌည်းများနှင့်စင်လှည်း၍အကြံပြဲမျက် (က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ မို (စ) သောက်သုံးရေ
(ယ) စစားကြောသန့်ရှင်းအစုစနစ်ကေသခြင်
(၀) အန္ဒဒ်ဘာ() အနားမှ နေရ (၈) လုပ်ငန်းနှင့်အလင်းရောင်
(က) လုပ်ငန်းစွင်ကြီးကြပ်သူ (မိမိအထက်)
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၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုရှက်	ာ။ လုပ်ငန်းရှင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုရှက်
(က) လုပ်ငန်းခင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ
(e) exproving 32 62 6	(စ) သောက်သုံးရေ
(၇) သန်စင်ခန်းများ	(ဂ) သန့်စင်ခန်းများသိန်
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်ေကာင်န	(ဃ) ဆေးစကြာသန့်ရှင်းရေးစနစ်သန်
၂။ လုပ်ဝန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအခပ်၊ အကြံပြုရှက်	၂။ လုပ်ငန်းစွင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြံမြရက်
(က) ထုည်သံများအစြေအနေ	(က) ဆူညံသံများအရြေအနေ
(၈) အန်အသက်/အမ်ိဳးအငွေ များ	(စ) အနံအသက်/အရိႈအငွေ့များ
(၀) လုပ်ငန်းစင်အလုပ်အရာင်	(ဂ) လုပ်ငန်းနွင်အလင်းစရာင်
(ဃ) အမန်အမားများအခြေအနေ မြှ	(ယ) အမှုန်အမွှားများအခြေအနေ
(c) လေဝင်လေထွက်	(c) လေဝင်လေထွက်
၃။ လုပ်ငန်းရှင် လူမှုဆက်ဆံရေးအခြေအနေအခေါ် အကြံပြုရှက်	၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြရက်
(က) လုပ်ငန်းစွင်ကြီးကြပ်သူ (မိမိအထက်) <u>ေကာင်</u>	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)
(గి) (భురు జ్యంగ్రమ్మార్ భ (తిలుజరు)) (ల) గురంభుగ్రోరంగు (జంజర్తర్శ)	(ခ) လုပ်တော်ကိုင်ဗက် (အဆင့်တူ)
(၈) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)- <u>ေကာင်</u>	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်) ၆.ဘာ ၆.2
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ပတ်ဝန်းကျင်စီပံခန့်ခွဲမှုအစီအစဉ် (Environmental Management Plan – EMP) ခုရာဆွဲခြင်းနှင့်ပတ်သက်၍	ပတ်ဝန်းကျင်စီပံခန့်ခွဲမှုအစီအစဉ် (Environmental Management Plan – EMP) ရေးဆွဲခြင်းနှင့်ပတ်သက်၍
ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုချက်များရယူခြင်း	ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုချက်များရယူခြင်း
ာ၊ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုချက်	၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှုင်း၍အကြံမြူရုတ်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများမားရာ	()
(စ) သောက်သုံးရေ	(a) and a mar and a
(ဂ) သန့်စင်ခန်းများ မာ ၁ ၁ ရှင် i	(စ) သောကသုံးမေ (၈) သန့်စင်ခန်းများ
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်မှ	(ဂ) သန္နဝငခန်းများ
	(ယ) ဆေးကြောသန္ရရှင်းရေးစနစ်
၂။ လုဝ်ဝန်မစ္စင်အလုဝ်လုဝ်ကိုင်မှုအခြေအခန္ အပေါ် အကြံပြုရက်	၂။ လုပ်ငန်းစွင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြံပြုရှက်
(က) ရာညံသံများအခြေအနေ	(က) ရည်သများအခြေအနေဆိသသို. နာသင်နိ
(စ) အနံအသက်/အခိုးအငွေ့ များ	(စ) အနံ့အသက်/အစိုးအစငွ များ
(ခ) အန်အသက္က၊အစုံးအငွင့်များ	(ဂ) လုပ်ငန်းရှင်အလင်းခရာင်
(ဃ) အမှုန်အမွှားများအစစြအစန	(ယ) အမှုန်အမွှားများအခြေအနေ
(c) လေဝင်လေထွက်	(င) လေဝင်လေထွက်
၃။ လုပ်ငန်းရှင် လူမှုဆက်ဆံရေးအရေအနေအပေါ် အကြံပြုရက်	
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)မော်သင်	၃။ လုပ်ငန်းနွင် လူမှုဆက်ဆံရေးအခြေအနေအဝေါ် အကြံပြုရွက်
(ခ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)	(က) လုပ်ငန်းစွင်ကြီးကြပ်သူ (မိမိအထက်)မြို
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)ကခူ ညီ	(စ) လုပ်ဖော်ကိုင်ဗက် (အဆင့်တူ)
And a second	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)မမြ
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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအခရိုးရှိမှုရှိတွေတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကွန်ပီနေနို့နဲ့မအိန္ဒလှည် (Environmental Management Plan – EMP) ရေးနဲ့ခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းနှင့်ရဲဘိုင်ရာ အကြံပြုမျက်များရသူခြင်း	ိ Myanmar Asia Optical International Co., Ltd. ″ ၏ မုန်ဘီလူအခရီးမိုးထုတ်လုပ်ဖြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကူင်မိမ်နေနဲ့ခွဲမှာတီစဉ် (Environmental Management Plan – EMP) နေးလွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းမှာ၏ လုပ်ငန်းစွင်ဆိုင်ရာ အကြံဖြေကျော်များရပူခြင်း
ခ လုပ်ငန်းနှင့်ကျန်းမာခရမှန်အားဆန္တရာယ်ကာကွယ်ရေးမှုနှင့်မိမာမှန်လိုလူမှုိး၍အကြံမြရက် (က) လုပ်ငန်းနှင့်အကာအကွယ်စစ္စည်းများမိုက် (ခုန် + -န်) (ကြ ပ်	a လုပ်ငန်းနှင်အနှိမာနေနနှင့်အောအန္တရာယ်ဘာတွယ်နေမာ့မွည်များနှင့်စပ်လှည်းရှိအကြံမြရာက် (က) လုပ်ငန်းနှင်အကာအကွယ်ဖစ္စည်းများ မေပို ပါ (စ) သောက်သုံးရ
ငှာ သိမြားအကြံပြရတ်များ	ද්ද කුළිකරුල්ල්දරුණා (1) දරාකතාවන්තා (කාලාකතාව)
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Green Myanmar Environmental Services Co., Ltd No115, Kanaung Min Thar Gyi Road, Industrial Zone (1), Hlaing Thar Yar Industrial City,	Green Myanmar Environmental Services Co., Ltd No.115, Kanaung Min Thar Gyi Road, Industrial Zoren (1), Haing Thar Yar Industrial Crity. Yarmoon, Warmar
Yangon, Myanmar Tel: 09 897 978 296, 09-508151 E-mail: gmescompany@gmail.com, info@gmes-mm.com " Myanmar Asia Optical International Co., Ltd. " ຄັ້ ອຸຊີ-ລົງແລະຊີເຊີຍແດງລົງແມ່ງ ເຊິ່ງເລີຍ ເມລິດເຊັ້າເຊັ້າເຮັດເຊັ້າເຊັ້າເຮັດເຊັ້າເປັນເປັນເປັນເປັນເປັນເປັນເປັນເປັນເປັນເປັນ	Tel: 09 897 978 296, 09-5081451 E-mail: <u>gmercompany@gmail.com, info@gmes-mm.com</u> [*] Myanmar Asia Optical International Co., Ltd. " ၏ မှန်တီလူအာဒီဖို့မျိစတွတ်လုပ်ခြင်းလုပ်ငန်းအာတွက် ပတ်ဝန်းကူင်စီပံဝန်ခွဲပွဲအစီဆစဉ် (Environmental Management Plan – EMP) နေးဆုံခြင်းမှန်ပတ်သာက်၍ ဝန်ထတ်မဟူး၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုံမျက်မှားရေးမျှင်ခံ ဝန်ထတ်မဟူး၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုမျက်မှားရေးမျှင်ခံ ဝန်ထတ်မဟူး၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုမျက်များရေးမျှင်ခံ လူ လုပ်ငန်းခွင်ကျွန်းမာအရေးနှင့်ထေးအချွှန်တဲ့သေးဘူလုပ်ချေးမျှင်ခံ (၁) လုပ်ငန်းခွင်ကျွန်းမာအကျော်များကို (၁)
(စ) သောက်သုံးရေ	(a) awnhatrag (b) awhatrag (c) what a start of the star
(ဂ) သန့်စင်နန်းများ	(ဂ) သန့်စင်ခန်းများ
၂။ လုပ်ငန်းနှင်တြာအနေအခေါ် အကြံမြားကို မြောက် (က) ရာည်သံၾးအခြေအနေ (e) ဆန်အသက်/အနီအခဋ္ဌ.များ (e) လုပ်ငန်းနှင်တာလင်းရောင် (c) ခလဝင်လေထွက် ၃။ လုပ်ငန်းနှင်ကြီးကြားသူ (မိင်အထက်) (က) လုပ်ငန်းနှင်ကြီးကြားသူ (မိင်အထက်) (e) လုပ်ခော်ကိုင်ဖက် (မိင်ခလက်ဘောက်)	။ လုပ်ငန်းနှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအခေါ် အကြံပြုရက် (က) ရာညံသံများအခြေအနေ (၂) (ခ) အနွံအသက်/အစိုးအခဋ္ဌ ရာ (ခ) လုပ်ငန်းနှင်အလင်းရောင် (၂) (က) လုပ်ငန်းနှင်ကြိုးကြင်သူ (ဒီရိအသက်) (၂) (င) လေဝင်လေထွက် ၃။ လုပ်ငန်းနှင်ကြိုကြင်သူ (ဒီရိအသက်) (၂) (က) လုပ်ငန်းနှင်ကြိုကြင်သူ (ဒီရိအသက်) (၂) (က) လုပ်အောက်ခိုင်စက် (အဆင့်တူ) (၂) (က) လုပ်အောက်ခိုင်စက် (အဆင့်တူ) (၂) (က) လက်အောက်ခန့်ထမ်း (ဒီရိသက်အောက်)
၄။ သီမြားအကြံပြရက်များ 	၄။ သီမြားအကြံပြဲရတ်များ
 Nohyob No. No. May Thatin Diyo grs. GG grs. GG grs. GG grs. GG 	స్టర్లు స్టర్లం కార్ట్ కర్రము స్టర్లు స్టరులు స్టర్లు స్టరులు స్టర్లు స్టరులు స్ స్టరులు స్టరులు స

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ပတ်ဝန်းတခွင်စီနေနဲ့ခဲ့သာစီသေစုဦ (Environmental Management Plan – EMP) နေရာခွဲခြင်းနှင့်ပတ်သက်၍	ပတ်ဝန်းတူခိုဝိစ်ဝန်နိုဒ္ဒမူအစီအဝဉ် (Environmental Management Plan – EMP) မေမ့ခြင်းနှင့်ပတ်သက်၍
ဝန်ထမ်မှာစာ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံမျှရက်မှားရပျှမြင်း	ဝန်ထစ်များ၏ လုပ်ငန်းနှင့်ရှင်ခွင့်ရာ အကြံပြုံရက်ရှားရယူခြင်း
ခ၊ လုပ်ငန်းစွင်အနန်းမာရေးနှင့်ဆေးဆန္တရာယ်ဘာကွယ်ရေးပစ္စည်းများနှင့်စပ်လူဦးရှိအကြံမြရက်	၁။ လုပ်ငန်းနှင်ကျွန်းမာရေးနှင့်ခဘးအန္တရာယ်ကာကွယ့်ခရာမတ္ဆည်းများနှင့်ဝင်လည်းရှိအကြံမြရက်
(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများမိ	(က) လုပ်ငန်းနှင့်အကာအကွယ်ပစ္စည်းများ ⁹⁶ ျှ
(စ) ဆာက်သုံးရေ	(ခ) သောက်သုံးရေ
ျာ လုပ်ငန်းနှင့်အာလုင်လုပ်ကိုင်မှုအာခြေအာနေအာမ်၊ အကြံမြနက်	၂။ လု င်ငန်းစွင်အလုပ်လုပ်လိုင်မှုအခြေဘနေအဝ ါ အကြံမြူရက်
(က) ရာညံသံများအခြေအခန္	(က) ရာလုံသံများအခြေဘနန
ခု လုပ်ငန်းနှင့် လူမှုထက်ထဲရေးအခြေအနေအခဒါ အကြံပြုရက် (က) လုပ်ငန်းနွင်ကြီးကြပ်သူ (စိမိအထက်) အကြံပိုင်မြေ (ခ) လုပ်ဖော်ကိုင်ဖက် (အထင့်ဘူ) ကို အဆိုသင့်ငရို (၈) လက်အောက်ဝန်ထမ်း (ဖိမိလက်အောက်) ကြောင့် ငှာ သိခြာအခကြံပြုရက်ရှား	၉။ လုပ်ငမ်းစွင် လူမသက်သံရေးသပြောသနေသမပ်၊ အကြံပြရက် (က) လုပ်ငမ်းစွင်ကြီးကြပ်သူ (မိမိအထက်)
Ουτορο Π ορομ Οξουλι συμδ Γιαμ Κμι 994 CG. βέδωπιδοδοφιαιμο ζ./.2000 (je.) 20[9.9 94.405 0940270 43566 γδωτή 1.35 συταχωθηδούσματος συταχωθηδούσματος	Nobyod - Huin wody - Huin Physe wody - Huin Physe &Ecombologramyod 25 Island & 25 Island

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ပတ်ဝန်းတွင်မံစန့်ခွဲမှုအဝီအဝဉ် (Environmental Management Plan – EMP) ရောခွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုဝ်ငန်းခွင်ဆိုခြင်းခုတ်တိုင်ရာ အကြံပြုရက်များရသူခြင်း	ပဘိဝန်းတဦလိမ်းနိုင်ခဲ့သားသားသားသားသားသားသားသားသားသားသားသားသားသ
၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်သေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်းရှိအကြံပြုရက်	၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှူဦးချ်အကြံပြုချက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ ^{သေ} ြ	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ
(စ) သောက်သုံးရေ	(စ) သောက်သုံးရေ စာန် (() သုံးနို () () ()
(ဂ) သန့်စင်ခန်းများခေဒာန်	(ဂ) သန့်စင်ခန်းများ
(ဃ) ဆေးစကြာသန့်ရှင်းရေးစနစ်မှိ	(ဃ) ဆေးကြောသန့်ရှင်းရေးစနစ်
၂။ လုပ်ဝန်းစွဝ်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြံပြုရက်	၂။ လုပ်ငန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြံပြုရွက်
(က) ရာသံသံများအခြေအခန္္ပါ	and a start and a start and a start a st
(စ) အန္ဒံအသက်/အနီးအငွေ့များ	(က) ရာညသများအခြေအခန္
(၇) လုပ်ငန်းစင်အလင်းရောင်ေကာင်	(၇) လုပ်ငန်းစင်အလင်းရောင်
(ဃ) အမွန်အမွှားများအစစြအနေ ^{အရွှ}	(ယ) အမွန်အမှားများအရှေအနေ
(င) လေဝင်လေထွက်ဆောာင်း	(င) လေဝင်လေထွက် (ကာဝမ်းမိတား၁ဉ်
၃။ လုပ်ငန်းရှင် လူမှုဆက်ဆံရေးအခြေအနေအခပါ အကြံပြုရှက်	၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေအခြေအနေအပေါ် အကြံပြုရှက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)ေကာင်	(က) လုပ်ငန်းခင်ကြီးကြပ်သ (နိုန်အတွက်)
(ခ) လှပ်ဖော်ကိုင်ဖက် (အဆင်တ)	(ခ) သမ်း၏ကိုင်ဖက် (အဆင်က)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)၆ကာဝင်	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)
പ്രസ്ത്രാസ്ത്രിന്റെക്ക പ്രസ്ത്രാസ്ത്രിന്റെക്ക	දා කුළියකලාලිම් හදාසා
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දුනු	အမည်ဆိုးသည့္အထန္သ
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လုပ်သက် ဆက်သွယ်ရန်လိပ်စာ	လုပ်သက် ဆက်သွယ်ရန်လိပ်တ မင်္ဂသာ ခို

Green Myanmac Environmental Services Co., Ltd No.115, Kanaung Min Thar Gyi Road, Industrial Zone (1), Hlaing Thar Yar Industrial City. Zangon, Myanmar Te: 09 807 978 296, 09-5081451 E-mail: generomparv@gmail.com.info@gmes-mm.com Myanmar Asia Optical International Co., Ltd. * of uff-20-228-240-2000 Colored States Colored	Myanmar Asia Optical International Co., Ltd. * هَ فَهُ فَمُ مُوْمُ مُوْمُ مُوْمُ وَالْمُعْمَاتُ مُوْمُ وَالْمُوْمُ ْمُ وَالْمُوْمُوْمُ وَالْمُوْمُوْمُ وَالْمُوْمُوْمُوْمُوْمُوْمُوْمُوْمُوْمُوْمُو
၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှည်းရှိအကြံပြုရက်	၁။ လုပ်ဝန်းစွင်ကျွန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှုဉ်း၍အကြံမြုံမျက်
(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ
(၈) သောက်သုံးရှေ	(၈) သောက်သုံးရေ
(၈) သန့်စင်စန်းများ	(ဂ) သန့်စင်ခန်းများ
(က) သန္နာလနေရရှိသ (ယ) ဆေးကြောသန့်ရှင်းခရာစနစ်	(ဟ) ဆေးကြောသန့်ရှင်းရေးစနစ်
၂။ လုပ်ငန်းစွင်အလုပ်လုပ်ကိုဝ်မှုအစခြေအနေအခပါ အကြံပြုရှက်	၂။ လုဝ်ဝန်းစွင်အလုပ်လုပ်ကိုဝ်မှုအခြေအနေအခေါ်အကြံပြုချက်
(က) ထူညံသံများအစြဲအခန္	(က) ဆူည်သံများအခြေအနေ
(စ) အနံ့အသက်/အခိုးအငွေ့များ	(ခ) အနံအသက်/အစိုးအဝဠ များ
(၈) လုပ်ငန်းနှင်အလင်းရောင်	(၈) လုပ်ငန်းစွင်အလင်းရောင် <u>ဂြံ ကျာက္ သခုဒ်</u>
(ယ) အမှုန်အမွှားများအခြေအနေ	(ယ) အမွန်အမွှားများအခြေအနေ
(င) လေဝင်လေထွက်	(c) လေဝင်လေထွက်
၃။ လုပ်ငန်းရှင် လူမှုဆက်ဆံရေအခြေအနေအခပါအကြံပြုချက်	၃။ လုပ်ငန်းရှင် လူမှုထက်ထဲရေးအခြေအနေအပေါ် အကြံပြုရက်
၃။ လုပ်ငန်းနှင့် ကိုမှုသက်ဆမ်းအမြေအနေအမပဲ အကျံပျွမျက် (က) လုပ်ငန်းနှင့်ကြီးကြင်သူ (မိမိအထက်)	၃။ လုံထန်းမှင် လူမှုထားသမန်အမြန်မန်းအမ်၊ အကြံမျက် (က) လုပ်ငန်းနှင်ကြီးကြပ်သူ (စိမိအထက်)
(က) လုပ်ငန်းနှင့်ကြားကပ်သို့ (မေအထက်) (စ) လုပ်ဖော်ကိုင်ဗက် (အထင့်တူ)	(ఐ) గుంజాపర్షించి, (ఇంజర్లయ)బ్రులు కార్టులు కార్టులు కార్టులు కార్టులు కార్టులు కార్టులు కార్టులు కార్టులు (ఐ) గుంజాపర్షించిన (ఇంజర్లయ)బ్రులు కార్టులు కార్టులు కార్టులు కార్టులు కార్టులు కార్టులు కార్టులు కార్టు
(စ) လုပ်ဖောက်င်ဖက (အဆင့်တူ)	(စ) လုပ်ဗောကိုင်ဖက (အဆင့်တူ) (ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)်က်	(ဂ) လက်အောက်ဝန်ထမ်း (မလေက်အောက်)
දා තුලාකල්ටුත්රාත්ත 	၄။ သိမြားအကြံပြရတ်များ
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ပတ်ဝန်းကျင်ပီပံနေနဲ့မှုအဗီအဝဉ် (Environmental Management Plan – EMP) နေးခဲ့ခြင်းနှင့်ပတ်သက်၍	ပတ်ဝန်းကွခ်င်မိစ်နေခြံထုတ်နို့ထာမိအစဉ် (Environmental Management Plan – EMP) ရေးစုန်ခြင်းနှင့်ပတ်သက်၍
ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်ထိုင်ရာ အကြံပြုရက်းမှားရဟူဗြိင်	ဝန်ထမ်းမှား၏ လုပ်ငန်းနှင့်ဆိုင်ရာ အကြံမြရက်များရသူမြင်
a လိုင်ရန်စွင်အနီးမာခေနနှင့်သေးဆန္တနာသီဘက္ကလွယ်ရေးပန္လည်းများနှင့်လိုလည်းရှိအကြံမြရာက် (က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ (ဆ) သောက်သုံးခရ (သ) ဆန်စင်ရန်းများ (သ) ဆားစကြာသန့်ရှင်းရေးပနစ် ကိုက်ခန့်စွင်အလုပ်ကုပ်ကိုပ်ရာထာရြအာနန (က) လူည်သမ္မာအစြေအခန (က) လုပ်ငန်းစွင်အလင်းရာင် (သ) ဆန်အသူးများအဝကြာခန (သ) သူန်အပွားများအဝကြာခန (သ) သူန်အပွားများအဝကြာခန (သ) သူန်အပွားများအဝကြာခန (သ) သူန်အပွားများအဝကြာခန (သ) သူန်အပွားများအဝကြာခန (သ) သူန်အပွားများအဝကြာခန (သ) သူန်အပွားများအဝကြာခန (သ) သူန်အပွားများအဝကြာခန	၁ လိုင်ငန်းနှင့်အကွန်းမာရေးနှင့်သေးအန္တရာယ်ကာကွယ်ရေမဖွင့်ပြီးများနှင့်လိုလှည့်ကိုအကြံမြူရက် (က) လုပ်ငန်းနှင့်အကာအကွယ်ဖွင့်ပြီးများ (၈) သန့်စင်ခန်းများ သင်္ကောင်ကြာသန့်ရှင်းရေးစနစ် (၈) သန့်စင်ခန်းများ သင်္ကောင်ကြာသန့်ရှင်းရေးစနစ် (ယ) စဆုံးအကွက်အစိုးအခင္မ မက် (က) ရာညံသများအခြေအခန မက် (၈) ကုပ်ငန်းနှင့်အလင်းရကွင် (၈) ကုပ်ငန်းနှင့်အလင်းရကွင် (၈) ကုပ်ငန်းနှင့်အလင်းရကွင် (၈) ကုပ်ငန်းနှင့်အလင်းရကွင် (၈) ကုပ်ငန်းနှင့်အလင်းရကွင် (၈) သန့န်အညက်ကြားအခြေအခန
ဘူး လုန်ငန်းနှင့် လူမှုထက်ထဲနေအာကြောခနအာက်အကြံပြုရက်	ခု လုပ်ငန်းနှင် လူမထက်ထဲရေအခြေအနေအမပါ အကြံမြရက်
(က) လုန်ငန်းနှင့်ကြီးကြင်သူ (စိစိအထက်)	(က) လုပ်ငန်းနှင်ကြီးကြပ်သူ (မိမိအထက်)
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ပတ်ဝန်းကွမ်စီမံနန့်ခွဲထာစီအဝဉ် (Environmental Management Plan – EMP) ခုနောန်ခြင်းနှင့်ပတ်သက်၍	ပတ်ဝန်းတွင်မိဖန်နွဲမှုအဝီအဝဉ် (Environmental Management Plan – EMP) ရေးဆွဲခြင်းနှင့်ပတ်သက်၍
ဝန်ထမ်များ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံမြူရှက်များရပုံမြင်း	ဝန်ထမ်းမှာ၏ လုပ်ငန်းနှင့်ကိုင်ရာ အကြံပြုံချက်များရယူမြင်း
အ လုပ်ငန်းစွင်ကျန်းမာခရာနှင့်သေးအန္တရာယ်ကာကွယ်ရှောဖစ္စည်းများနှင့်စပ်ကုန်းရှိအကြံမြရက်	ခ၊ လုပ်ငန်းစွင်ကွန်းမာရေနှင့်သေးဆန္တရာယ်ကာကွယ်ရေးမည်းများနှင့်စင်လှည်းရှိအကြံပြုရတ်
(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းစွင်အကာအကွယ်ဖစ္စည်းများ
၂ လုပ်ဝန်မှင်အလုပ်လုပ်ကိုင်မှုအားြေအာနေအာမ်၊ အကြံမြူမျက်	၂။ လုပ်ငန်းမွင်အလုပ်လုပ်လိုင်မှုအခြေအနေအားမိအကြံမြဲရက်
(က) ရာညံသံများအားခြေအနေ	(က) ရာညံသံများအခြေအနေ
ని గురింహింది సామాని br>సామాని సామాని br>సామాని సామాని	၃။ လုပ်ငန်းစွင် လူမှုထက်ဆံရေအမြောစနအအဒါအကြံမြဲရက် (က) လုပ်ဆန်ကြီးကြပ်သူ (၆၀ီဆထက်)
၄၊ သမြားအကြိမြရက်များမှု မြို့မြို့	၄၊ သိမြားအကြိမြရတ်များ
సాహారా సంజాని సినిమా సిన సినిమా సినిమా సినమా సినిమా సినిమా సినిమా సినిమా సినమా సినిమా సినిమా సినిమా సినిమా	005405

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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအခရိုးရှိထုတ်လုပ်ခြင်းလုပ်ငန်းအဝဂ္ဂတိ	" Myanmar Asia Optical International Co., Ltd. " ၏ မုန်ဘီလူးအာမျိုးမြိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအဝတ်က
ပတ်ဝန်းကျင်စီမံမန့်ခွဲမှုအစီအစဉ် (Environmental Management Plan – EMP) နေမုဆိုခြင်းနှင့်ပတ်သက်၍	ပတ်ဝန်းကျင်ဗိမ်မန်းခွဲအစီအစဉ် (Environmental Management Plan – EMP) ရေးချဲခြင်းနှင့်ပတ်သက်၍
ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံဖြေရက်မှားရေးမှုခြင်း	ဝန်ထမ်းများ၏ လုပ်ငန်းနှင့်ပီထိုင်ရာ အကြံမြို့ရက်များရလူမြင်း
၁။ လုပ်ငန်းနှင်ကျွန်းမာနေနှင့်သေးအန္တရာယီတာကွယ်ရေးပတ္တည်းများနှင့်စပ်လှည့်၍အကြံမြရာကိ	အ လုပ်ငန်းခွင်အနီးမာရေးနှင့်သေးအန္တရာယီဘာကွယ်ရေးပဋ္ဌည်းများမှင့်စပ်လှူဦး၍အကြိမြဲရက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ဟွည်းများ	(က) လုပ်ငန်းခွင်အဘာအကွယ်ပဋ္ဌည်းများဆိုင်ဒါပြီးပါး
η γδοξιεγδαγγδηβόμανοβανοκ μαναξία μηθία μηδ (m) αριλού μηταιοβανοκ	ມູ ເຊິ່ງ br>(ກ) ຊາງ ເຊິ່ງ ເ (ລ) ລະເຊັ່ງ ເຊິ່ງ ເຊິ່ງ ເຊິ່ງ ເຊິ່ງ ເ (ລ) ລະເຊັ່ງ ເຊິ່ງ ເຊິ່ງ ເຊິ່ງ ເ (ລ) ລະເຊັ່ງ ເຊິ່ງ ເຊິ່ງ ເ ເຊິ່ງ ເ
၃။ လုပ်ငန်းနှင့် လူမှုထက်ဆံရေအခြေအနေအခေါ် အကြံမြရက်	၃။ လုပ်ငန်းစွင် လူမှုထက်ဆဲရေအာမြေအနေအမှု၊ အတို့ပြုံရက်
(က) လုပ်ငန်းနှင့်ကြီးကျွန်သူ (မိမိအထက်)	(က) လုပ်ငန်းစွင်ကြီးကြင်သူ (စိမ်အထက်)ကို ဖြက် နှိုးရွှောပါသည ⁵
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ား လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လူဦး၍အကြံပြုချက်	ာ၊ လုပ်ငန်းခွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုရုက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ အင်္သီသော် (ကိုအင်္သားရှိ ဆေဒု) ပြန	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ
(၃) သောက်သုံးမှေ - မက်ခွဲမှ - နစ်ကြီးရေ	(a) anonica 6.5.5 m : (3 .0 m + 6 l
(n) 20 po big: and	(n) သန့်စင်ခန်းများ <u>229 ၂</u> E
(ယ) ဆေးစကြာသန့်ရှင်းရေးစနစ်	 (n) သန်စင်စန်းများ
။ လုပ်ဝန်းရှင်အလုပ်လုပ်ကိုင်မှုအစခြေအနေအပေါ် အကြံပြုရှက်	၂။ လုပ်ဝန်းစွင်အလုပ်လုပ်ကိုင်မှုအခြေအခုနှအခပါအကြံပြုရက်
(m) major marchane	(က) ရာညံသံများအစြဲအခန
(၈) အနံအသည့္ကအန်းအဝေဒ က်န္းကြ ျပင္း နင္းစင္ကေရမ္မီ (၈) အနံအသည့္ကအန်းအဝေဒ က်န္းကြ ျပင္းစိုးစင္ကေရမ္မီ	(စ) အနံ့အသက်/အနိုးအငွေ များ
(a) and the source of the sour	(၀) လုပ်ငန်းနှင့်အလွင်းရောင်
() - Senter S	(ယ) အမှုန်အမွှားများအခြေအနေ္ဘာ ^{န်} ဖြ. ါ
(ထ) အမှုန်အမျိုးအမြေအနေ	(င) လေဝင်လေထွက်
ာ လုပ်ငန်းရှင် လူမှုရာကိုရာရေးအခြေအနေအပေါ် အကြံပြမက်	၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအခပါ အကြံပြုရက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)မိုန်မင်နို မိုက်ပါ ၁၁၃၃	(က) လုပ်ငန်းစွင်ကြီးကြပ်သူ (မိမိအထက်)
(၈) လုပ်ဖော်ကိုင်ဗက် (အဆင့်တူ)	(a) လှမ်းကိုကိုင်းကို (အဆင်က)
(ဂ) လက်အောက်ဝန်ထမ်း (ဒိမိလက်အောက်)စာဆင်မြေ	(၈) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်) – <u>၆./972 နိုး</u>
දා න්ලිපෘත්තිවුගේදා: 	၄။ ଅଭିନଙ୍କରମିଧିକୃତ୍ୟାନ
လက်မှတ် ကြောက္မ ရာထူး Manitar II	whyos MP pop: Line leader M15)
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၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုချက်	ာ၊ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံပြုရက်
(က) လုပ်ငန်းခင်အကာအကွယ်မှစည်းများ	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများမာဇ ^{ည်}
(a) comparison 69.23	(စ) သောက်သုံးရေ
(၇) သန်စင်ခန်းများ	(n) သန့်စင်ခန်းများ
(ဃ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(၀) ဆန့်လင်နန်းရှိသ (ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်
။ လုပ်ငန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအဝပ် အကြံပြုရှက်	၂။ လုဝ်ခန်မစွင်အလုဝ်လုဝ်ကိုင်မှုအခြေအနေအခပါအကြံပြုရက်
	(က) ရာသံသမားအခြေအနေ
(က) ရာညံသံများအခြေအနေ	(စ) အနံအသက်/အစိုးအဝင္ များ
(၈) လုပ်ငန်းမွင်အလင်းရောင်	(ဂ) လုပ်ငန်းမွင်အလင်းရောင်
(42) 20(152)(20005	(ဃ) အမုန်အမှားများအခြေအနေ
(င) လေဝင်လေထွတ်	(င) လေဝင်လေထွက်
ား လုပ်ငန်းစွင် လူမှုလော်ဆံရေးအခြေအနေအပေါ် အကြံပြုရှက်	၃။ လုပ်ငန်းနှင့် လူမှုဆက်ဆံရေးအခြေအခနအပေါ် အကြံပြုရက်
ခု၊ လုဝင်နန်းနှင့် လူမှုထားသင်းအမြေအမန်အပေ အကြံမျှများ (က) လုဝင်နန်းနှင့်ကြီးကြင်သူ (မိမိအထက်)	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)
(က) လုပ်နေးခွင်ကြေးကြပ်သို့ (မေအထဲက)	(၈) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)
(စ) လုပ်ဗော်ကိုင်ဗက် (အဆင့်တူ) (ဂ) လက်အောက်ဝန်ထမ်း (ဖိမိလက်အောက်)	(స) సరింతంగ్రంతంగ (పెటర్లల్లా)
(റ) സന്ഞാന്റർയല്: (ല്സേന്ങോന്)	(റ) സന്ദേജനാരുമാല: (ലൈസന്ദേജന)
၄။ သီးခြားအတြပြရတ်များ	၄။ သီးပြားအကြံပြဲမျက်များ
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Now	လုပ်သက်မို.ချစ် ဆက်သွယ်ရန်လိပ်တ မက္သေးဆိုင်း၊ ချောက်မြို့နယ

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ပတ်ဝန်းကျင်စိမ်ခန့်ခွဲမဆီအတွေ (Environmental Management Plan – EMP) နေနာ့်ခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းနှင့်ခံထိုင်ရာ အကြပြမျက်များရယူမြင်း	ပတ်ဝန်းကျင်စီမံဝန့်ခွဲမှုအစီအဝဉ် (Environmental Management Plan – EMP) ခေးဆွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းနှင်ဆိုင်ရာ အကြံပြုရက်များရယူခြင်း
ခ၊ လုပ်ငန်းနှင့်ကျန်းမာခုနေနှင့်တေးအန္တရာယ်ကာကွယ်နေမှာတွင်းများနှင့်စင်လူဦး၍အကြံပြုံမှုက် (က) လုပ်ငန်းနှင့်အကာအကွယ်ပစ္စည်းများ	ာ လုပ်ငန်းနှင့်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ကေမာင်များမှနင်မင်လူနိုင်ရှိအကြံပြရက် (က) လုပ်ငန်းနှင့်အကာအကွယ်ပစ္စည်းများမရှိသို့[
(၈) ဆနာစိစ်နာများ သင်းခြင်းသိုး အိုကောက်ခြည် (၈) ဆနာစိစ်နာများ	(၈) သန့်စင်စန်းမှူး (၈) သန့်စင်စန်းမှူး
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(၁) သနုတင်နေသူ။ (ယ) ဆေးကြောသန့်ရှင်းရေးနေစ် ⁸ ြိ
၂။ လုပ်ငရန်မှာ့စီအလုပ်လုပ်လိုတ်မှုအခြေအနေအပေါ် အကြံပြုရက် (က) ထူည်သံရာအခြေအခန	၂။ လုပ်ငန်းစွင်အလုပ်လုပ်လိုင်မှုအဝရှိအနေအဝမ် အကြာမြူရက် (က) ရာသံသံၾားအဝရ်အနေ
(စ) အနံ့အသက်/အစိုးအခဋ္ဌ များ ၂ ဆိုဒ် (၈) လုပ်ငန်းစွင်အလင်းရောင်	(စ) အနံ့အသက်/အန်းအငွေ များ
(၈) (လုပ်မှာနောက်များအားခြဲအားနေ	(ဂ) လုပ်ငန်းနှင်အလင်းရောင်
	(င) လေဝင်လေထွက်
၃။ လုပ်ငန်းနှင် လူမှုထက်ထံရေးအမြေအနေအပေါ် အကြံပြုရက် (က) လုပ်ငန်းနှင်ကြီးကြင်သူ (မိဒိအထက်)	၃။ လုပ်ငန်းနှင့် လူမှုထက်ထံရေးအခြေအနေအခက်အကြာမျက်
(စ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)	(က) လုပ်နေမ်နင်ကြီးကြင်သူ (မိမိအထက်) မြို့ချိန် (စ) လုပ်စော်ကိုင်ဖက် (အထင့်တူ) ကျော်များများကျော် ကျော်ကျော်ကျော်ကျော်ကျော်ကျော်ကျော်ကျော်
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(၈) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)
၄။ သိမြားအကြိမြရာစ်နာ	දා ක්ලියානල්ඩ්ල්රෝනා
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ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအရှိမရှိမတုတ်လုင်ဖြင်းလုပ်ငန်းအတွက် ပတ်ဝန်ကဒူင်မိပ်ခန့်ခွဲဖွားစီအဝဉ် (Environmental Management Plan – EMP) နေးဆိုခြင်းနှင့်ပတ်သက်၍ ဝန်ထစ်မဟူး၏ လုပ်ငန်းစွင်တွန်းမာခနေနှင့်တားအနေရာပ်ဘာကွယ်ရေးပဋ္ဌင်္ကားများနှင့်စင်းပူနိုး၍အကြို့ဖျက်	* Myanmar Asia Optical International Co., Ltd. * ၏ မှန်သီလူးအချိုးမို့ရာတုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ယာ်ဝန်းကွင်မိပ်ခန့်ခွဲမှုအမီအဝဉ် (Environmental Management Plan – EMP) ခရားရှိခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းစွင်ကျန်းမာခရာနှင့်ခဘားအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စင်လူဦးရုံအကြံပြုရက် (က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ
(က) လုပ်ငန်းစွင်အကာအကွယ်မည်းများ (စ) စသက်သုံးရေ	(စ) သောဂ်သုံးရေ
၂။ လုပ်ငန်းမှင်အလုပ်လုပ်ကိုင်မှုအာမြောအနေအာပါ အကြံပြုရက် (က) ရာညံသံများအာမြေအခန	ျ လုပ်ဝန်မွှစ်အလုပ်လုပ်ကိုစ်မှုအခြေအနေအာမ် အကြံ၌မူက် (က) ရာညံသံများအခြေအနေ မရှိ (၈) ရာညံသံများအခြေအနေ မရှိ (၈) လုပ်ငန်းမွှင်အလင်းစရာင်
၃။ လုပ်ငန်းနှင့် လူမှုထက်ဆံရေးအခြေအနေအခေါ် အကြံမြို့ရက် (က) လုပ်ငန်းနှင့်ကြိုကြင်သူ (ဒီဖိအထက်)	ား လုပ်ငန်းခွင် လူမှုထက်ထဲမဲအောရြအမနအာဒါ အကြံပြရက် (က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (စိစ်အထက်)စားကြီး ဖြင့်ပါးသူ့ဦး၊
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၁။ လုပ်ငန်းစွင်ကျွန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှားရှိအကြံပြုရက်	၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှုဉ်းရှုံအကြံပြုချက်
(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ
(၈) သောက်သုံးရေ အိုအော်စက် ဒို-မျှစ်မ: သောင် ဖိေး	(စ) သောက်သုံးရေစက်ရုံမှ မေးသော ဖော်
(a) sand and a star a	(n) သန့်စင်ခန်းများ
(ပ) ဆေးကြောသန့်ရှင်းရေးစနစ်ကောင်း	(ဃ) ဆေးကြောသန့်ရှင်းရေးစနစ်
၂. ပုလ်ငန်းနှင့်အားပုံလုပ်ကိုင်မှုအားရှိအားနားခေါ် အကြံမြူရက် (m) ရာညံသံများအားခြဲအားန (ခံ နှင့် (m) ရာညံသံများအားခြဲအားန (e) အန်းအသက်/အစိုးအားခွဲ, များ (m) ရာနဲ့အသွားကိုအစိုးအားခွဲ, များ (m) ရာနဲ့အသွားများအားခြဲအားန (m) အနန်းအပွားများအားခြဲအားန (m) လုပ်နော်နှင့် ကြွေထွားချားအားခြဲအားနအားခေါ် အကြော့ခြား (m) လုပ်နော်နှင့် ကြွေထွားချားရာအားခြားအားချားအားချား ကြားချား (m) လုပ်နော်နှင့်ကြီးကြား (ဖြစ်အားချား) (m) လုပ်နော်နှင့်ကြီးကြား (ဖြစ်အားချား) (m) လုပ်နော်နှင့်ကြီးကြား (ဖြစ်အားချား) (a) ကျော့ချား (b) ကျော့ချား (c) ကျော့ချား (m) လုပ်နောက်ကိုင်းက (အဆင်ကျာ) (a) ကျော့ချား (m) လျားအားကိုင်းလ (ဖြစ်လားအားကို) (m) ကျော့ချား (a) ကျော့ချား (b) ကျော့ချား (c) ကျော့ချား (m) ကျော့ချား	၂။ လုပ်ငန်းစွင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအခဒ် အကြံခြဲဖုက် (က) ရာညိသံများအခြေအနေ
ດນດົ້ນດຽ ລາຍລົງນີ້ແລະ	იორყით იი თავა იი გალა იი გ_თ იი იი _ ი. _ ი. _ ი. _ ი. _ ი. _

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" Myanmar Asia Optical International Co., Ltd. " အ် မုန်ဘီလူးအမှိုးမျိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက်	" Myanmar Asia Optical International Co., Ltd. " ၈ မှန်ဘီလူးအမှိုးမှိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက်
ပတ်ဝန်းကျင်စိပ်ခန့်ခွဲမှုအစီအဝဉ် (Environmental Management Plan – EMP) ရေးဆွဲခြင်းနှင့်ပတ်သက်၍	ပတ်ဝန်းကျင်စီပံခန့်ခွဲမှုအစီအစဉ် (Environmental Management Plan – EMP) ရေးဆွဲခြင်းနှင့်ပတ်သက်၍
ဝန်ထမ်းများ၏ လုပ်ငန်းစွင်ဆိုင်ရာ အကြံပြုချက်များရယူခြင်း	ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုချက်များရယူခြင်း
ာ၊ လုပ်ဝန်းစွင်ကျွန်းမာရေးနှင့်သေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်ဝပ်လျှင်း၍အကြံပြုရက်	ာ။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုချက်
a chock for the addition and the for the former of the for	(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ မားပြန်သင် ဝါ
(စ) စသက်သုံးရေ	(စ) သောက်သုံးရေ စက်ရဲ့မျှငယ်(၁၁၁ဝ.၄ရ"
(ခ) သောက်သုံးရေ	(ဂ) သန့်စင်ခန်းများ
(ဂ) သန့်စင်ခန်းများ	(ဂ) သန္နဝင်ပန်းများ (ယ) စစားကြောသန့်ရှင်းရေးစနစ် <i>GRTOC</i>
(။) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ယ) ဆေးကြောသန္မရှင်းရေးစနစ်
၂။ လုဝ်ငန်းရှင်အလုဝ်လုဝ်ကိုင်မှုအခြေအနေအပေါ် အကြံမြုံရက်	၂။ လုဝ်ငန်းစွင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြံပြုရှက်
	(က) ဆူညံသံများအစခြဲအခန္
(က) ရာညံသံများအခြေအနေ	(စ) အနံ့အသက်/အနီးအငွေ့များ
	(a) aska & some (200) +
(ဂ) လုပ်ငန်းနှင်အလင်းရောင်	(ဂ) (ပုံပန်းရှင်အလင်းနေ)င (ယ) အမွန်အမွှားများအခြေအနေ
(ဃ) အဖူနီအမွှားများအစခြဲအနေ	(c) လေဝင်လေထွက်
(၁) လောလ်လာတိုက်	(c) സോസേയ്യന
၃။ လုပ်ငန်းရှင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုရှက်	၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအခြေအနေအပေါ် အကြံပြုရက်
- 3 m 2 - 5 m	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်) <i>ေကာင်</i>
	(ခ) လုပ်စော်ကိုင်ဗက် (အဆင့်တူ)
(စ) လုပ်ဖော်ကိုင်ဇက် (အထင့်တူ)	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်) <u>ေကာင်</u>
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၄။ သီမြားအကြံပြုချက်များ	၄။ သီးရားအကြံပြုရက်များ
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လုပ်သက် ဆက်သွယ်ရန်လိပ်စာ ကြမ်းများပြီးများပေးပြီးများပေးများပြီးများပြီးများပြားပြီးများပြီးများပြီးများပြီးများပြီးများပြီးများပြီးများပေးပေးပေးပေးပေးပေးပေးပေးပြီးများပေးပေးပေးပေးပေးပြီးများပြီးများပြီးများပြီးများပေးပေးပေးပေးပေးပေးပေးပေးပေးပေးပေးပေးပေး	လုပ်သက် 550 ဆက်သွယ်ရန်လိပ်တ <u>4500 Optical</u>

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ိ Myanmar Asia Optical International Co., Ltd. " ၏ မုန်ဘီလူးအမှိုးမျိုးလုတ်လုပ်မြှင်လုပ်ငန်းအတွက် ပတ်ဝန်းကျင်စိပ်နေ့်ခွဲဖွဲ့အစီအဝဉ် (Environmental Management Plan – EMP) ရေးလွန်ပြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ဝန်းနှင့်တိုင်ခု အကြံပြာရှက်ရားရလုပ်ခြင်း	* Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူအားရှိမရှိတွေတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်အခုပ်ခံစန်ခွဲရာအစည် (Environmental Management Plan – EMP) နေရာမ်ခံစက်သက်၍ သိမ္မာကို လုပ်ရားမှာကို လုပ်ခုန်းခဲ့ပိုင်ရာ အခြင်များကျော်များကျော်ကျော်ကျော်ကျော်ကျော်ကျော်ကျော်ကျော်
၁၊ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံပြုချက်	ာ၊ လုပ်ငန်းစွင်ကျန်းမာခရာနှင့်တေးအန္တရာယ်ကာကွယ်ရှေးပစ္စည်းများနှင့်စပ်လျဉ်းရှုံအကြံပြုရက်
(က) လင်းနှစ်ဆက္ခအကွယ်မှုသွမ်းမှား	() C C - C - C - C - C - C - C - C - C -
(ခ) သောက်သုံးရေ စက် ရုံးလေးရသော ရေ	2001 460:6027 602726d
(a) and a constant an	
(၁) သန့်ဝင်မန်းများ (ယ) ဆေးစကြာသန့်ရှင်းရေးစနစ်	(၀) အားကြောဘန်ရှင်းရောနေနီ
၂၊ လုပ်ငန်းနှင်အလုပ်လုပ်ကိုင်မှားခရြအားနေးကားပါ အကြံပြီးရက် (က) ရာရွင်သရားအခြေအားနေး <u>နိုင်ခြိုန်နှင့်ခြိုန်နှင့်</u> (စ) အနန်အသက်/အစိုးအငွေ့မှား <u>နိုင်ခြိုန်နှင့်</u> (၈) လုပ်ငန်းနှင်းလုပ်ကောင် (၀) အနန်အသက်/အစိုးအငွေ များကျင် (၀) အနန်အသက်/အစိုးအငွေ များကျင် (၀) လုပ်ငန်းနှင့်ကြီးကျင်သူ (မိဖိအထက်) (၈) လုပ်ငန်းနှင့်ကြီးကျင်သူ (မိဖိအထက်) ကောင် - (၈) လက်အောက်ဝန်ထမ်း (မိဖိလက်အောက်) ကောင် - ရာ သိရြာအကြံပြုံရက်ရား	နှန်းသိုးလိုလ်လိုလိုလိုလ်လူဆားရှိသားနားဆားခြဲတာသန္းဆားခြဲအဆန့္လားလိုးရန်းအခုန်းသားလိုးခုန်းအခုန်းသားလိုးခုန်းအခုန်းသားလိုးခုန်းအခုန်းသားလိုးခုန်းအခုန်းသားလိုးခုန်းအခုန်းသားလိုးခုန်းသားခုန်းအားခုန်းသားသားအခုန်းသားသားအခုန်းသားသားအခုန်းသားသားအခုန်းသားသားအခုန်းသားသားအခုန်းသားသားအခုန်းသားသားအခုန်းသားသားအခုန်းသားသားအားခုန်းသားသားအားခုန်းသားသားအားခုန်းသားသားအားခုန်းသားသားအားခုန်းသားသားအားခုန်းသားသားအားခုန်းသားသားအားခုန်းသားသားအားခုန်းသားသားအားခုန်းသားသားအားခုန်းသားသားအားခုန်းသားသားသားသားအားခုန်းသားသားသားအားခုန်းသားသားအားခုန်းသားအားခုန်းသားအားခုန်းသားအားခုန်းသားသားသားအားခုန်းသားအားအားခုန်းသားအားခုန်းသားအားခုန်းသားအားအားခုန်းသားအားခုန်းသားအားအားခုန်းသားအားခုန်းသားအားခုန်းသားအားအားခုန်းသားအားခုန်းသားအားအားခုန်းသားအားအားခုန်းသားအားအားခုန်းသားအားခုန်းသားအားခုန်းသားအားအားခုန်းသားအားအားခုန်းသားအားအားခုန်းသားအားအားခုန်သားအားအားခုန်သားအားအားခုန်သားအားအားခုန်းသားအားကို ကြောင်းသားအားအားခုန်သားအားခုန်သားအားခုန်သားအားကို ကြောင်းသားအားအားခုန်သားအားအားခုန်သားအားအားခုန်သားအားအားခုန်သားအားအားခုန်သားအားအားခုန်သားအားကို ကြောင်သားအားကို ကြောင်းသားအားအားခုန်သားအားခုန်သားခုန်သားအားကို ကြောင်းသားအားခုန်သားအားခုန်သားအားကို ကြောင်သားအားခုန်သားအားခုန်သားခုန်သားခုန်သားအားခုန်သားခုန်သားခုန်သားခုန်သားခုန်သားအားကို ကို ကားအားကို ကို ကားအားကို ကို ကားခုန်သားခ ကြောင်သားခုန်သားခုန်သားခုန်သားခုန်သားခုန်သားခုန်သားခုန်သားခုန်သားခုန်သားခုန်သားခုန်သားခုန်သားခုန်သားခုန်သားခုနားခားခုန်သားခုန်သားခုန်သားခုန်သားခုန်ခုန်သားခုန်သားခုန်သားခုန်သားခုန်သားခုန်သားခုန်သားခုန်သားခုန်သားခုန်သားခုန်သားခုန်သားခုန
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Green Myanmar	Green Myanmar
Environmental Services Co., Ltd	Environmental Services Co., Ltd
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[*] Myanmar Asia Optical International Co., Ltd. " ၏ မုန်ဘီလူးအချိုးမိုးတွတ်လုပ်ခြင်းလုပ်ငန်းအတွက်	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူအခိုမှုမိုထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက်
ပတ်ဝန်းတွင်မိမ်မန့်ခွဲမှုအဖိအစဉ် (Environmental Management Plan – EMP) နေဖုတ်ခြင်းမှင့်မတ်သက်၍	ပတ်ဝန်းကျင်စိပ်ခန့်ခွဲမှုအစီအဝဉ် (Environmental Management Plan – EMP) နေအုန်ခြင်းမှင့်ပတ်သက်၍
ဝန်ထမ်းမှား၏ လုပ်ငန်းနှင့်ရဲဝိုင်ရာ အကြံ၌ပြုံမျက်များရသူမြင်း	ဝန်ထမ်းများ၏ လုပ်ငန်းခွင်ဆိုင်ရာ အကြံပြုချက်များရလူမြင်း
ခ၊ လုပ်ငန်းစွင်ကျန်မာခရေးနှင့်ဘေးဆန္တရာယ်တာကွယ်ရေးပစ္တည်များနှင့်စပ်လှူဦးရှိအကြံမြဲရက် (က) လုပ်ငန်းစွင်အကာအကွယ်ဖစ္စည်များ	၁။ လုပ်ငန်းခွင်အွန်းမာရေးနှင့်အေးအန္တရာသီကာကွယ်ရေးမစ္စည်းများနှင့်စင်လှုန်းရှိအကြိမြဲရက် (က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ (ခ) သောက်သုံးရေ
၂။ လုပ်ငန်းနှင်အလုပ်လုပ်ကိုပ်မှုအမြေအနေအမဒါ အကြံမြရက်	၂။ လုပ်ဝန်းရှင်အလုပ်လုပ်ကိုပ်ရှုအားြအားနေအာပါ အကြံပြူရက်
(က) ရာညံသံမှားအခြေအခန္	(က) ရာညံသံများအားြအားန
(గా) స్ఫరీంక్షీశ్రరోవర్తురు (కిరిజయిగ) కాడాడ్ జ్రగ్ బస్టర్ (ల) సరితుగార్గోర్తుగా (జయర్థియ)	(m) గుర్ కి క్రికి ద్వోట్రాస్ (కిరేవియిగ్)
	సిస్టార్ క్ష సంగ్రార్ క్ష సంగ్రార్ కింగ్ (Munt 1) కైరిపియాకింరంభాప్రార్ Wagelfel 22.00 లో లైక్కెరిపో (

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ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအအိုရှာမိုးထုတ်လုပ်မြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကျင်မီမံနေနဲ့မှအစီအဝဉ် (Environmental Management Plan – EMP) နော့မိရှာမိုလုပ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းနှင်ရာ အကြံပြချက်များရသူမြင်း	° Myanmar Asia Optical International Co., Ltd. ″၏ မှန်ဘီလူးအချီးမို့လုတ်လုပ်မြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းတွင်မီးခုန်မှဲအစီအဝဦ (Environmental Management Plan – EMP) ရေးချိန်ပိုသင့်ပိုထာ်သက်၍ ဝန်ထင်များအပြီးနှင့်လိုင်ရာ အခြံပြီးချက်များရသူမြင်း
၁။ လုပ်ငန်းစွင်ကျန်းမာခရာနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုရက်	ာ။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်းရှ်အကြံပြုမျက်
(က) လုပ်ငန်းရှင်အကာအကွယ်ပစ္စည်းများ - ½၃၇ အာဒ	(က) လုပ်ငန်းစင်အကာအကွယ်ဖစ္စည်းများ
(ခ) သောက်သုံးရှေ ြီ (၃ ၁၁)	(ခ) သောက်သုံးရှေ
(n) သန့်စင်စန်းများ ကို <u>စတာကိုယ်ခြ</u> ်ခုခုခ	(ဂ) သန်စင်ခန်းများ
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်- အာအာင်းဖြာ	(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်
ر بهریکی باری کی	၂။ လုပ်ငန်းနှင်အလုပ်လုပ်လိုင်မှုအားခြာအနေအာမဒီ အကြံခြဲမှုက် (က) ဆုန့်အသက်/အခိုအားရေး (e) အန့်အသက်/အခိုအားရွေးမှားေန်းနှင့် (h) လုပ်ငန်းနွင်အလုပ်ရေးဆင်ကြာနေနအာမဒီ အကြံခြဲမှုက် (c) လေဝင်လေလွက် (c) လုပ်ငန်းနွင်ကြိုကျင်သူ (ဒီဒိအထက်) က ကောင်း (ရ) လုပ်စောကိုင်အာ (ဒီအထင်က်) က ကောင်း (ရ) လုပ်အောက်င်နှင်မံ (ဒီဒိလက်အောက်) က ကောင်း (ရ) လုပ်အောက်ငန်းမင်း (ဒီငိလက်အောက်) က ကောင်း (ရ) လုပ်အောက်ငန်းမင်း (ဒီငိလက်အောက်) က ကောင်း
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ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလုံးအချိုးမိုးတွတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကျင်မိစ်နေခွဲဖွဲ့အစီအစဉ် (Environmental Management Plan – EMP) နေနော်ခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းရှင်အိုင်ရာ အကြံပြုချက်များရလူမြင်း	" Myanmar Asia Optical International Co., Ltd. " ၏ မုန်ဘီလူးအမှိုးမှိုးဝုလ်လုပ်မြှင်လုပ်ငန်းအတွက် ပတ်ဝန်းတို့မြင့်ခုန်ခွဲနဲ့ခဲ့အစီအတွင် (Environmental Management Plan – EMP) နော့စ်နေနဲ့ ဝန်ထမ်းမှာ၏ လုပ်ငန်းခွင်ဆိုတဲ့ ဆိုကြာများရမှာရှိသည်။
ခ၊ လုပ်ငန်းရှင်ကျန်းမာခေျမှင်ရသားအန္တရာယ်ကာကွယ်ရေးပစ္စည်းမှားမှင့်စပိုလှည့်ရှိအကြံပြုံရွက် (က) လုပ်ငန်းခွင်အကာအကွယ်ဖစ္စည်းများ (စ) စသာကိသုံးရေ	၁။ လုပ်ငန်းစွင်ကျန်မာခရေးနှင့်တောအန္တရာယ်ကာကွယ်ရေမာစ္စည်းများနှင့်လံကျွင်းရှိအကြံမြဲရက် (က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများမို ကြို့ခံခင်း ပါ (စ) သောက်သုံးရေ
၂ လုပ်ခန့်နှင့်အလုပ်လုပ်ကိုင်မှုအခြေအနေအခပါ အကြံမြရက် (က) ဆုည်သံမှာအားဖြဲအာန (ခ) အန်အသက်/အစိုးအခွင့္မရား	(က) ဆုန္ပါသံမွာအေရြအခန္ အမေါ် အကြံပြဲရက် (က) ဆုန္ပါသံမွားအရြေအန (၈) ထုန်းခ်ားလုံးအရင္မေၾား (၈) ကုပ်ငန်းစုင်အလင်းရောင် (၈) အမွန်အတွားများအရြေအနေ (ဃ) အမွန်အတွားများအရြေအနေ (ဃ) အပူန်အတွားများအရြေအနေ (ဃ) ကလင်ခံလက္မထာ (၁) လေဝင်ခံလက္မထာ
ని సార్టర్కర్లో స్నాటారు పార్గా సార్కా సార్క్ సార	(င) လေဝဒေလထွဲတ ခု လုပ်ငန်းနှင်ကြန်တွင် လူမှုထက်ဆံရေအခြေအနေအခေါ် အကြံခြံရာဘီ (က) လုပ်ငန်းနွင်ကြန်တြင်သူ (စိစိအထက်) မေဒေကြောင်း (ခ) လုပ်ခော်ကိုင်စက် (အဆင့်တူ)
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ret. တ 89 97 976 290,09-0001431 E-mail. <u>စားလေးရာရာကူမှာဖွဲ့ရရောက်လေးကို ကျစ်တွေ့ကျားကျော</u> " Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူအဆိုဖြည့်တွေ်လုပ်လိုမ်လေ့ပါတို့ ပတ်ဝန်းတွေမိစ်နေနဲ့ခွဲအစီအဝဉ် (Environmental Management Plan – EMP) ရေးလွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထစ်းများ၏ လုပ်ငန်းနှင့်ထိုင်ရာ အကြံပြုဖျက်များရသူမြင်း	" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအရိုးရှိစုထုတ်လုပ်ခြင်းလုပ်ငန်းအဝဒ္ဒက် ပတ်ဝန်းကွဲပိစ်မန့်ခွဲမှုအစီအဝဠ် (Environmental Management Plan – EMP) ရေးဆွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းများ၏ လုပ်ငန်းရှင်ဆိုင်ရာ အကြံပြုဖျက်များရသူခြင်း
ာ၊ လုပ်ခန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှည်း၍အကြံပြုရက်	၁။ လုပ်ငန်းခွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုရုက်
(က) လုပ်ငန်းခင်အကာအကုယ်မှာ 👘	(က) လုဝ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ
(စ) သောက်သုံးရှေ	(စ) သောက်သုံးရေ
(ဂ) သန့်စင်ခန်းများ	(ဂ) သန့်စင်နန်းများ
(ယ) ဆေးခကြာသန့်ရှင်းရေးစနစ်	(ဃ) ဆေးကြောသန့်ရှင်းရေးစနစ်မ်
	၂။ လုဝ်ဝန်းရွှင်အလုဝ်လုဝ်ကိုင်မှုအခြေအနေအခပါ အကြံမြရက်
။ လုဝ်ငန်းစွင်အလုပ်လုပ်ကိုင်မှုအခြေအခနအခေါ် အကြံပြုရက်	(က) ရာည်သံများအစရြအစန္ အက္ခြန်ဆို ကိုဘ်
(က) ရာညံသများအခြေအနေ	(စ) အနံ့အသက်/အစိုးအဝွေ့များ/ခင္ ကောင်း
(စ) အနံအသက်/အနိးအငွေ့များဗိေကာင္ကြ	(ဂ) လုဒ်ငန်းနှင်အလင်းမောင်ဒီအုစ်းဒီလုပ်(ဂ)
(၀) လုပ်ငန်းရှင်အလင်းရောင်	(ယ) အမှုန်အမွှားများအခြေအနေ၊ ခဲ့င်ကာ E.\
(ဃ) အပူနီအမွှားများအခြေအနေ (င) လေဝင်လေထွက်	(c) လေဝင်လေထွက်
(c) လေဝင်လေထွက်	
ာ လုပ်ငန်းခွင် လူမှုထက်ထံရေးအခြေအနေအပေါ် အကြံပြုရှက်	၃။ လုပ်ငန်းနွင် လူမှုဆက်ဆံရေးအရှေ်အနေအဝပ် အကြံပြုရက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်) ^{၂၃} ၆ကော်	(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)မင်ကာင်
(ခ) လုပ်ဇော်ကိုင်ဖက် (အဆင့်တူ)မြားက ၆	(a) လုပ်ဖော်ကိုဗောင့်တူ)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)- မ ေကောင်	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)-မင်္နက္ကာရှင်း
ය කළහැකල්ලිස්කුණය	රූ ක්ලියාත්වුල් අරාසා
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နန်းမတ် မရိကာ ဦးရှိ ၂၀ လ စာကိသ္ဆယ်ရန်လိမ်တ မရိကာ ဦးရှိ ရပ် S	နိုင်ငံသားမာတင်နေအနိုင်ငံ ကို

Green Myanmar Environmental Services Co., Ltd No.115, Kanaung Min Thar Gyi Road, Industrial Zone (1), Hlaing Thar Yar Industrial City, Yangon, Myannar Tel: 09 897 978 296, 09-5081451 E-mail: mmccompany/gmail.com, info@gmes-mm.com Myanmar Asla Optical International Co., Ltd. " af sfc3ryzzs3fa3pcoo5cyE65acyE65acyE6 Sec. Sec. Sec. Sec. Sec. Sec. Sec. S	Green Myanmar Environmental Services Co., Ltd No.115, Kanaum Min Thar Gyt Road, Industrial Zone (1), Hlang Thar Yar Industrial City, Yangon, Myanmar Tet: 09 897 978 296, 09-5081451 = mail: gmescomparizemail.com, info@gmes-mm.com "Myanmar Asia Optical International Co., Ltd. " ai y&?????? Second
ဝန်ထမ်းများ၏ လုပ်ငန်းနှင့်လိုင်ရာ အကြံပြုရက်များရသူမြင်း	ဝနထမေများ၏ လုဝငန်းနှင့်ရော အကြံပြရက် ၁။ လုဝ်ငန်းနှင့်ကျန်းမာရေးနှင့်တေးအနုရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှူဦးရှိအကြံပြရက်
၁။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လှည်း၍အကြံပြံမျက် (က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ	၁။ လုံပင်န်းစွင်ကျွန်းမာရေးနှင့်ဘေးအန္တရာယကာကွယ်ရေးပဋိည်းများနှင့်စပ်လျှင်း၍အကြံပြုရက (က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ
(က) လုဝင်နှံးပြင်အကာအကွယ်ပြေညာများ	(v) (voc 4 20 3 m 3 x 20 0 2 1 4 1 x
(a) and the second seco	(c) 2020,024081 (c) 2020,02401 (c) 2020,020000000000000000000000000000000
(၁) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်
၂။ လုပ်ငန်းရှင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြံပြုရက်	၂။ လုဝ်ငန်းစွင်အလုဝ်လုဝ်ကိုဝ်မှုအခြေအနေအပေါ် အကြံပြုရွက်
(က) ဆူညံသများအခြေအခန္	(က) ဆူညံသများအခြေအနေ
(စ) အနံ့အသက်/အနီးအငွေ့ များ	(ခ) အနံ့အသက်/အနီးအငွေ့များ
(ဂ) လုပ်ငန်းစွင်အလင်းရောင်	(ဂ) လုပ်ငန်းစွင်အလင်းရောင် <u>10.6.ကာဇ်.</u> -
(ဃ) အမှန်အမွှားများအခြေအနေ	(ဃ) အမွန်အမွှားများအခြေအနေ <u>၊ဉ.၉.၈၇၇၉</u> န
(c) လေဝင်လေထွက်	(c) စလစ်လထွက်
၃။ လုပ်ငန်းစွင် လူမှုထက်ထံရေးအခြေအနေအပေါ် အကြံပြုရက်	၃။ လုပ်ငန်းခွင် လူမှုဆက်ထံရေးအခြေအနေအခပါ အကြံပြုရှက်
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)	(က) (လုပ်နားနွာ (မှုရှိထား) က နေရာက် က
(ခ) လုပ်မော်ကိုင်ဖက် (အဆင်တ)	(ခ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်) ^{(ခု} တ်ကာကြည်
ငှာ သိရားအက်ပြီမျက်များ	දා නීලියාල්ඩුලාරාදා:
whyoh	ດດ້າງດີ 30

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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးဆရိုးရိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကျင်စီမံစန့်ခွဲခွဲအစိတ် ဦ (Environmental Management Plan – EMP) ရေးတို့ခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းရား၏ လုပ်ငန်းနှင်ငံရာ အကြံပြီရက်ရားရသူခြင်း	* Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအအိုးရှိအိုထုလုပ်လုန်းဆုတွက် ပတ်ဝန်းကူးခြင်ဆွဲနို့ခဲ့စစ်ဆွေနို (Environmental Management Plan – ENP) ရေးဆွဲနြင်ဆုပ်တိုသက်၌ သို့ဆုပ်သူးသူးရာလူရာကျမှာကြာရာ ဆင်ချင်ခဲ့သူတို့သူသော ကျောက်မှာကျောက်ရာနေတြကို ကျောက်ချားကျောက်
၁။ လုပ်ငန်းစွင်ကျန်မာရေးနှင့်ဘေအနွှေထုယ်ကာကွယ်ရေးပရွည်များနှင့်စင်လွှဉ်ရှိအကြံပြရက် (က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်များ	၁။ လုပ်ငန်းနွင်ကျန်းမားရေးနှင့်သေးအန္တရာယီကာကွယ်ရေးပရူည်းများနှင့်စင်လွန့်ာရှိအကြံပြူမျက် (က) လုပ်ငန်းနွင်အကာအကွယ်ပစ္စည်းများ (စ) စသားကိုသုံးရေ
(၁) မေးကြားသင်္ကျားမရမ်မ ၂။ လုပ်ငန်းနှင့်အလုပ်လုပ်ငွဲမှုအာရြေအနေအပေါ် အကြံပြုရက် (၈) ဆုည်သများအခြေအခန္	(၈) လုပ်ငန်းနှင့်အလုပ်လုပ်ကိုပ်နာ့အခြေအနေအခဒ် အကြံပြုရက် (၈) လုပ်ငန်းနှင့်အလင်းရောင် (၈) လုပ်ငန်းနှင့်အလင်းရောင် (၈) လုပ်ငန်းနှင့် လူမှုထောင်ဆဲရေအာခြေအနေ (၈) လုပ်ငန်းနှင့် လူမှုထောင်ဆဲရေအာခြေအနေအခဒ် အကြံပြုရက်
(က) လုပ်ငန်းနင်ကြီးကြပ်သူ (မိမိအထက်) (စ) လုပ်စော်ကိုင်ဖတ် (အထင့်ဘူ)	(က) လုပ်ငန်းနှင့်ကြီးကျွပ်သူ (မိမိအထက်) <u>19 သင်</u>
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" Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအခိုးမို့ရာတုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကျင်စီမံရန့်ခွဲမှုအမီအဝဉ် (Environmental Management Plan – EMP) ရေးဆွဲခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းမှား၏ လုပ်ငန်းနှင့်ထိုင်ရာ အကြံပြုံရက်မှားရလူမြင်း	ိ Myanmar Asia Optical International Co., Ltd. " ၏ မှန်းဆီလူအားရှိမှုရှိတွေထိလွှင်ခြင်းလုပ်ငန်းအဝတ် ပတ်ဝန်းတွေနိုင်ချင်မှာသောင် (Environmental Management Plan – EMP) ခုနော့ခြင်းပတ်သက်၍ သန်ထမ်းမှာအရားမှာ ဆန်တွင်ခုန်းခုနှင့်ကိုလ်နော့အခြင်းမှုရောက်မှုကျောက်မှုကျောက်မှုကျောက်
ာ။ လုပ်ငန်းစွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျဉ်း၍အကြံပြုချက်	၁။ လုပ်ငန်းနွင်ကျန်းမာရေးနှင့်ဘေးအန္တရာယ်ကာကွယ်ရေးပစ္စည်းများနှင့်စပ်လျှဉ်း၍အကြံပြုရက်
(က) လုပ်ငန်းခွင်အကာအကွယ်ပစ္စည်းများ	(က) လုပ်ငန်းစွင်အကာအကွယ်ပစ္စည်းများ
(a) anne saine (c) 200	(e) သောက်သုံးရေ
(၈) သန့်စင်စန်းများ	(ဂ) သန့်စင်ခန်းများ
(ယ) ဆေးကြောသန့်ရှင်းရေးစနစ်	(ဃ) ဆေးကြောသန့်ရှင်းရေးစနစ်
	ူ။ လုပ်ဝန်းရှင်အလုပ်လုပ်ကိုင်မှုအရေအနေအပေါ် အကြံပြုရက်
၂။ လုပ်ငန်းစွင်အလုပ်လုပ်ကိုင်မှုအခြေအနေအပေါ် အကြံပြုရက်	
(က) ရာသံသံများအရေအနေ	(က) ရာညံသများအခြေအနေ
(စ) အနံအသက်/အနီးအဝွေ့များ	(စ) အန်အသက်/အခိုးအဝဠ.များ
(ဂ) လုပ်ငန်းစွင်အလင်းစရာင်	(ဂ) လုပ်ငန်းစွင်အလင်းရောင်
(ယ) အမှုန်အမွှားများအခြေအနေ	(ဃ) အမှုန်အမွှားများအခြေအနေ
(a) anno 2000 anno 200	(c) လေဝင်လေထွက်
(5) 6000600000	၃။ လုပ်ငန်းရှင် လူမှုဆက်ဆံရေးအခြေအခနအပေါ် အကြံပြရက်
၃။ လုပ်ငန်းစွင် လူမှုဆက်ဆံရေးအရေအနေအပေါ် အကြံပြုရက်	ခုက္ကလန္မာမွာ လူမှာအားမားမားမားမားမားမားမားမားမားမားမားကို ကိုက္ကလန္နာကို ကိုက္ကလန္နာကို ကိုက္ကလန္နာကို ကိုက္က (က) လုပ်ငန်းနှင့်ကြီးကြပ်သူ (စီစံအစက်)
(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (ဒိမိအထက်)	(၈) လုပ်ခော်ကိုင်ဖက် (အဆင့်တူ)
(ခ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)	(ခ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)
(၈) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်) ြေ <i>လာင်</i>	(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်) (၁.၀၈၁၄)
(i) conservindentes (au conservin)	င္။ သီရြားအကြံပြရက်များ
ငှး သီမြားအကြံပြုချက်များ	A manufacture
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ပတ်ဝန်းကွင်ပိပ်ဝန်းခွဲမှအတောင် (Environmental Management Plan – EMP) မခုဆုခြင်းနှင့်ပတ်သက်၍	ပတ်ဝန်းရာနိုင်စီမံနှန့်ခံရားသို့သော (Environmental Management Plan – EMP) ခုနော်တွေနိုင်ပတ်သက်၍
ဝန်ထမ်းများ၏ လုပ်ငန်းနှင့်ဆိုင်ရာ အကြံပြုရက်ရှားရယူမြင်း	ဝန်ထမ်းမှာ၏ လုပ်ငန်းနှင့်တိုင်ရာ အကြံပြာရက်မှာရသူမြင်း
၁။ လုပ်ငန်းနွင်ကျန်းမာချေးနှင့်သေးဆန္တကုယ်ကာကွယ်ရေးမနွင့်ကိုယ်မှာနှင့်စပ်လှူဦး၌အကြံမြရက်	၁၊ လုပ်ငန်းနှင်အနန်းမာခေနနှင့်စသားဆန္တရာယ်ကာကွယ်ခေနမူးဦာများနှင့်စပ်လှည်းရှိအကြံပြုရက်
(က) လုပ်ငန်းနွင်အကာအကွယ်ဖုန့ည်းမှား	(က) လုပ်ငန်းနှင့်အကာအကွယ်ပစ္စည်းမှား
၂။ လုပ်ခန်းနှင့်အလုပ်လုပ်ခ်မှုအခဲကြောခဲ့အဝေါ် အကြံခြရက်	၂ လုပ်ငန်းစုင်အလုပ်လုပ်လိုင်လူအခြေအနေအခဒ် အကြံပြရက်
(က) ရည်သံမှားအခြေအခန္	(က) ရာညံသံများအခြေအခန
ా సార్టు స్టార్ స్టాటింగా సంకారణ స్టార్ స్టార	ာ လုပ်ငန်းနှင့် လူမှုလော်လဲခရာအခြေအနေအာပါ အကြံမြဲရက် (က) လုင်ငန်းနှင့်ကြံကြပ်သူ (စီဒီအထက်)
సరీభర్ - శ్రీలె	ార్లు సినిమి సినిమ
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Green Myanmar Environmental Services Co., Ltd No.115, Kanaung Min Thar Gyi Road, Industrial Zone (1), Hlaing Thar Yar Industrial City, Yangon, Myanmar Tel: 09 897 978 296, 09-5014511 E-mail: <u>mescempany/agmail.com, info/agmes-mm.com</u>

[®] Myanmar Asia Optical International Co., Ltd. " ၏ မှန်ဘီလူးအထိုးမိုးထုတ်လုပ်ခြင်းလုပ်ငန်းအတွက် ပတ်ဝန်းကျင်မိဖ်နေနဲ့ဖွဲ့အဆီအဝဉ် (Environmental Management Plan – EMP) နေရာရှိခြင်းနှင့်ပတ်သက်၍ ဝန်ထမ်းမှာ၏ လုပ်ငန်းနှင့်တိုင်ရာ အကြံပြံချက်များရသူခြင်း

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(စ) အနံ့အသက်/အရိုးအငွေ့ များ		
(ဂ) လုပ်ငန်းစွင်အလင်းရောင်		
(ဃ) အမှုန်အမွှားများအခြေအနေ		
(င) လေဝင်လေထွက်	491.	
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(က) လုပ်ငန်းခွင်ကြီးကြပ်သူ (မိမိအထက်)		
(ခ) လုပ်ဖော်ကိုင်ဖက် (အဆင့်တူ)	\$ 20 F C	*********
(ဂ) လက်အောက်ဝန်ထမ်း (မိမိလက်အောက်)	n 206 als .	
၄။ သီးရြားအကြံပြုချက်များ		
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အမည် Age Mya pr ဌာန onsousafineson Asia - optical.

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Appendix 31 Attendance List from Public Consultation Meeting

ရ	Tel: 09 8 န်ကုန်တိုင်းဒေသကြီး၊ ဖင်္ဂလာဒိုဖို	Kanaung Min Thar Gyi Read, Industrial Zone (1), Hiaing Thar Yar I 97 978 296, 09-5081451 F-mail: mecomparity/demail.com. info@ ရွိနယ်၊ မင်္ဂလာခုံစတ်မှုဥယျာဉ်ရှိ အာအားစီအားစီ (စားခု) အေး J အေး J လုပ်ကိုင်ဆောင်ရွက်လျက်ရှိသည့် သံလူသူနှစ်မှာ။ အလင်ရန် ပိုထိုင်သော ကောက်ရှိသာများ၊ စနဲ့ရက်စု အလေ မှန်ထိုလူဆျက် (Self Foot Jens Farry SLA)	<u>gmes-mm.com</u> နှင့်(စီ-၁၊ စီ-၂)၊တွင်	
ျွင်သားလူးကိုသေးသေးရသို့သည့် ကျွန်းသည့် ကျွန်သည့် ည့်သည့် ကျွန်သည့် ကျွန်သည့်သည့် ကျွန်သည့် ကျွန်သည့်သည့်သည့်သည့်သည့်သည့်သည့်သည့်သည့်သည့				
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Appendix 32 Suggestion Letters from Public Consultation Meeting

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La Sarvices Co., Ltd	Myanmar Asia Optical International Co., Ltd အ ရန်ကုန်တိုင်အသက္ကြီး ပင်းလာပုံပြီ နယ်။ က်လာစက်က်ကောက်ရှိ ကျောက်ကျက် (၁၈ ၀ ၀က ၁၀ ၈၄) နှင့် အတွက်ကျက် (၄၀ ၇ ၇၇)
A stand of the sta	မင်္ဂလာခုံစကိမ္စဥယျာဉ်နဲ့ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (စီ-၁၊ စီ-၂) တွင် လူပ်ကိုင်ဆောင်ရွက်လျက်ရှိသည့်
Tel: 09 897 978 296, 09-5081451 E-mail: gmescompany@gmail.com, info@gmes-min.com	းမှာမင်္ကားစနစ်ဖြင့် "မှန်ဘီလူးများ၊ မှန်ဘီလူးယူနစ်များ၊ အလင်းနှင့်ဆိုင်သော စက်ကိရိယာများ၊ လက်စစားစနစ်ဖြင့် "မှန်ဘီလူးများ၊ မှန်ဘီလူးယူနစ်များ၊ အလင်းနှင့်ဆိုင်သော စက်ကိရိယာများ၊
မျှန်း ကို	ဆုံချက်စုအလင်းတန်းမှန်ဘီလူးရောင်း (Self focus lens array-SLA)၊ အီလက်ထရောနစ်ကိရိယာများနှင့်
utoman Surgar 20 (39-0)	အခြားကိရိယာမူားတွင် အသုံးပြသည့် ပလတ်တေစ်အစိတ်အပိုင်းများ ထုတ်လုပ်ခြင်းယုပ်ငန်း "အတွက်
လုပ်ကိုင်ဆောင်မှုက်လှိုက်များမှုက်ကိုင်သော စက်ကိုရိယာများ	ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ် (EMP)အစီရင်ခံစာခုေဆွဲခြင်းနှင့်ပတ်သက်၍ အကြံပြုစာ
	ရင်းနီးဖွင့်လင်းစွာ အကြံပြားခုသားနိုင်းပါကြောင်းနှင့်လူကြီးမင်းတို့၏ အကြံပြရက်မှားကို စက်ရံထာဝန် ရှိသူများနှင့် တင်ပြလွေးနွေး
ဆုံရွက်ရာလာကာနေနန်သက္ကဖဲအရား (com route and com route and route) အတိုးကျန်တာနေနန်းကျန်တွေ အခြားကိုရီယာများတွင် အသံရှိကျည်၊ လေလာလာကနေအတိုးနေရာက် ကျန်တာနေနေနိုင်နေနိုင်သည် တစ်ရန်းကျင်ပီသနေနိုင်နာတာနေနိုင်နေတြကောင့်တာရောဆိုရှိတဲ့မြင်းနှင့်တာသက်၍ အကြီးမှုတ	ဒောက္စားမည်ဖြစ်ဖိသည်။
ပတာနားကူးဝမမန္ကေနန်းမားဆိုင်မရှိသားဆိုင်မရှိတာနောင်မှုကို အကြံမြရက်နားကို စက်ရံတာဝန် ရှိသူများနှင့် တင်ပြစထွေးနေ ရင်းနီးမွင့်လင်းမှာ အကြံမြစ်မှသားနိုင်မပါတောင်းနှင့်လူကြီးမင်းတို့၏ အကြံမြရက်နားကို စက်ရံတာဝန် ရှိသူများနှင့် တင်ပြစထွေးနေး	စဉ် ဆွေးနွေးအကြံပြချက်
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ာ ဆိုဂဂဂဂၢ ဆီရာဆီရသည် ။ အာင်းဘူးအား မိနားကို အာရှိဘားဝရာ တုံးယိုင်ဆိုင္စင်ပာ စာစီဘူအအော့	
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Myanmar Asia Ootical International Co., Ltd ສົດຄິດກໍຄິດີຄອດກາດໃຫຍ່ ຜູ້ທາງາດໃຫ້ ແຫ່ງ	Myanmar Asia Optical International Co., Ltd အံ ရန်ကုန်တိုင်အသေကြီး ပင်္ဂလာခုံဖြို့နယ်၊
Myanmar Asia Optical International Co., Ltd ၏ ရန်ကုန်တိုင်းဒေသကြီး၊ မင်္ဂလာဒုံဖြို့နယ်၊ မင်္ဂလာဒုံစက်မှုဥယျာ၌ရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (စီ-၁၊ စီ-၂) တွင်	Myanmar Asia Optical International Co., Ltd ၏ ရန်ကုန်တိုင်အဒောကြီး ပင်္ဂလာဒိုဖြို့နယ်၊ ဖင်္ဂလာဒိုစက်မှုဥယျာဉ်ရှိ အတွက်အမှတ် (အေးဝ၊ အေး၂၊ အေး-၃) နှင့် အကွက်အမှတ် (စီ-ဝ၊ စီ-၂) တွင်
မင်္ဂလာခုံစက်မှုဥာယျာဉ်ရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (ဇီ-၁၊ ဇီ-၂) တွင် လုပ်ကိုင်ဆောင်ရွက်လျက်ရှိသည့်	မင်္ဂလာဒုံမက်မှုဥယျာဉ်ရှိ အတွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အတွက်အမှတ် (စီ-၁၊ စီ-၂) တွင် လုပ်ကိုင်ဆောင်ရွက်ဂျက်ရှိသည့်
မင်္ဂလာဒုံစက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (စီ-၁၊ စီ-၂) တွင် လုပ်ကိုင်ဆောင်ရွက်လျက်ရှိသည့် လက်စစားစနစ်ဖြင့် "မှန်ဘီလူးများ၊ မှန်ဘီလူးယူနစ်များ၊ အလင်းနှင့်ဆိုင်သော စက်ကိရိယာများ၊	မင်္ဂလာခိုစက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (စီ-၁၊ စီ-၂) တွင် လုပ်ကိုင်ဆောင်ရွက်လျက်ရှိသည့် လက်စောစနစ်ဖြင့် "မုန်ဘီလူများ၊ မုန်ဘီလူးယူနင်များ၊ အလင်းနှင့်ဆိုင်သော ဂော်ကိရိယာများ၊
မင်္ဂလာခဲ့စက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (စီ-၁၊ စီ-၂) တွင် လုပ်ကိုင်ဆောင်ရွက်လျက်ရှိသည့် လက်စေားစနစ်ဖြင့် "မုန်ဘီလူးများ၊ မုန်ဘီလူးမျာနစ်ဖျား၊ အလင်းနှင့်ဆိုင်သော စက်ကိစ်ယာများ၊ ဆုံချက်စုအလင်းတန်မုန်ဘီလူးချောင်း (Self focus lens array-SLA) အီလက်ထရောနစ်ကိစ်ယာများနှင့်	မင်္ဂလာဒိုစက်မှုဥယျာဉ်ရှိ အဘွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (စီ-၁၊ စီ-၂) တွင် လုပ်ကိုင်တောင်ရွက်ရှက်ရှက် လက်စေားနေစ်ဖြင့် "မုန်ဘီလူများ၊ မုန်ဘီလူယူနစ်များ၊ အလင်းနှင့်ဆိုင်သော ဂော်ကိစ်သာများ။ ဆွဲရက်စအလင်းတန်းမုန်ဘီလူမရာရှင်: (Cell focus lens array-SLA)၊ အီလက်ထရောနစ်ကိစ်(ယာများနှင့်
မင်္ဂလာခုံစက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (စီ-၁၊ စီ-၂) တွင် လက်စတာနေစ်ဖြင့် "မုန်ဘီလူးများ၊ မုန်ဘီလူးယူနစ်များ၊ အလင်းနှင့်ဆိုင်သော စက်ကိရိယာများ၊ ဆိုချက်စုအလင်းတန်မုန်ဘီလူးချောင်း (Self focus lens array-SLA) အီလက်ထရောနစ်ကိရိယာများနှင့် အခြားကိရိယာများတွင် အသုံးပြုသည့် ပလတ်တေစ်အစိတ်အပိုင်းများ ထုတ်လုပ်ခြင်းလုပ်ငန်း"အတွက်	မင်္ဂလာခိုစက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (စီ-၁၊ စီ-၂) တွင် လုပ်ကိုင်ဆောင်ရွက်လျက်ရှိသည့် လက်စောစနစ်ဖြင့် "မုန်ဘီလူများ၊ မုန်ဘီလူးယူနှင်များ၊ အလင်းနှင့်ဆိုင်သော စက်ကိစ်ယာများ၊
မင်္ဂလာခုံစက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (စီ-၁၊ စီ-၂) တွင် လုပ်ကိုင်ဆောင်ရွက်လျှာကိုသည့် လက်စတာမနေဖြင့် "မှန်ဘီလူးများ၊ မှန်ဘီလူးများ၊ မှန်ဘီလူးယူနှစ်များ၊ အလင်းနှင့်ဆိုင်သော စက်ကိရိယာများ၊ ဆုံရက်စုအလင်းတန်းမှန်းဘီလူးများ၊ မှန်ဘီလူးများ၊ အေးချား-SLA)၊ အီလက်ထရောနှစ်ကိရိယာများနှင့် အရြားကိရိယာများတွင် အသုံးရိုသည့် ပလတ်ဝောစ်အဗိတ်အပိုင်းများ၊ ထုတ်လုပ်ခြင်းလုပ်ငန်း"အတွက် မတ်စန် မာဒုပ်ရှိနှစ်မှုအပိုအတွင် (EMP)အဝိရင်းစားနေးဆွဲခြင်းနှင့်လတ်လက်၍ အကြံမြတ	မင်္ဂလာဒိုမက်မှုဥယျာဉ်ရှိ အဘွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွတ်အမှတ် (စီ-၁၊ စီ-၂) တွင် လုပ်ကိုင်အောင်ရှိတဲ့၊ ကျန်သိုးလူးနှင့်နောက်မျက်ရှိသည့် လက်စေားနေခြံဖြင့် "မှန်ဘီလူးများ မှန်ဘီလူးယူနှင့်များ အာလင်းနှင့်ဆိုင်သော ကော်တိစ်ယာများ။ ဆုံချက်စုအလင်းတန်းမှန်ဘီလူးများကုန် (eff couse lines array-SUA) အီလက်ထရောန်စက်စိုယာများနှင့် အကြားကိုပိုယာများတွင် အသုံးပြုသည့် ပလတ်စောဖ်အစိတ်အဆိုင်များ၊ ထုတ်လုပ်ခြင်းလုပ်ငန်း "အတွက် ပတ်ဝန်အပ်ဆိုင်မှန်နိုန်မည်နောင် (SMP) တွေနောင်နောက်များကုန်တွေမှာကွဲဖြားကုန်မှန်မှန်ခံများများကုန်တို့ ကျောက်မှာ
မင်္ဂလာခိုစက်မှုဥယူခုဠိရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (ဇီ-၁၊ ဇီ-၂) တွင် လုပ်ကိုင်စားတနေဖြင့် 'မှန်ဘီလူးနားစု မှန်ဘီလူးသူနစ်မှာ၊ အလင်းနှင့်ဆိုင်သော စက်ကိန်ယာများ။ ဆုံချက်အလင်းတန်မှန်ဘီလူးနားစုင်း (Self focus lens array-SLA) အီလက်ထရောနစ်ကိန်ယာများနှင့် အရြားကိန်ယာများစုသို့ အသုံးမြှုံသည့် လက်စတေစ်အစိတ်အပိုင်းများ ထုတ်လုပ်ခြင်းလုပ်ငန်း'အတွက် ပတ်ဝန်းကူစိုင်ရန်ခွဲမူတစ်အဝင် (EMP)အစီရင်ခံစာရေဆွဲခြင်းနှင့်ယာတရန် အကြီးချက်များကို စက်ရဲတာဝန် ရှိသူများနှင့် တစ်ပြစတေးနေး	မင်္ဂလာဒိုစက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (စီ-၁၊ စီ-၂) တွင် လုပ်ကိုင်တောင်ရွက်လျက်ရှိသည် လက်စေားနေစ်ဖြင့် 'မုန်ဘီလူးရောင် မုန်ဘီလူးယူနှင်များ၊ အလင်းနှင့်ဆိုင်သော ဂော်ကိရိသာများ။ ဆုံချက်စုအလင်းတန်းမုန်ဘီလူးရောင်း (Self House lense array-SLA) အီလက်ထရာနစ်ကိရိသာများနှင့် အမြားကိရိယာများတွင် အသုံးခြုံသည့် ပလတ်တောင်စာစိတ်အစိုင်းများ ထုတ်လုပ်ခြင်းလုပ်ငန်း'အတွက် ထာာနီများစိန်မဲရန်ခွဲမှုအစီးတရာ (EMP)အစီလိုင်းတရားရှိခြင်းနှင့်တတ်သက်၌ အကြံခြံစာ ရတ်ခန့်အချင်မဲရန်ခွဲမှုအစီးတရာ (EMP)အစီလိုင်းတရားရှိခြင်းနှင့်လက်သောင်ရှိ အကြံခြေစားနေးကို ကော်ရုံတာဝန် ရှိလူများနှင့် တင်ခြင်းစားနေး စလေ့အမည်ခြင်းရသည်
မင်္ဂလာဒုံစက်မှုဥယျာဠိရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (ဇီ-၁၊ ဇီ-၂) တွင် လုပ်ကိုင်ဆောင်ရွက်လူည် လက်စေားနေနံဖြင့် 'မှန်ဘီလူးများ၊ မှန်ဘီလူးယူနစ်ရာ၊ အလင်းနှင့်ဆိုင်သော စက်ကိစ္စိယာများ၊ ဆိုချက်ကွအလင်းသာန်မှန်ဘီလူးမျောင်း (Self focus lens anay-SLA) အီလက်ထရောနစ်ကိစိယာများနှင့် အကြားကိရိယာများတွင် အသုံးမြူသည့် လတ်စတစ်အစိတ်အဝိုင်းများ ထုတ်လုပ်ခြင်းလုပ်ငန်း'အတွက် ပတ်ဝန်းကူပိုင်မနေ့ရှိမှုတစ်စေစဉ် (EMP)အစီရင်နံတရေးဆွဲခြင်းနှင့်ပတ်သက်၍ အကြံခြက ရင်းမှီးမှင့်လင်းစွာ အကြံဖြစ်နာသာနိုင်အခြင်ကျင်းနှင်လူကြံမင်းတို့၏ အကြံခြက်များကို စက်ရဲတာဝန် ရှိသူများနှင့် တင်ဖြစ်ထူးနွေး တော့မားသို့မြစ်ရာသည်။	မင်္ဂလာခိုစက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (စီ-၁၊ စီ-၂) တွင် လုပ်ကိုင်တောင်ရွက်လျက်ရှိသည့် လက်စားစားစနစ်ဖြင့် 'မုန်ဘီလူးရောင် မုန်ဘီလူးယူနှင့်များ၊ အလင်းနှင့်ဆိုင်သော ဂော်ကိရိယာများ။ ဆုံချက်စုံအလင်းတန်းမုန်ဘီလူးရောင်း (Self House lens array-SLA)၊ အီလက်ထရောနစ်ကိရိယာများနှင့် အမြောကိရိယာများတွင် အသုံးခြုသည့် ပလတ်တောင်စစ်တီအပိုင်းများ ထုတ်လုပ်ခြင်းလုပ်ငန်း''အတွက် ထက်နောကျင်စီမံရန်ဖွဲ့မှုဆင်တရာ (Celf)အစီလိုကရောဂွဲဖြင်းနှင့်လက်သက်၌ အကြံ၌တ ရတီးနီးတွင်လမ်းမှာ အကြံခြံရေးသားနိုင်အခံကြောင်းနှင့်လူကြီးမင်းတို့အ အကြံ၌ချက်ရားကို ကော်ရံတာဝန် ရှိလူများနှင့် တစ်ခြံဆွေးနေး စတော့အတွက်ခြင်းသည်။ ရည်
မင်္ဂလာခိုစက်မှုဥယူခုဠိရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (ဇီ-၁၊ ဇီ-၂) တွင် လုပ်ကိုင်စားတနေဖြင့် 'မှန်ဘီလူးနားစု မှန်ဘီလူးသူနစ်မှာ၊ အလင်းနှင့်ဆိုင်သော စက်ကိန်ယာများ။ ဆုံချက်အလင်းတန်မှန်ဘီလူးနားစုင်း (Self focus lens array-SLA) အီလက်ထရောနစ်ကိန်ယာများနှင့် အရြားကိန်ယာများစုသို့ အသုံးမြှုံသည့် လက်စတေစ်အစိတ်အပိုင်းများ ထုတ်လုပ်ခြင်းလုပ်ငန်း'အတွက် ပတ်ဝန်းကူစိုင်ရန်ခွဲမူတစ်အဝင် (EMP)အစီရင်ခံစာရေဆွဲခြင်းနှင့်ယာတရန် အကြီးချက်များကို စက်ရဲတာဝန် ရှိသူများနှင့် တစ်ပြစတေးနေး	မင်္ဂလာခိုစက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-ဝ၊ အေ-၂ အေ-ဝ) နှင့် အကွက်အမှတ် (စီ-ဝ၊ စီ-၂) တွင် လုပ်ကိုင်တောင်ရွက်လျက်ရှိသည့် လက်စေားနေနံဖြင့် 'မုန်ဘီလူးရောင် (Self focus lens arroy-SLA) အီလက်ထရောနစ်ကိုရိယာများ။ ဆုံချက်နရိယကျောင်းတန်းမုန်ဘီလူးရောင် (Self focus lens arroy-SLA) အီလက်ထရောနစ်ကိုရိယာများနှင့် အကြားကိုရိယာများတွင် အသုံးခြုသည့် လဟတ်တောင်အစိတ်အစိုင်းများ ထုတ်လုပ်ခံခြင်းလုပ်နေး''အတွက် မတ်ဝန်းကျင်စစ်နေနဲ့အတိုင်တနေနဲ့မှုအားတောင် (EMP)အစီရင်တောငေးခဲ့ခြင်းမှာင်ဟာသက္ခိ အကြံခြာတ ရင်းနီးနှင့်လင်းမွာ အကြံခြာရေးသမန်းအခြင်ကြင်းမှာငံရက်ကြောက်ရားကို စက်ရဲတာဝန် ရှိသူများနှင့် တင်ခြားစွားနေး စပတ္စာမယ့်ခြစ်ပါသည်။ စင်ဘူးမဟိုခြင်းသည်။ စင်သူမဟုတ် ကျောင်ရာနေနေအကြံခြင့်ချက်
မင်္ဂလာဒုံစက်မှုဥယျာင်ရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (စီ-၁၊ စီ-၂) တွင် လုပ်ကိုင်ဆောင်ရွက်လူည် လက်စားနေနံဖြင့် 'မှန်ဘီလူးများ၊ မှန်ဘီလူးများ၊ မှန်ဘီလူးယူနှစ်မှာ၊ အလင်းနှင့်ဆိုင်သော စက်ကိန်ယာများ။ ဆိုချက်စုအလင်းတန်မန်ဘီလူးချောင်း (Self focus lens anay-SLA) အီလက်ထရောနစ်ကိန်ယာများနှင့် အကြားကိရိယာများကွင် အသုံးမြူသည့် ပလတ်စတစ်အစိတ်အပိုင်းများ၊ ထုတ်လုပ်ခြင်းလုပ်ငန်း အတွက် ဟတ်ဝန်းကူပိစ်မနေနဲ့မှုအင်စတွင် (EMP)အစီရင်နံစာတွေနော့ခြင်းနှင့်ဟတ်သက်၍ အကြံခြံတ ရင်းနီဖွင့်လင်းစွာ အကြံဖြစနာသာနိုင်းခါကြောင်းနှင့်လူကြံအင်းတို့၏ အကြံမြကုန်းကျော် စက်ရံတာဝန် ရှိသူများနှင့် တင်ပြံတွေးနွေး စထုံအန်းကူပိုစီမံနေနဲ့မှုအင်အတွင် (EMP)အစီရင်နံစာကုနော့ခြင်းနှင့်ပတ်သက်၍ အကြံခြာတ ရင်းနီဖွင့်လင်းစွာ အကြံဖြစနာသာနိုင်းခါကြောင်းနှင့်လူကြံအင်းတို့၏ အကြံမြကုန်ကျက် စက်ရံတာဝန် ရှိသူများနှင့် တင်ပြံတွေးနွေး စထုံးမသူးညိခြင်းတည်။	မင်္ဂလာခိုစက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-ဝ၊ အေ-၂ အေ-ဝ) နှင့် အကွက်အမှတ် (စီ-ဝ၊ စီ-၂) တွင် လုပ်ကိုင်တောင်ရွက်လျက်ရှိသည့် လက်စေားနေနံဖြင့် 'မုန်ဘီလူးရောင် (Self focus lens arroy-SLA) အီလက်ထရောနစ်ကိုရိယာများ။ ဆုံချက်နရိယကျောင်းတန်းမုန်ဘီလူးရောင် (Self focus lens arroy-SLA) အီလက်ထရောနစ်ကိုရိယာများနှင့် အကြားကိုရိယာများတွင် အသုံးခြုသည့် လဟတ်တောင်အစိတ်အစိုင်းများ ထုတ်လုပ်ခံခြင်းလုပ်နေး''အတွက် မတ်ဝန်းကျင်စစ်နေနဲ့အတိုင်တနေနဲ့မှုအားတောင် (EMP)အစီရင်တောငေးခဲ့ခြင်းမှာင်ဟာသက္ခိ အကြံခြာတ ရင်းနီးနှင့်လင်းမွာ အကြံခြာရေးသမန်းအခြင်ကြင်းမှာငံရက်ကြောက်ရားကို စက်ရဲတာဝန် ရှိသူများနှင့် တင်ခြားစွားနေး စပတ္စာမယ့်ခြစ်ပါသည်။ စင်ဘူးမဟိုခြင်းသည်။ စင်သူမဟုတ် ကျောင်ရာနေနေအကြံခြင့်ချက်
မင်္ဂလာဒုံစက်မှုဥယျာင်ရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (စီ-၁၊ စီ-၂) တွင် လုပ်ကိုင်ဆောင်ရွက်လူည် လက်စားနေနံဖြင့် 'မှန်ဘီလူးများ၊ မှန်ဘီလူးများ၊ မှန်ဘီလူးယူနှစ်မှာ၊ အလင်းနှင့်ဆိုင်သော စက်ကိန်ယာများ။ ဆိုချက်စုအလင်းတန်မန်ဘီလူးချောင်း (Self focus lens anay-SLA) အီလက်ထရောနစ်ကိန်ယာများနှင့် အကြားကိရိယာများကွင် အသုံးမြူသည့် ပလတ်စတစ်အစိတ်အပိုင်းများ၊ ထုတ်လုပ်ခြင်းလုပ်ငန်း အတွက် ဟတ်ဝန်းကူပိစ်မနေနဲ့မှုအင်စတွင် (EMP)အစီရင်နံစာတွေနော့ခြင်းနှင့်ဟတ်သက်၍ အကြံခြံတ ရင်းနီဖွင့်လင်းစွာ အကြံဖြစနာသာနိုင်းခါကြောင်းနှင့်လူကြံအင်းတို့၏ အကြံမြကုန်းကျော် စက်ရံတာဝန် ရှိသူများနှင့် တင်ပြံတွေးနွေး စထုံအန်းကူပိုစီမံနေနဲ့မှုအင်အတွင် (EMP)အစီရင်နံစာကုနော့ခြင်းနှင့်ပတ်သက်၍ အကြံခြာတ ရင်းနီဖွင့်လင်းစွာ အကြံဖြစနာသာနိုင်းခါကြောင်းနှင့်လူကြံအင်းတို့၏ အကြံမြကုန်ကျက် စက်ရံတာဝန် ရှိသူများနှင့် တင်ပြံတွေးနွေး စထုံးမသူးညိခြင်းတည်။	မင်္ဂလာခိုစက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-ဝ၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (စီ-ဝ၊ စီ-၂) တွင် လုပ်ကိုင်တောင်ရွက်လျက်ရှိသည့် လက်စားမာနစ်ဖြင့် 'မုန်ဘီလူးရောင် မနိုဘီလူးယူနှင့်များ၊ အလင်းနှင့်ဆိုင်သော ဂော်ကိရိယာများ။ ဆုံချက်စုံအလင်းတန်းမုန်ဘိုလူးရောင်း (Self House lens array-SLA)၊ အီလက်ထရောနစ်ကိရိယာများနှင့် အမြားကိရိယာများတွင် အသုံးခြုံသည့် ပေလာ်တောင်အစိတ်အစိုင်များ၊ ထုတ်လုပ်ခြင်းလုပ်ငန်း''အတွက် ထက်နောကျင်စီမံရန်ဖွဲ့မှုအပ်ရောင် (CHP)အာနီရင်တောရော့ရှိခြင်းနှင့်တတ်လုပ်ခြင်းလုပ်ခော်'''အတွက် ရတ်နောကျင်စီမံရန်ဖွဲ့မှုအပ်ရောင် (CHP)အာနီရင်တောရော့ရှိခြင်းနှင့်လက်သက်၌ အကြံခြံစာ ရစီးနီးနှင့်လမ်းစွာ အကြံခြေရောသာနိုင်အခံကြောင်းနှင့်လူကြီးမင်းကို အကြံခြံရက်များကို ဂော်ရံတာဝန် ရှိသူများနှင့် တင်ခြားစုံဖန်း စသွေးမနောက်ခြင်းရသည်။ စည်းနေအာက်ခြင်းရသည်။
မင်္ဂလာဒုံစက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (စီ-၁၊ စီ-၂) တွင် လုပ်ကိုင်ဆောင်ရွက်လူည် လက်စားနေနံဖြင့် 'မှန်ဘီလူးများ၊ မှန်ဘီလူးများ၊ မှန်ဘီလူးယူနစ်ရာ၊ အလင်းနှင့်ဆိုင်သော စက်ကိန်ယာများ။ ဆိုချက်စုအလင်းတန်မန်ဘီလူးများ၊ မှန်ဘီလူးများ၊ မန်ဘီလူသူနစ်ရာ၊ အလင်းနှင့်ဆိုင်သော စက်ကိန်ယာများနှင့် အခြားကိရိယာများကွင် အသုံးမြူသည့် လတ်စတစ်အစိတ်အပိုင်းများ၊ ထုတ်လုပ်ခြင်းလုပ်ငန်း အတွက် ဟတ်စန်းကူပိစိမ်နေနဲ့မှုအင်စရာ (TeMP)အစီရင်နောတွေနောက္ကိခြင်းနှင့်ဟတ်သက်၍ အကြံခြက ရင်းနီဖွင့်လင်းစွာ အကြံဖြစနာသာနိုင်းခါကြောင်းနှင့်လူကြံမင်းတို့၏ အကြံမြကုန်းကျကို စက်ရံတာဝန် ရှိသူများနှင့် တင်ဖြံတွေးနွေး စထုံးနာမှုည်ခြင်းသည်။ စထုံးနာမှုည်ခြင်းသည်။	မင်္ဂလာခိုစက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-ဝ၊ အေ-၂ အေ-ဝ) နှင့် အကွက်အမှတ် (စီ-ဝ၊ စီ-၂) တွင် လုပ်ကိုင်တောင်ရွက်လျက်ရှိသည့် လက်စေားနေနံဖြင့် 'မုန်ဘီလူးရောင် (Self focus lens arroy-SLA) အီလက်ထရောနစ်ကိုရိယာများ။ ဆုံချက်နရိယကျောင်းတန်းမုန်ဘီလူးရောင် (Self focus lens arroy-SLA) အီလက်ထရောနစ်ကိုရိယာများနှင့် အကြားကိုရိယာများတွင် အသုံးခြုသည့် လဟတ်တောင်အစိတ်အစိုင်းများ ထုတ်လုပ်ခံခြင်းလုပ်နေး''အတွက် မတ်ဝန်းကျင်စစ်နေနဲ့အတိုင်တနေနဲ့မှုအားတောင် (EMP)အစီရင်တောငေးခဲ့ခြင်းမှာင်ဟာသက္ခိ အကြံခြာတ ရင်းနီးနှင့်လင်းမွာ အကြံခြာရေးသမန်းအခြင်ကြင်းမှာငံရက်ကြောက်ရားကို စက်ရဲတာဝန် ရှိသူများနှင့် တင်ခြားစွားနေး စပတ္စာမယ့်ခြစ်ပါသည်။ စင်ဘူးမဟိုခြင်းသည်။ စင်သူမဟုတ် ကျောင်ရာနေနေအကြံခြင့်ချက်
မင်္ဂလာဒုံစက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (စီ-၁၊ စီ-၂) တွင် လုပ်ကိုင်ဆောင်ရွက်လူည် လက်စားနေနံဖြင့် 'မှန်ဘီလူးများ၊ မှန်ဘီလူးများ၊ မှန်ဘီလူးယူနစ်ရာ၊ အလင်းနှင့်ဆိုင်သော စက်ကိန်ယာများ။ ဆိုချက်စုအလင်းတန်မန်ဘီလူးများ၊ မှန်ဘီလူးများ၊ မန်ဘီလူသူနစ်ရာ၊ အလင်းနှင့်ဆိုင်သော စက်ကိန်ယာများနှင့် အခြားကိရိယာများကွင် အသုံးမြူသည့် လတ်စတစ်အစိတ်အပိုင်းများ၊ ထုတ်လုပ်ခြင်းလုပ်ငန်း အတွက် ဟတ်စန်းကူပိစိမ်နေနဲ့မှုအင်စရာ (TeMP)အစီရင်နောတွေနောက္ကိခြင်းနှင့်ဟတ်သက်၍ အကြံခြက ရင်းနီဖွင့်လင်းစွာ အကြံဖြစနာသာနိုင်းခါကြောင်းနှင့်လူကြံမင်းတို့၏ အကြံမြကုန်းကျကို စက်ရံတာဝန် ရှိသူများနှင့် တင်ဖြံတွေးနွေး စထုံးနာမှုည်ခြင်းသည်။ စထုံးနာမှုည်ခြင်းသည်။	မင်္ဂလာခိုစက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-ဝ၊ အေ-၂ အေ-ဝ) နှင့် အကွက်အမှတ် (စီ-ဝ၊ စီ-၂) တွင် လုပ်ကိုင်တောင်ရွက်လျက်ရှိသည့် လက်စေားနေနံဖြင့် 'မုန်ဘီလူးရောင် (Self focus lens arroy-SLA) အီလက်ထရောနစ်ကိုရိယာများ။ ဆုံချက်နရိယကျောင်းတန်းမုန်ဘီလူးရောင် (Self focus lens arroy-SLA) အီလက်ထရောနစ်ကိုရိယာများနှင့် အကြားကိုရိယာများတွင် အသုံးခြုသည့် လဟတ်တောင်အစိတ်အစိုင်းများ ထုတ်လုပ်ခံခြင်းလုပ်နေး''အတွက် မတ်ဝန်းကျင်စစ်နေနဲ့အတိုင်တနေနဲ့မှုအားတောင် (EMP)အစီရင်တောငေးခဲ့ခြင်းမှာင်ဟာသက္ခိ အကြံခြာတ ရင်းနီးနှင့်လင်းမွာ အကြံခြာရေးသမန်းအခြင်ကြင်းမှာငံရက်ကြောက်ရားကို စက်ရဲတာဝန် ရှိသူများနှင့် တင်ခြားစွားနေး စပတ္စာမယ့်ခြစ်ပါသည်။ စင်ဘူးမဟိုခြင်းသည်။ စင်သူမဟုတ် ကျောင်ရာနေနေအကြံခြင့်ချက်
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မင်္ဂလာဒုံစက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (စီ-၁၊ စီ-၂) တွင် လုပ်ကိုင်ဆောင်ရွက်လူည် လက်စားနေနံဖြင့် 'မှန်ဘီလူးများ၊ မှန်ဘီလူးများ၊ မှန်ဘီလူးယူနစ်ရာ၊ အလင်းနှင့်ဆိုင်သော စက်ကိန်ယာများ။ ဆိုချက်စုအလင်းတန်မန်ဘီလူးများ၊ မှန်ဘီလူးများ၊ မန်ဘီလူသူနစ်ရာ၊ အလင်းနှင့်ဆိုင်သော စက်ကိန်ယာများနှင့် အခြားကိရိယာများကွင် အသုံးမြူသည့် လတ်စတစ်အစိတ်အပိုင်းများ၊ ထုတ်လုပ်ခြင်းလုပ်ငန်း အတွက် ဟတ်စန်းကူပိစိမ်နေနဲ့မှုအင်စရာ (TeMP)အစီရင်နောတွေနောက္ကိခြင်းနှင့်ဟတ်သက်၍ အကြံခြက ရင်းနီဖွင့်လင်းစွာ အကြံဖြစနာသာနိုင်းခါကြောင်းနှင့်လူကြံမင်းတို့၏ အကြံမြကုန်းကျကို စက်ရံတာဝန် ရှိသူများနှင့် တင်ဖြံတွေးနွေး စထုံးနာမှုည်ခြင်းသည်။ စထုံးနာမှုည်ခြင်းသည်။	မင်္ဂလာခိုစက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-ဝ၊ အေ-၂ အေ-ဝ) နှင့် အကွက်အမှတ် (စီ-ဝ၊ စီ-၂) တွင် လုပ်ကိုင်တောင်ရွက်လျက်ရှိသည့် လက်စေားနေနံဖြင့် 'မုန်ဘီလူးရောင် (Self focus lens arroy-SLA) အီလက်ထရောနစ်ကိုရိယာများ။ ဆုံချက်နရိယကျောင်းတန်းမုန်ဘီလူးရောင် (Self focus lens arroy-SLA) အီလက်ထရောနစ်ကိုရိယာများနှင့် အကြားကိုရိယာများတွင် အသုံးခြုသည့် လဟတ်တောင်အစိတ်အစိုင်းများ ထုတ်လုပ်ခံခြင်းလုပ်နေး''အတွက် မတ်ဝန်းကျင်စစ်နေနဲ့အတိုင်တနေနဲ့မှုအားတောင် (EMP)အစီရင်တောငေးခဲ့ခြင်းမှာင်ဟာသက္ခိ အကြံခြာတ ရင်းနီးနှင့်လင်းမွာ အကြံခြာရေးသမန်းအခြင်ကြင်းမှာငံရက်ကြောက်ရားကို စက်ရဲတာဝန် ရှိသူများနှင့် တင်ခြားစွားနေး စပတ္စာမယ့်ခြစ်ပါသည်။ စင်ဘူးမဟိုခြင်းသည်။ စင်သူမဟုတ် ကျောင်ရာနေနေအကြံခြင့်ချက်
မင်္ဂလာဒုံစက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (စီ-၁၊ စီ-၂) တွင် လုပ်ကိုင်ဆောင်ရွက်လူည် လက်စားနေနံဖြင့် 'မှန်ဘီလူးများ၊ မှန်ဘီလူးများ၊ မှန်ဘီလူးယူနစ်ရာ၊ အလင်းနှင့်ဆိုင်သော စက်ကိန်ယာများ။ ဆိုချက်စုအလင်းတန်မန်ဘီလူးများ၊ မှန်ဘီလူးများ၊ မန်ဘီလူသူနစ်ရာ၊ အလင်းနှင့်ဆိုင်သော စက်ကိန်ယာများနှင့် အခြားကိရိယာများကွင် အသုံးမြူသည့် လတ်စတစ်အစိတ်အပိုင်းများ၊ ထုတ်လုပ်ခြင်းလုပ်ငန်း အတွက် ဟတ်စန်းကူပိစိမ်နေနဲ့မှုအင်စရာ (TeMP)အစီရင်နောတွေနောက္ကိခြင်းနှင့်ဟတ်သက်၍ အကြံခြက ရင်းနီဖွင့်လင်းစွာ အကြံဖြစနာသာနိုင်းခါကြောင်းနှင့်လူကြံမင်းတို့၏ အကြံမြကုန်းကျကို စက်ရံတာဝန် ရှိသူများနှင့် တင်ဖြံတွေးနွေး စထုံးနာမှုည်ခြင်းသည်။ စထုံးနာမှုည်ခြင်းသည်။	မင်္ဂလာခိုစက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂ အေ-၃) နှင့် အကွက်အမှတ် (စီ-၁၊ စီ-၂) တွင် လုပ်ကိုင်တောင်ရွက်လျက်ရှိသည် လက်စားမားနစ်ဖြင့် 'မုန်ဘီလူးရောင် (Self focus lens array-SLA) အီလက်ထရောန်စက်ရီယာများနှင့် ဆွဲချက်ခရီယာများတွင် အသုံးခြုသည့် လဟတ်တောင်ဖတ်တင်င်များ ထုတ်လုပ်ခြင်းလုပ်ငန်း''အတွက် အကြားကိရိယာများတွင် အသုံးခြုသည့် လဟတ်တောင်ဖတ်တင်င်များ ထုတ်လုပ်ခြင်းလုပ်ငန်'''အတွက် ထုပ်နော့လုင်လမ္မာ အကြံခြာရောသနိုင်အခြေမှုအလာတွေ (BMP)အစီလုင်တာနောက်ကြီးမှာလက် ရှိသူများနှင့် တစ်ခြံဆွေးနေး စယာကွန်သည်။ စင်းနှံသွင်လင်းမွာ အကြံခြာရောသနိုင်အခြေများခံနှင့်လက်နောက်ခြင်းနှင့်တာနောက်ခြင်းတွေ ကို စင်းနှံသွင်လင်းမွာ အကြံခြာရောသနိုင်အခြေမှာက်နောင်လူကြီးမားတို့အ အကြံခြံချက်ရားကို တက်ရှိတာဝန် ရှိသူများနှင့် တစ်ခြံဆွေးနေး စင်းချားမားကြိုင်းသည်။ စင်းနှံသည်။ စင်းနှံသည့်ကြောက်သည့် ကို သိုးသည်။ ကို ကြားကြားရှိသည့် ကို ကြောက်ရားကို ကန်ရာတနောက်ခြောက်နောက် ကိုနောက်တွေ ကို
မင်္ဂလာဒုံစက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (စီ-၁၊ စီ-၂) တွင် လုပ်ကိုင်ဆောင်ရွက်လူည် လက်စားနေနံဖြင့် 'မှန်ဘီလူးများ၊ မှန်ဘီလူးများ၊ မှန်ဘီလူးယူနစ်ရာ၊ အလင်းနှင့်ဆိုင်သော စက်ကိန်ယာများ။ ဆိုချက်စုအလင်းတန်မန်ဘီလူးများ၊ မှန်ဘီလူးများ၊ မန်ဘီလူသူနစ်ရာ၊ အလင်းနှင့်ဆိုင်သော စက်ကိန်ယာများနှင့် အခြားကိရိယာများကွင် အသုံးမြူသည့် လတ်စတစ်အစိတ်အပိုင်းများ၊ ထုတ်လုပ်ခြင်းလုပ်ငန်း အတွက် ဟတ်စန်းကူပိစိမ်နေနဲ့မှုအင်စရာ (TeMP)အစီရင်နောတွေနောက္ကိခြင်းနှင့်ဟတ်သက်၍ အကြံခြက ရင်းနီဖွင့်လင်းစွာ အကြံဖြစနာသာနိုင်းခါကြောင်းနှင့်လူကြံမင်းတို့၏ အကြံမြကုန်းကျကို စက်ရံတာဝန် ရှိသူများနှင့် တင်ဖြံတွေးနွေး စထုံးနာမှုည်ခြင်းသည်။ စထုံးနာမှုည်ခြင်းသည်။	မင်္ဂလာခိုစက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-ဝ၊ အေ-၂ အေ-ဝ) နှင့် အကွက်အမှတ် (စီ-ဝ၊ စီ-၂) တွင် လုပ်ကိုင်တောင်ရွက်လျက်ရှိသည့် လက်စေားနေနံဖြင့် 'မုန်ဘီလူးရောင် (Self focus lens arroy-SLA) အီလက်ထရောနစ်ကိုရိယာများ။ ဆုံချက်နရိယကျောင်းတန်းမုန်ဘီလူးရောင် (Self focus lens arroy-SLA) အီလက်ထရောနစ်ကိုရိယာများနှင့် အကြားကိုရိယာများတွင် အသုံးခြုသည့် လဟတ်တောင်အစိတ်အစိုင်းများ ထုတ်လုပ်ခံခြင်းလုပ်နေး''အတွက် မတ်ဝန်းကျင်စစ်နေနဲ့အတိုင်တနေ့ဖို့အားတရင် (BMP)အစီရင်ငံတာရောက္ကိုင်းမှာတိုလုပ်ခံခြင်းလုပ်နေး''အတွက် ရင်းနီးနှင့်လင်းမွာ အကြံခြာရေးသမနိုင်အဖြောက်နေလုံကြီးမင်းတို့အ အကြံခြံတဲ့က်ရားကို စက်ရိတာဝန် ရှိသူများနှင့် တင်ခြင်းစွာနေး စသောမားတိုခြင်းသည်။ စသောမားတို့ခြင်းသည်။ စသောမားတိုက် ကျင်စာတန် ကျင်စက်နေနေအကြံခြင်းများကို ကျင်စက်နေးမှာ ကျင်စက်နေးကို ကျင်စကာနေး စက်နောက်နောက်နောက်နောက်နောက်နောက်နောက်နော
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မင်္ဂလာခိုစက်မှုဥယူဦး၌ အတွက်အမှတ် (အားခ၊ အား၂၊ အေးခု) နှင့် အတွက်အမှတ် (စီးခ၊ မီး၂) တွင် လက်စောအနေမြင့် 'မှန်ဘိလူးရား၊ မှန်ဘိလူယူနှစ်ဖုန် အလင်းနှင့်ဆိုင်သော စက်ကိမ္မိယာများ ဆဲခြားကိမ္မိယာများတွင် အသုံးပြားသွင် (Seti Fous liens array-SLA) အလက်မထူနေစက်ခိုယ်ကျားများနှင့် ထာတ်နော်ကွစ်စီမံနေခွဲမူတစ်ဆင့် (EMP)အစီရင်မံစာရေးခွဲခြင်းနှင့်ယူတို့မင်းတို့၏ အကြံခြားကိုမောက်နောက္တန် ရှိသူများနှင့် တစ်ဖြစ်စားနှင့် စတော့အည်ခြားမသည်။ စည်းနီလင်းစွာ အကြံခြားသောနိုင်အကြောင်းနှင်ယူကြီးဆံတို့၏ အကြံခြားကိုများကို စက်ရုံတာဝန် ရှိသူများနှင့် တစ်ဖြစ်စားခုန် စတော့အည်ခြားမိသည်။ စည်းနောက်ကြံခြစက် စည်းနောက်ကြံခြစက် မြန်နှင့်လင်းမှာ အကြံခြားသောနိုင်အကြောင်းနှင်ယူကြီးဆံတွက် အကြံခြားကိုမှာ စက်ရုံတာဝန် ရှိသူများနှင့် တစ်ဖြစ်စာနော စည်းနောက်ကြံခြစက် မြန်နှင့်လင်းမှာ အကြံခြစ်သည်။ စည်းနောက်ကြံခြစက် မြန်နှင့်လင်းမှာ ကြောက်ချားချောက်မှာ စက်ခံတာဝန် ရှိသူများနှင့် တစ်ဖြစ်စာနောက်ခြားများကို စက်ရုံတာဝန် ရှိသူများနှင့် တစ်ဖြစ်စာနော စတာအည်ခြားမိတာဝန် ရှိသူများနှင့် ကြောင်းနောက်ကြေခြစက် စည်းနောက်ကြံခြစ်သည်။ စည်းများကို ကြောက်ခြားကို ကြောက်ချားချောက်ချားမှာ စက်ခံတာချောက်ချားကို စက်ရုံတာဝန် ရှိသူများနှင့် တစ်ဖြစ်စာနောနနောက်ကြံခြစက် မြန်နှာမှန်သောကိုကြောက်ခြားချောက်ခြားနောက်ကြားနှင့်လကာများမှာ စက်ရုံတာဝန် ရှိသူများနှင့် ကြောက်ချားကို စက်ရုံတာချောက်ချားချားချားကို စက်ရုံတာဝန် ရှိသူများနှင့် တစ်ဖြစ်တာဝန် ရှိသူများနှင့် တစ်ခြားစာရှိသူများနောက်ခြားချာကို စက်ရုံတာဝန် ရှိသူများနှင့် ကာရာချာကို စက်ရုံတာဝန် ရှိသူများနှင့် ကာရာချားချာကို စကာဝန်နောက်ချာကကာကို စကာချားချာကာကို စကာကာဝန်နောက်ချာကာကာကာကို စကာကာခြားချာကကာကို စကာရာချာကာကို စကာဝန်နောက်ခြားချာက မြန်နောက်ကာကာကာချားခြားချားချာကကာကာကာကာကာကာကာကာကာကာခြားချာကာကာကာကာကာကာကာကာကာကာကာကာကာကာကာကာကာကာက	 သိုလ္ (၂. ဒီ င-ဒီ) ထဲမှာလဲက္ကဆန္နိန် (၄. ဆေ ၂. ဆေ ၊ - ဆေ ၊ ဆေ) ထဲမှာလဲက္ကဆန္နိန်နမ်း ရို႕ျပည္သမ္မာလဲကေလာ ကို အျပာလန်နန်နမ်း ကို အျပာလန်နန်နမ်း ရို႕ျပည္သမ္မာလဲကေလာ ကို အျပာလန်နန်နမ်း ရို႕ျပည္သမ္မာလဲကေလာ ကို အျပာလန်နန်နမ်း ရို႕ျပည္သမ္မာလဲကေလာ ကို ကို အျပာလန်နန်နမ်း ရို႕ျပည္သမ္မာလန်နာက္က အျပာလန်နနန်နမ်း ကို အျပာလန်နနန်နမ်း ရို႕ျပည္သမ္မာလန်နာက္က အျပာလန်နနန်နမ်း ရို႕ျပည္သမ္မာလန်နာက္က အျပာလန်နနနန်နမ်း ရို႕ျပည္သမ္မာလန်နာက္က အျပာလန်နနနန်နမ်း ရို႕ျပည္သမ္မာလန်နာက္က အျပာလန်နနနနန္နမ်း အျပာလန်နာက္က အျပာလနံနာက္က အျပာလန်နာက္က အျပာလန်နာက္က အျပာလနံနာက္က အျပာလန်နာက္က အျပာလန်နာက္က အျပာလနံနာက္က အျပာလနံနာက္က အျပာလနံနာက္က အျပာလနံနာက္က အျပာလနံနာက္က အျပာလနံနာက္က က က အျပာလန်နာက္က အျပာလနံနာက္က အျပာလန်နာက္က အျပာလနံနာက္က အျပာလနံနာက္က အျပာလနံနာက္က အျပာလနံနာက္က အျပာလနံနာက္က အျပာလန်နာက္က အျပာလနံနာက္က အျပာလနံနာက္က အျပာလနံနာက္က အျပာလနံနာက္က အျပာလနံနာက္က က အျပာလနံနာက္က အျပာလနံနာက္က အျပာလနံနာက္က အျပာလနံနာက္က အျပာလနံနာက္က အျပာလနံနာက္က အျပာလနံနာက္ကက က အျပာလနံနာက္က အျပာလနံနာက္က အျပာလနံနာက္ကက အျပာလနံနာက္က အျပာလနံနာက္ကက္ကက္က အျပာလနံနာက္ကကက္
မင်္ဂလာခိုလက်မှုသူသည်၌ရှိ အတွက်အမှတ် (အေ-၁၊ အေ-၂) နှင့် အတွက်အမှတ် (စီ-၁၊ မီ-၂) တွင် လက်စတာနေနံဖြင့် 'မုန်ဘီလူးရားမှ နိုဘီလူသမှုနှင့်ရာ အလင်နှင့်ဆိုင်သော စက်ကိန်ယာများအ ဆိုရာကိုအလင်ဆာန်မှန်သိလူးရောင်း (Self focus lens anay-SLA) အလက်ပြင်နား အတွက် ယတ်နောက္ခနိမ်နေနိုမှုဆင်ဆင့် (EMP)အစီရင်ခံတနေဆွဲခြင်းနှင့်ဟာသက်၍ အကြံမှုတ ပတ်နောက္ခနိမ်နေနိုမှုဆင်ဆင့် (EMP)အစီရင်ခံတနေဆွဲခြင်းနှင့်ဟာသက်၍ အကြံမှုတ ရင်းနီးမှင်လင်ရာ အကြံမြာရသာနိုင်အခြောင်းနှင့်လူကြံမင်းတို့၏ အကြံမြာရက်ရားကို စက်ရုံဘာဝန် ရှိသူများနှင့် တင်ဖြစ်စစုမန္နဲ့ စသွေးနေးအကြံမြာရက် ရင်းနီးမှင်လင်ရာ အကြံမြာရသာနိုင်အခြောင်းနှင့်လူကြံမင်းတို့၏ အကြံမြာရက် စသွေးနေးအကြံမြာရက် စည်းနေးအကြံမြာရက် အပည်	 δου (ι. δ. c.3) ανατότορα έξει (σ. cea ι. cea ι. cea ι. cea ι. cea ι. αι αλαματότορα έξουμος του αλαματότου ζωμερου και τηματικη έξουμος έξουμος του αλαματότου ζωμερου του του του του του του του του του τ
မင်္ဂလာခိုစက်မှုဥယူဦး၌ အတွက်အမှတ် (အားခ၊ အား၂၊ အေးခု) နှင့် အတွက်အမှတ် (စီးခ၊ မီး၂) တွင် လက်စောအနေမြင့် 'မှန်ဘိလူးရား၊ မှန်ဘိလူယူနှစ်ဖုန် အလင်းနှင့်ဆိုင်သော စက်ကိမ္မိယာများ ဆဲခြားကိမ္မိယာများတွင် အသုံးပြားသွင် (Seti Fous liens array-SLA) အလက်မထူနေစက်ခိုယ်ကျားများနှင့် ထာတ်နော်ကွစ်စီမံနေခွဲမူတစ်ဆင့် (EMP)အစီရင်မံစာရေးခွဲခြင်းနှင့်ယူတို့မင်းတို့၏ အကြံခြားကိုမောက်နောက္တန် ရှိသူများနှင့် တစ်ဖြစ်စားနှင့် စတော့အည်ခြားမသည်။ စည်းနီလင်းစွာ အကြံခြားသောနိုင်အကြောင်းနှင်ယူကြီးဆံတို့၏ အကြံခြားကိုများကို စက်ရုံတာဝန် ရှိသူများနှင့် တစ်ဖြစ်စားခုန် စတော့အည်ခြားမိသည်။ စည်းနောက်ကြံခြစက် စည်းနောက်ကြံခြစက် မြန်နှင့်လင်းမှာ အကြံခြားသောနိုင်အကြောင်းနှင်ယူကြီးဆံတွက် အကြံခြားကိုမှာ စက်ရုံတာဝန် ရှိသူများနှင့် တစ်ဖြစ်စာနော စည်းနောက်ကြံခြစက် မြန်နှင့်လင်းမှာ အကြံခြစ်သည်။ စည်းနောက်ကြံခြစက် မြန်နှင့်လင်းမှာ ကြောက်ချားချောက်မှာ စက်ခံတာဝန် ရှိသူများနှင့် တစ်ဖြစ်စာနောက်ခြားများကို စက်ရုံတာဝန် ရှိသူများနှင့် တစ်ဖြစ်စာနော စတာအည်ခြားမိတာဝန် ရှိသူများနှင့် ကြောင်းနောက်ကြေခြစက် စည်းနောက်ကြံခြစ်သည်။ စည်းများကို ကြောက်ခြားကို ကြောက်ချားချောက်ချားမှာ စက်ခံတာချောက်ချားကို စက်ရုံတာဝန် ရှိသူများနှင့် တစ်ဖြစ်စာနောနနောက်ကြံခြစက် မြန်နှာမှန်သောကိုကြောက်ခြားချောက်ခြားနောက်ကြားနှင့်လကာများမှာ စက်ရုံတာဝန် ရှိသူများနှင့် ကြောက်ချားကို စက်ရုံတာချောက်ချားချားချားကို စက်ရုံတာဝန် ရှိသူများနှင့် တစ်ဖြစ်တာဝန် ရှိသူများနှင့် တစ်ခြားစာရှိသူများနောက်ခြားချာကို စက်ရုံတာဝန် ရှိသူများနှင့် ကာရာချာကို စက်ရုံတာဝန် ရှိသူများနှင့် ကာရာချားချာကို စကာဝန်နောက်ချာကကာကို စကာချားချာကာကို စကာကာဝန်နောက်ချာကာကာကာကို စကာကာခြားချာကကာကို စကာရာချာကာကို စကာဝန်နောက်ခြားချာက မြန်နောက်ကာကာကာချားခြားချားချာကကာကာကာကာကာကာကာကာကာကာခြားချာကာကာကာကာကာကာကာကာကာကာကာကာကာကာကာကာကာကာက	သို့ ကြန်မာလိုက်ကြန်မှ ကြန်မာလိုက္ကာကို နိုင်ငံနော ကမေး ကမေး ကို ကို ကြန်မာလိုက်ကို ကို ကြန်မာလိုက်ကို ကြန်မာလိုက်ကောင်ကို ကြန်မာလိုက်ကို ကြန်မာလိုက်ကိုက်ကို ကြန်မာလိုက်ကို ကြန်မာလိုက်ကို ကြန်မာလိုက်ကို ကြန်မာလိုက်ကို ကြန်မာလိုက်ကို ကြန်မာလိုက်ကို ကြန်မာလိုက်ကို ကြန်မာလိုက်ကိုက်ကိုက်ကိုက်ကိုက်ကိုက်ကိုက်ကိုက်

Myanmar Asia Optical International Co., Ltd ဖိ ရန်ကုန်တိုင်အသေကြီး မင်္ဂလာခုရှိ နယ် Myanmar Asia Optical International Co., Ltd ၏ ရန်ကုန်တိုင်းဒေသကြီး၊ မင်္ဂလာဒုံခြို့နယ်။ မင်္ဂလာခံစက်မှုဥ၊ ဒုဂ္ဂ၌နို့ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (စီ-၁၊ စီ-၂) တွင် မင်္ဂလာခုံစက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (စီ-၁၊ စီ-၂) တွင် လုပ်ကိုအောင်ရက်လူက်ရှိသည် လက်မကားစေခံဖြင့် 'မုန်ဘီလူးများနေနီယူးလူတီနေခံ အျမောက်ရှိသာများ လုပ်ကိုင်ဆောင်ရွက်လျက်ရှိသည့် လက်စားစနစ်ဖြင့် "မှန်သီလူးများ၊ မှန်သီလူးယူနစ်များ၊ အလင်းနှင့်ဆိုင်သော စက်ကိရိယာများ၊ ဆုံရက်စုအသင်းတန်းမှန်ဘီလူးခရာင်း (Self focus lens array SUA)၊ အီလက်ထရောနှင့်ကိုင်ထားများနှင့် အခြားကိုဒီယာများတွင် အသုံးရြှသည့် ပလတ်တော်အစီတံအနိုင်မများ ထုတ်လုပ်ခြင်းလုပ်ငန်း"အတွက် ဆုံရက်စုအလင်းတန်းမှန်သီလူးချောင်း (Self focus lens array-SLA)၊ အီလက်ထရောနစ်ကိရိယာများနှင့် အခြားကိရိယာများတွင် အသုံးပြုသည့် ပလတ်စတစ်အစိတ်အပိုင်းများ ထုတ်လုပ်ခြင်းပုပ်ငန်း အတွက် အခြားကိရိယာများတွင် အသုံးပြုသည့် ပလတ်စတစ်အစိတ်အပိုင်းများ ထုတ်လုပ်ခြင်းပုပ်ငန်း အတွက် **လမ်ဘူးကို ကိုလင်လပ်ဦးနာခြန်းမှာလေခံချစ်အကြ**်စတ်ချာ ပတ်ဝန်းကုပ်စီမံနေ့ခွဲမှုအစီအစဉ် (EMP)အစီရင်ခံစာနေးဆွဲခြင်းနှင့်ပတ်သက်၍ အကြံပြက ခင်ခံဖွင့်လင်ရာ အကြံပြစသေးနိုင်ခါပြောင်းနှင့်လူကြီးနော်တို့၏ အကြံမြရက်မှုအခုံ စက်ခွဲတာလန် ရှိသူများနှင့် တင်ပြစသူးနန္ ရင်းနီးပွင့်လင်းစွာ အကြံမြေရေးသားနိုင်းပါတြောင်းနှင့်လူကြီးမင်းတို့၏ အကြံမြဖွတ်မူးးကို စက်ရံတာဝန် ရှိသူများနှင့် တင်ပြဆွေးနွေး ပေးသွားမည်ဖြစ်ပါသည်။ າມແລງຈາຍສຸລິຊີຍັບໃໝລິຍ ε§ eδ အွေးနေးအကြံပြဲရက် ဆွေးနွေးအကြံပြုံရက် Gove Rules & Regulation of an Gis: make 1 2" Beferens gron: fight ame gridate ດວດຈີບວລິ လက်မှတ် 630052.20 my Are. အမည် အမည် 095449836. of geoercefae ဖုန်းနံပါတ် ဖုန်းနံပါတ် Foxliak Myanmor ဆက်သွယ်ရန်လိပ်ဓာ ဆက်သွယ်ရန်လိပ်စာ Myanmar Asia Optical International Co., Ltd ၏ ရန်ကုန်တိုင်းဒေသကြီး၊ မင်္ဂလာဒုံဖြို့နယ်၊ Myanmar Asia Optical International Co., Ltd ၏ ရန်ကုန်တိုင်းဒေသကြီး မင်္ဂလာခုံမြို့နယ်၊ မင်္ဂဟာခုံက်ေမှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (ဇီ-၁၊ ဇီ-၂) တွင် လုပ်ကိုင်ဆောင်ရွက်လျက်ရှိသည့် မင်္ဂလာခဲ့စက်မှုဥယျာဉ်ရှိ အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃) နှင့် အကွက်အမှတ် (စီ-၁၊ စီ-၂) တွင် လုပ်ကိုင်ဆောင်ရွက်လူက်ရှိသည့် လက်စားစနစ်ဖြင့် 'မှန်ဘီလူးများ မှန်ဘီလူးများ အလင်းနှင့်ဆိုင်သော စက်ကိရိယာများ လက်စားစနစ်ဖြင့် 'မှန်ဘီလူးရောင်း (Self focus lens array-SLA) အီလက်ထရောနစ်ကိရိယာများနှင့် လက်စားစနစ်ဖြင့် "မုန်ဘီလူးများ၊ မုန်ဘီလူးလူနစ်များ အလင်းနှင့်ဆိုင်သော စက်ကိရိယာများ ဆုံချက်စေလင်းဆန်းမှန်ဘီလူးရောင်း (Self focus lens array-SUA)၊ အီးသက်ထားစုခုနှင်ကိန်ယာများနှင့် အခြားကိန်ယာများတွင် အသုံးခြည်၌ ပူးသတ်စောစ်အစိတ်အပိုင်းများ ထုတ်လုပ်ခြင်းလုပ်ငန်း 'အထွက် အခြားကိန်ယာများတွင် အသုံးပြသည့် ပလတ်တေစ်အစိတ်အပိုင်းများ ထုတ်လုပ်ခြင်းလုပ်ငန်း အတွက် ပတ်ဝန်းကျင်စီခံခန့်ခွဲမှုအစီအဝဉ် (EMP)အစီရင်ခံစာခေးထွဲခြင်းနှင့်ပတ်သက်၍ အကြံမြတ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ် (EMP)အစီရင်ခံစာရေးဆွဲခြင်းနှင့်ပတ်သက်၍ အကြံပြုစာ ရင်းနီးမွင့်လင်းစွာ အကြံမြာရေးသားနိုင်းပါတြောင်းနှင့်လူကြီးမင်းတို့၏ အကြံမြရက်များကို စက်ရုံတာဝန် ရှိသူများနှင့် တင်မြစေစွာနွေး ရင်းနီးမွင့်လင်းမှာ အကြံပြုခဲ့သေားနိုင်ပါကြောင်းနှင့်လူကြီးမင်းတို့၏ အကြံပြုခုတ်မှားကို စက်ရုံတာဝန် ရှိသူများနှင့် တင်ပြဲဆွေးခန့်း သွားမည်ဖြစ်ပါသည်။ မသွေးဆော်ခြစ်ပါသည်။ စဉ် ဆွေးနွေးအကြံပြုချက် ရော့းနွေးအကြံပြုချက် οŚ worke water trustment gysten con 3295 9 53 2000 - Niesont almigh & actor astacks. Curren hypenmar of Analysis un of Philard 6.35 (5) Swife charged of 27: Br July waste water treatment - Egelejejeje ememere m. repular maintain @145.022702. Plastic Ejection as of nessorial frage meeting of ingo ventilation gester on Sta maitan On Surveys. NS 4: 254 somous of of afisis fings, chanical managered the of an in ward and and a grant is and 25 popor may to the of your സന്ഗാ cochuch That yop little యిటన్ Beece 861305424206128 09795702471 ဖုန်းနံပါတ် 98:5305 ortiguigenter Plast C-8 MIP anzulation Repto MIP Exict Myanmax

Appendix 33 Project Proponent's Commitment on Suggestion Form

MYANMAR ASIA OPTICAL INTERNATIONAL CO., LTD. PLOT NO A-2, A-3 & C-1, C-2 MINGALADON INDUSTRIAL PARK, MINGALADON T/S, YANGON, SIA MYANMAR. TEL: +95-9974453837, +95-95173541 FAX:951 - 639034,639035 තුදි မန်နေဂျင်းဒါရိုက်တာ စိမ်းလန်းမြန်မာပတ်ဝန်းကျင်ဆိုင်ရာဝန်ဆောင်မူလုပ်ငန်းကုမ္ပကီလီမီတက် အမှတ်(၁၁၅)၊ ကနောင်မင်းသားကြီးလမ်း၊ လှိုင်သာယာစက်မှုဇုန်(၁)၊ လှိုင်သာယာမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီး။ ရက်စွဲ - ၂၀၂၀ ခုနစ်၊ နို ဇင်ဘာ လ (၅) ရက် အကြောင်းအရာ။ ။ Myanmar Asia Optical International Co., Ltd အိ လက်စတားစနစ်ဖြင့် "မှန်ဘီလူးများ မှန်ဘီလူးယူနစ်များ အလင်းနှင့်ဆိုင်သော စက်ကိရိယာများ၊ ဆုံချက်စုအလင်းတန်းမှန်ဘီလူးချောင်း (Self focus Lens Array-SLA)၊ အီလက်ထရောနစ်ကိရိယာများနှင့် အခြားကိရိယာများတွင် အသုံးပြသည့် ပလတ်စတစ်အစိတ်အပိုင်းများထုတ်လုပ်ခြင်းလုပ်ငန်း" စက်ရုံအတွက် ဝက်ရုံနှင့် စက်ရုံဝန်ထမ်းများနှင့် အများပြည်သူများ၏ ပတ်သက်၍ အကြံပြုရက်များ ဆောင်ရွက်ပေးသည့် မြန်ကြားရြင်းကိစ္စ။ ။ ၂၀၂၁ ခုနှစ်၊ ⁸ေဘော လ (၅)ရက်နေ့တွင် စိမ်းလန်းမြန်မာပတ်ဝန်းကျင် ရည်ညွှန်းရတ် ၊ ဆိုင်ရာဝန်ဆောင်မှုလုပ်ငန်းကုမ္ပကီလီဖိတက်၏ ပေးပို့စာ၊ အထက်ဖော်ပြပါကိစ္စနှင့်စပ်လျဉ်း၍ ရည်ညွှန်းပါတဖြင့် Myanmar Asia Optical International Co., Ltd ၏ စက်ရုံလုပ်ငန်းနှင့်ပတ်သက်၍ စက်ရုံဝန်ထမ်းများနှင့် အများပြည်သူများ၏ ဆွေးနွေး အကြံပြုချက်များကို စက်ရုံဘက်မှဆောင်ရွက်ပေးမည့် အစီအစဉ်များကို ပြန်ကြားအပ်ပါသည်။ ပူးတွဲ ၊ ။ အကြံပြုချက်၊ ဆန္ဒသဘောထားများအပေါ် စက်ရုံမှ ဆောင်ရွက်ပေးမည့် အစီအစဉ်၊ workyos Aft σဘο\$ລ໋ອວຍລຽ - -Mr. Han-Jung.Chen---- Director epop: Myanmar-Asia Optical Int'l Cost Ltd. Myanmar Asia Optical International Co., Ltd အကွက်အမှတ် (အေ-၁၊ အေ-၂၊ အေ-၃)နှင့် (စီ-၁၊ စီ-၂) မင်္ဂလာခံစက်မှုဥယျာဉ်၊ ဖင်္ဂလာခံမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီး၊

အကြံပြုရက်ဆန္ဒသဘောထားများ	ားစောင်ရွက်ပေးမည့်အစီအစဉ် ဆောင်ရွက်ပေးမည့်အစီအစဉ်			
(က) စက်ရုံဝန်ထမ်းများ၏ အကြံပြုချက်များ				
လုဗ်ငန်းစွင်သုံးအကာအကွယ်ပစ္စည်းများ တောက် ပေးထားကြောင်း ဆွေးနွေးပွဲတက်ရောက်လာသဉ့ ဝန်ထမ်းများ အားလုံး အကြံပြုထားပါသည်။	of spinon and marker and a comminder of the			
သောက်သုံးရေ ထောက်ပံ့ပေးကြောင်းဆွေးနွေ တက်ရောက်လာသည့်ဝန်ထမ်းများအားလုံအကြံပြ ထားပါသည်။				
သန့်စင်ခန်းများမှာ သန့်ရှင်းပြီး လုံလောက် ရှိကြောင်း ဆွေးနွေးပွဲသို့ တက်ရောက်လာသႏ ဝန်ထမ်း များ အားလုံး အကြံမြထားပါသည်။	2 without hard to a set at a set at a set and a set and a set at a set at a set at a set at a set a se			
ဆေးကြောသန့်ရှင်းရေးအတွက် လက်ဆေးကန်မျ ဆပ်ပြာ/လက်သန့်ဆေးရည်များ ထားရှိပေးထား အဆင်ပြေ ကောင်းမွန်ကြောင်းကို ဆွေးနွေ	\$ 2260Eaf: w7 +n= N :02E Nor 630: mf W/2: 1			
တက်ရောက်လာသည့်ဝန်ထမ်းများအားလုံး ဗော် ထားပါသည်။	9			
 လုပ်ငန်းစွင်ဆူညံသံနှင့်ပတ်သက်၍ ရေားနွေ တက်ရောက်လာသည့် ဝန်ထမ်းအများစုမှာ ေ ကြောင်း၊ အချို့ဝန်ထမ်းများမှာ အနည်းငေ ရှိကြောင်း အကြံပြုထားပါသည်။ 	2 marthololauser entreby mare in the			
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(0)) အများပြည်သူများနှင့်တွေ့ဆုံဆွေးနွေးပွဲမှအကြံပြုရ	inepi
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•	ကိုတွေရှိရပါသည်။ Green Myanmar of Analysis အရ ရေ၏ PH Level 6.35 ခြစ်ပါသည်။	man and a son of the second se
	treatment အား ပုံမှန်ထိန်းသိမ်း မှုများ ပြုလုပ် သင့်ပါသည်။	405.75 Aurora : also was flag and . all bar and . all an
•	အငွေ၊ အနှံများအတွက် Ventilation system	
•	လုဝ်ငန်းစွင်များနှင့် သဘာဝပတ်ဝန်းကျင် ထိန်းသိမ်း နိုင်ရန် Chemical management plan များကို ရေးဆွဲအကောင်ထည်ဖော်ပြီး လုဝ်ထောင်သင့်ပါသည်။	ဓာတ္ ပန္လပ်းများ ကိုင်ရမ္မသီကပျံ XQL ကုတ္ရင် အီးသန် ကျွမ်း ကျင်းျူများ စိမ်းခန့် နွေ YP: ၊ သက်ဆိုင်ရာ ဓာတ္(စေဒ စိမ်းခန့် နွဲ) ဖြို့အစီးစည်နှင့် ဓာတ္ အခုသံ ပန်မိန် မှ စာရားပေါ် စောင် နွှမ်ကြင်းစသည် သဂုဒ်များကျင် မျှများ ကျဖာသာမျက်ကြပါသူ
•	အစိုးရမှထုတ်ပြန်ထားသော ဥပဒေနှင့်စည်းမျဉ်းများ အတိုင်း လိုက်နာ ဆောင်ရွက်ပေးပါရန်း ဓါတုပစ္စည်းများ အသုံးပြုကိုင်တွယ်ခြင်း တို့အတွက် သက်ဆိုင်ရာဌာနမှ လိုင်စင်များ လျှောက်ထား	મુધાનીઅર્ડ અપ્રસંદ્ધિ ૨૦૦૬ છા: કુદ્ધરુદ : મુદ્ધરુદ : નાંદ્ માંગ્રે તેલાં માર્ગ્સ્ટ લું નાં છા તેદિજા હાદિ : ગી ભાગદવ્ય લીકે દ માંગ્રે તેલાં માર્ગ્સ્ટ લું નાં છા તેદિજા હાદિ : ગી ભાગદવ્ય લીકે દ માંગ્રે તેલાં માંગ્રે છે છે છે છે છે છે છે છે છે છે. છે
•	ရယူရန်း ရယူရန်း စွမ်းအင်အသုံးပြုမှ နေ့စဉ်/လစဉ် ပမာကအား ထည့်သွင်းဗော်ပြရန်	001391022511
•	စွန့်ပစ်ရည်၊ ထုတ်လွှတ်အစိုးအငွေ၊ ရာညံသံ၊ အနံ အသက်များကို အမြိုးသားပတ်ဝန်းကျင်ဆိုင်ရာ အရည်အသွေး (ထုတ်လွှတ်မှု) လမ်းညွှန်ချက်များ နှင့်အာဒီ လိတ်နာဆောင်ရက်ရန်။	ระรายกองอย่ะแล้ะ ออร์ไรเรียวส่าวใจ อยู่ เฟรุณีรณี เปลี่ยนของ เเอาเมียงส่าว เกลงระไขได้เล สีเราที่อุณีขณะยังแห้วเปลาไรกับ
•	ဝန်ထမ်းများအား ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဆိုင်ရာ အသိပညာများ ဖြန့်ဝေရန်နှင့် ပတ်ဝန်းကျင်ဆိုင်ရာ	shuring BE Balleridge Nurseners will be about the states of a