

**MATERIAL SAFETY DATA SHEET:** According to EC-directive 2001/58/EC**Vulcanization Agent OT20****HS Code: 38249999.90****1. 化学品及企业标示(CHEMICAL PRODUCT AND COMPANY IDENTIFICATION)**

产品标签名/ Product label name	不溶性硫磺OT20 (聚合硫磺) Insoluble sulfur OT20 (Polymeric Sulfur) 深圳市华起达实业有限责任公司 Meyors Chemical INC Limited 深圳市罗湖区中兴路, 外贸集团大厦2610-2611室
供应商/ Supplier	RM 2610-2611 Foreign Trade Building, Zhong Xing Road Shen Zhen. China TEL:+86-755-82184166 FAX:+86-755-82187033
紧急电话/ Emergency telephone	+86-755-82190130
产品用途/ Intended use	橡胶硫化剂/ Rubber Vulcanisation Agent
日期/Date	2019-9-29

2. 成分/组成信息(COMPOSITION/INFORMATION ON INGREDIENTS)

化学名/ Chemical name	聚合硫磺/ Polymeric Sulfur Polymeric Sulfur 9035-99-8
CAS编号/ CAS NO.	Rhombic Sulfur 7704-34-9 High pressure and hydrotreated naphthenic oil 64742-52-5
产品描述/ Chemical description	黄色不飞扬粉末/ Non-rised yellow powder
TSCA NO. 编码/ TSCA NO.	无/ none
EINECS 号码/ EINECS NO.	无/ none
其他信息/ Other information	(S ₈) _n

3. 危险性鉴定(HAZARDS IDENTIFICATION)**Hazard Classification/危险性分类:****OSHA Specified Hazards/OSHA的特殊危害:**

Combustible dust/可燃粉尘	May form combustible dust concentrations in air. 可能在空气中形成可燃粉尘浓度
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Warning label items including precautionary statement:**警告标签项目包括预防说明:**

Signal Words: 信号词	Warning/警告
Hazard Statement(s)/危害说明:	May form combustible dust concentrations in air. 可能在空气中形成可燃粉尘浓度



Precautionary Statement

防范说明

Prevention/预防:	P210: Keep away from heat/sparks/open flames. - No smoking. P210 : 远离热源/火花/明火。 - 禁止抽烟。 P243: Take precautionary measures against static discharge. P243 : 采取防静电措施。
Disposal/处置:	P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. P501: 按照适用的法律和法规以及处置时的产品特性, 将内装物/容器处置至适当的处理和处置设施。
Hazard(s) not otherwise classified (HNOC) 危害没有其他危害分类 (HNOC) :	No data available. 无可用数据

4. 急救措施(FIRST AID MEASURES)

症状和效果/ Symptoms and effects

Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Dust contact with the eyes can lead to mechanical irritation. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

吸入粉尘可能导致呼吸急促, 胸闷, 喉咙痛和咳嗽。
灰尘接触眼睛会导致机械刺激。
频繁或长期接触可能会使皮肤脱脂和干燥, 从而导致不适和皮炎。

急救/ First aid

Get medical attention if symptoms occur. Show this safety data sheet to the doctor in attendance. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Place unconscious person on the side in the recovery position and ensure breathing can take place. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

如出现症状请就医。出示此安全数据表给就诊的医生。

如呼吸困难, 给输氧。如呼吸停止, 立即进行人工呼吸。

将失去知觉的人放在恢复姿势的一侧, 并确保可以进行呼吸。

确保医务人员了解所涉及的材料, 并采取预防措施以保护自己。

通常情况/ General

Move into fresh air and keep at rest. Get medical attention if symptoms occur. For breathing difficulties, oxygen may be necessary. Persons who have inhaled vapours or smoke fumes have to be put under medical observation for at least 48 hours, due to the delayed appearance of poisoning.

吸入/ Inhalation

呼吸新鲜空气中并保持休息。如出现症状请就医。

对于呼吸困难, 可能需要氧气。

吸入蒸气或烟雾的人由于中毒的延迟出现而必须接受至少48小时的医疗观察

**皮肤/ Skin**

Wash skin thoroughly with soap and water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.
用肥皂和水彻底清洗皮肤。如出现症状请就医。
再次使用之前, 请清洗受污染的衣物。

眼睛/ Eye

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms occur.
立即用大量水冲洗至少15分钟。如果容易做到, 请取下隐形眼镜。
如出现症状请就医。

摄取/ Ingestion

If swallowed, rinse mouth with water (only if the person is conscious).
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Loosen tight clothing such as a collar, tie, belt or waistband.
Never give liquid to an unconscious person. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Seek medical advice.
如果吞咽, 请用水冲洗口腔 (仅当该人有意识时)。
将受害者转移到新鲜空气处, 并保持呼吸舒适的姿势。
松开紧身的衣服, 例如衣领, 领带, 皮带或腰带。
切勿给失去知觉的人喝水。除非医务人员指示, 否则请勿催吐。
如果发生呕吐, 请保持低头, 以免胃内容物进入肺部。就医。

医生建议/ Advice to physician

Treat symptomatically. Persons who have inhaled vapours or smoke fumes have to be put under medical observation for at least 48 hours, due to the delayed appearance of poisoning.
对症治疗。
吸入蒸气或烟雾的人由于中毒的延迟出现而必须接受至少48小时的医疗观察

5. 消防措施(FIRE-FIGHTING MEASURES)**灭火媒介/ Extinguishing media**

Water spray, fog, CO2, dry chemical, or regular foam.

不适用的灭火媒介

水喷雾, 雾, 二氧化碳, 干化学, 或规则泡沫。

/ Unsuitable extinguishing media

water in straight hose stream; will scatter and spread fire.

直软管流中的水; 会分散和蔓延火灾。

特殊危险/ Special exposure hazards

Combustible. The substance burns with almost invisible flame. Powdered material may form explosive dust-air mixtures. In case of fire, toxic and corrosive gases may be formed. Can cause delayed lung injury. Leaked material and fire-fighting water may pollute water system. Hazardous combustion products : Oxides of Sulfur.

易燃。物质燃烧时几乎看不见的火焰..
粉末材料可能形成爆炸性粉尘-空气混合物。
发生火灾时, 可能形成有毒和腐蚀性气体..

**分解腐烂危险/燃烧产品/****Hazardous decomposition/
combustion products****保护设备/ Protective equipment****其他信息/ Other information**

会导致肺部延迟伤害。
泄漏的物料和消防用水可能会污染水系..
危险燃烧产品：硫氧化物。

Sulfur oxides (SO_x): May cause delayed pulmonary oedema.

硫的氧化物：可能导致慢性肺部肿瘤。

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

着火时，必须穿戴自给式呼吸器和全套防护服。

Evacuate all non-essential personnel.

Because of dangers of toxic effects, warn people to shelter indoors. Close doors and windows and stop ventilation.

Approach down wind.

Avoid dispersing the dust into clouds when using extinguishing means.

If safe to do so, remove the exposed containers, or cool with large quantities of water.

Do not allow run-off from fire fighting to enter drains or water courses.

Thoroughly clean equipment after use.

疏散无关人员。

由于毒害危险，警告人们呆在室内。关闭门窗，停止通风。

靠近下风口

使用时避免粉尘挥发到空气中

安全的做法是移除敞开的容器，或用大量的冷水。

避免消防水接触下水道，土地或水源。

使用后彻底洗净设备。

6. 泄露应急处理(ACCIDENTAL RELEASE MEASURES)**个人防范/ Personal precautions**

No action shall be taken involving any personal risk or without suitable training. Keep unauthorized personnel away. Prevent dust cloud. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing dust/fume/vapors. Avoid contact with eyes, skin, and clothing. Ventilate closed spaces before entering them. Do not touch or walk through spilled material. Wear appropriate personal protective equipment.

不得采取任何涉及任何个人风险或没有适当培训的行动.. 让未经授权的人员远离.. 防止灰尘云。

**环境预防/ Environmental precautions**

消除所有点火源(禁止吸烟、照明弹、火花或f)在附近地区)。避免呼吸灰尘/烟雾/蒸气。避免接触眼睛、皮肤和衣服。通风封闭空间进入之前。不要触摸或走过溢出的材料。我们适当的个人防护设备。

Prevent further leakage or spillage if safe to do so. Clear up spills immediately and dispose of waste safely. Do not contaminate water sources or sewer.

如果安全的话,请防止进一步的泄漏或溢出。

立即清除溢出物并安全处置废物。

请勿污染水源或下水道。

Small Spillages: Remove small spills with vacuum cleaner. Collect in containers and seal securely. Large Spillages: Use non-sparking tools and explosion-proof equipment. Cover powdered spills with plastic sheet or tarpaulin to minimize spreading and protect from water.

清洁处理方法/ Methods for cleaning up

Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Clean surface thoroughly to remove residual contamination.

帆布或防水布,以尽量减少扩散和保护免受水的影响。

收集容器中的溢出物,安全密封,并按当地规定交付处置。彻底清洁表面

7. 操作处置与储存(HANDLING AND STORAGE)**操作处置/ Handling**

Do not handle until all safety precautions have been read and understood. Handle product only in closed system or provide appropriate exhaust ventilation at machinery.

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges. Minimize vertical drop distance in chutes and hoppers to prevent generation of dust clouds and static electrical charge. Totally or partially inert closed equipment to reduce oxygen content to below 7%.

Minimize dust generation and accumulation. Avoid contact with oxidizing agents. Drain or remove substance from equipment prior to break-in or maintenance. An eye wash bottle must be available at the work site. Wear appropriate



personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment. Avoid breathing dust. Avoid breathing vapor from heated material. In case of inadequate ventilation, use respiratory protection. Avoid contact with eyes, skin, and clothing. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Do not taste or swallow. Handle in accordance with good industrial hygiene and safety practice.

在阅读并理解所有安全预防措施之前，请勿进行操作。仅在密闭系统中处理产品，或在机器上提供适当的排气通风。消除所有点火源（在附近区域禁止吸烟，火炬，火花或火焰）。材料会积聚静电荷，可能引起电火花（点火源）。使用正确的连接和/或接地程序。应通过避免灰尘的积聚来防止因着火而引起火焰蔓延或二次爆炸的危险，例如在地板和壁架上。最小化滑槽和料斗中的垂直下落距离，以防止产生尘云和静电荷。完全或部分惰性的封闭设备，可将氧气含量降低至7%以下。减少灰尘的产生和积累。避免与氧化剂接触。进行侵入或维护之前，请排干或清除设备上的物质。工作现场必须有洗眼瓶。穿戴适当的个人防护设备。请参阅个人防护装备安全数据表的第8节。避免吸入灰尘。避免从加热的材料中吸入蒸气。如果通风不足，请使用呼吸防护装置。避免与眼睛，皮肤和衣物接触。下班后脱去污染的衣服，并用肥皂和水彻底清洗皮肤。不要品尝或吞咽。按照良好的工业卫生和安全规范进行操作。

Dust/air mixtures may ignite violently upon exposure to sparks or sources of ignition.

Dust explosion class (VDI 2263): St 1.

Avoid dust accumulation. Avoid dispersing the dust into clouds. Eliminate all sources of ignition, and do not generate flames or sparks. Prevent electrostatic discharges. Use grounded equipment. Totally or partially inert closed equipment to reduce oxygen content below 7%. Minimize vertical drop distance in chutes and hoppers to prevent generation of dust clouds and static electrical charge.

粉尘/空气 混合物可能会引起猛烈的爆炸。

粉尘爆炸等级(VDI 2263): St 1。

避免粉尘堆积。避免粉尘挥发到空气中。消除火源，同时避免产生火焰或火花。防止静电的产生。使用接地设备。完全或部分地关闭设备使氧含量低于7%。在斜道和单足跳时减少落差。阻止空气中粉尘和静电的产生。

Store in a cool, dry place out of direct sunlight. Keep

火灾爆炸处理/

Fire and explosion prevention

储存要求/ Storage requirements



container tightly closed and in a well-ventilated place.

Keep in original container. Keep away from sources of ignition - No smoking. Keep from contact with oxidizing materials. Store away from incompatible materials. Keep away from food, drink and animal feeding stuffs. Store in accordance with local/regional/national/international regulations.

存放在阴凉干燥处，避免阳光直射。

保持容器密闭并放在通风良好的地方。

保存在原始容器中。远离火源-禁止吸烟。

避免与氧化剂接触。远离不相容的材料存放。

远离食物，饮料和动物饲料。

根据当地/区域/国家/国际法规进行存储。

8. 接触控制/个人防护(EXPOSURE CONTROLS/PERSONAL PROTECTION)

	TWA	15 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
Sulfur, homopolymer - Respirable fraction.	TWA	5 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	TWA PEL	5 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
Sulfur, homopolymer - Total dust.	TWA PEL	10 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
Sulfur, homopolymer - Respirable fraction.	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Sulfur, homopolymer - Total dust.	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Sulfur, homopolymer - Respirable fraction.	TWA	5 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Sulfur, homopolymer - Total dust.	TWA	15 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Hydrotreated heavy naphthenic petroleum distillates	PEL	500 ppm 2,000 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Hydrotreated heavy naphthenic petroleum distillates - Mist.	PEL	5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Hydrotreated heavy naphthenic petroleum distillates - Inhalable fraction.	TWA	5 mg/m ³	US. ACGIH Threshold Limit Values (03 2014)

**工程学控制/ Engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

应该使用良好的一般通风（通常每小时换气10次）。通风率应与条件相匹配。如果适用，请使用过程外壳，局部排气通风或其他工程控制措施，以将空气中的浓度保持在建议的暴露极限以下。

如果尚未确定暴露极限，则将空气传播水平维持在可接受的水平。

暴露限制/ Exposure limits

No exposure limits have been established for this material. The following data are applicable to the ingredient(s) listed below.

无限制。其它数据请参看下面。

名称/ Name: 聚合硫磺/ Polymeric Sulfur

OES-TWA 10.0 mg/m³ (total inhalable dust)

个人防护/ Personal protection**呼吸器/ Respiratory**

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

如果风险评估表明有必要，请使用符合批准标准的正确安装的颗粒过滤器防毒面具。

呼吸器的选择，使用和维护必须符合法规要求（如果适用）。

**手/ Hand**

如果工程控制措施不能将空气中的浓度保持在建议的暴露极限以下（如适用）或可接受的水平以下（在尚未确定暴露极限的国家中），则必须佩戴经批准的呼吸器。

在美丽坚合众国，如果使用呼吸器，则应制定程序以确保符合 OSHA Standard 63 FR

1152（1998年1月8日）的要求。呼吸器类型：空气净化呼吸器，具有适当的政府批准（如适用），

空气净化过滤器，滤筒或滤毒罐。

请与健康和安全生产专业人员或制造商联系以获取特定信息。

It is a good industrial hygiene practice to minimize skin contact. If prolonged or repeated contact is likely, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations. When material is heated, wear gloves to protect against thermal burns.

减少皮肤接触是良好的工业卫生习惯。

如果可能长时间或反复接触，建议使用耐化学腐蚀的手套。如果可能接触前臂，请戴上手套。

请与手套制造商联系，以获取有关选择手套和使用时间的具体建议。

产品被污染后，请立即更换手套，并根据相关的国家和地方法规进行处置。加热材料时，戴上手套以防灼伤。

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommendations: Wear safety glasses with side shields (or goggles).

当风险评估表明有必要避免接触液体飞溅物，薄雾，气体或粉尘时，应使用符合批准标准的安全眼镜。

建议：戴上带有侧罩（或护目镜）的安全眼镜。

眼/ Eye

Wear suitable protective clothing.

穿戴相应的保护服装。

皮肤和身体/ Skin and body**9. 物理和化学特性(PHYSICAL AND CHEMICAL PROPERTIES)**

外观/ Appearance	Non-rised yellow powder 黄色不飞扬粉末	颜色/ Colour	Yellow 黄色
气味/ Odour	Faint 微弱	沸点/ Boiling point	293 °C (1.013 hPa) oil444 °C (1.013 hPa) sulfur



熔点/ Melting point	90-119°C	闪点/ Flash point	----
易燃性/ Flammability	----	加热减量≤	0.50
爆炸性/ Explosive properties	----	Loss on drying%(Max)	
氧化性/ Oxidizing properties	----	自燃温度/ Auto ignition temperature	232 °C
比重/ Density	1.60-1.70g/cm ³ (20°C)	蒸汽压/ Vapour pressure	<0.01 mBar (20°C)
溶解性/ Solubility in water	Insoluble in water 不溶于水	体积密度/ Bulk density	350-550 kg/m ³
PH值/ pH value	----	在其它溶剂中的溶解性 Solubility in other solvents	Partly soluble. 部分溶解
Residues (150um)% ≤	0.5	分解系数/ Partition coefficient	----
筛余物(150um)% ≤		相对蒸汽密度/ (air=1) Relative vapour density	----
粘性/ Viscosity	----	爆炸极限/ Explosion limits	Lower Explosion Limit 下限 (LEL): 30 g/m ³ , Upper Explosion Limit 上限(UEL): >2000 g/m ³ .
Insoluble Sulfur Content% (On total S)≥	90	Element Sulfur content%	80.0±1.0
不溶性硫磺含量(占总硫元素) ≥		元素硫含量	

10. 稳定性和反应性(STABILITY AND REACTIVITY)

稳定性/ Stability

Stable under recommended storage and handling conditions (see section 7).

应避免的情况/ Conditions to avoid

推荐的稳定储存和搬运条件 (请参照第7部分)

Avoid conditions which create dust. Prevent dust accumulation to minimize explosion hazard. Avoid heat, sparks, open flames and other ignition sources.

避免产生灰尘的条件。防止灰尘积聚，以最大程度地减少爆炸危险。避免高温，火花，明火和其他点火源。

应避免的物质/ Materials to avoid

Strong oxidizing agents. Amines.

强氧化剂，胺类物质。

腐烂分解毒性产品/

Hazardous decomposition products

Elevated temperatures or mechanical action may form vapors, mists or fumes which may be irritating to the eyes and respiratory tract. In case of fire, toxic and corrosive gases may be formed. Sulfur dioxide gas may be liberated from the product.

高温或机械作用可能会形成蒸气，雾气或烟气，可能会刺激眼睛和呼吸道。着火时，可能形成有毒和腐蚀性气体。

产品中可能释放出二氧化硫气体。



11. 毒理学资料(TOXICOLOGICAL INFORMATION)

名称/ Name	不溶性硫磺/ Insoluble sulfur
敏感性毒害/ Acute toxicity	
口头的/ Oral LD50	老鼠/ rat: >4000 mg/kg.
皮肤的/ Dermal LD50	兔子/ rabbit: >2000 mg/kg.
吸入/ Inhalation LC50	兔子/ rat: > 9.23 mg/l.
易愤怒/ Irritation	
皮肤/ Skin	rabbit: Non-irritating/ 兔子: 无烦躁或愤怒
眼睛/ Eye	rabbit: Non-irritating/ 兔子: 无烦躁或愤怒
呼吸/ Respiratory	rabbit: Non-irritating/ 兔子: 无烦躁或愤怒
感光性/ Sensitization	Patch testing (Human experience): Not sensitizing. 取样实验 (人体) 表明: 无光敏性。
基因学/ Genotoxicity	Not mutagenic (in vitro)/ 无诱导基因突变物质。
其它毒物学信息/ Other toxicological information	Chronic toxicity: NOEL (No Observable Effect Level) (rat, oral): 500 mg/kg. 慢性毒性: 无明显效果水平: 500 mg/kg.

12. 生态学资料(ECOLOGICAL INFORMATION)

名称/ Name	不溶性硫磺/ Insoluble sulfur
生态学/ Ecotoxicity	
鱼/ fish	96h-LC50 (Danio rerio):100 mg/l.
水蚤/ daphnia	48h-EC0 (Alga): >10.000mg/l.
生物体内积累/ Bioaccumulation	Assimilation and consumption in proteic synthesis 蛋白质合成中同化和消耗。

13. 废弃处理(DISPOSAL CONSIDERATIONS)

产品/ Product	The generation of waste should be avoided or minimized wherever possible. Dispose of waste and residues in accordance with local authority requirements. 应尽可能避免或减少废物的产生。 根据地方当局的要求处理废物和残渣。
包装污染/ Contaminated packaging	According to local regulations. 根据当地规定。
处置方法/Disposal methods:	Recover and reclaim or recycle, if practical. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Do not discharge into drains, water courses or onto the ground.



Since emptied containers retain product residue, follow label warnings even after container is emptied. Recycle empty drums at an appropriate facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal. Ensure drums are tightly sealed.

如果可行，请恢复并回收或回收。根据适用的法律和法规以及处置时的产品特性，在适当的处理和处置设施中处置废物。请勿排入排水沟，水道或地面。

由于倒空的容器会残留产品残留物，因此即使倒空容器也要遵守标签警告。根据当前适用的法律和法规以及处置时的产品特性，在适当的设施中回收空桶。确保桶密封良好。

14. 运输信息(TRANSPORT INFORMATION)

陆运/ Land transport (ADR/ RID)

ADR等级/ ADR class	----	RID等级/ RID class	----
ADR/RID包装组成/	----	危害鉴定号/	----
ADR/RID packing group	----	Hazard Identification No.	----
物质鉴定号/	----	UN号	----
Substance Identification No.	----	UN number	----
适当海运名称/	----		
Proper Shipping Name	----		
其他信息/ Other information	Documentation justifying the non-dangerous goods properties is available on request. 文件证明非危险品，符合要求。		

海运/ Sea transport (IMDG-code/ IMO)

正确的技术名称	----	IMDG 等级	----
Correct technical name	----	IMDG Class	----
UN 号码/ UN Number	----	包装组成	----
EMS 号/ EMS Number	----	Packaging group	----
其他信息/ Other information	Documentation justifying the non-dangerous goods properties is available on request. 文件证明非危险品，符合要求。		

空运/ Air transport (ICAO-TI/ IATA-DGR)

ICAO-TI/IATA-DGR 等级ICAO-TI/IATA-DGR Class	----	UN 号	----
包装组成	----	UN number	----
Packing group	----		
其他信息/ Other information	Documentation justifying the non-dangerous goods properties is available on request. 文件证明非危险品，符合要求。		



15. 法规信息(REGULATORY INFORMATION)

Safety, health and environmental regulations/legislation specific for the substance or mixture.:

特定于该物质或混合物的安全, 健康和环境法规/法律。

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. WHMIS (Canada) Status: noncontrolled

该产品已根据受控产品法规的危害标准进行分类, 并且SDS包含受控产品法规要求的所有信息。

WHMIS (加拿大) 状态: 不受控制

SARA 311-312 Hazard Classification(s):

SARA311-312危险分类:

fire hazard

火灾隐患

US EPCRA (SARA Title III) Section 313 - Toxic Chemical List

美国环保署(SARA Title III)第313条-有毒化学品清单

NONE

无

OSHA: hazardous

OSHA : 危险

TSCA (US Toxic Substances Control Act): All components of this product are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

TSCA (美国有毒物质管制法) : 该产品的所有成分都列在TSCA清单上。

本产品中存在的任何杂质均可免于上市。

DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act): All

components of this product are listed on the DSL. Any impurities present in this product are exempt from listing.

DSL (加拿大国内物质清单) 和CEPA (加拿大环境保护法) : 此产品的所有组件都列在DSL上。

该产品中存在的任何杂质均不列入清单。

AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): This product is listed on AICS or otherwise complies with NICNAS.

AICS/NICNAS (澳大利亚化学物质清单和国家工业化学品通知和评估计划) : 本产品列入AICS或以其他方式符合NICNAS。

MITI (Japanese Handbook of Existing and New Chemical Substances): This product is listed in the Handbook or has been approved in Japan by new substance notification.

MITI (日本现有和新化学物质手册) : 该产品已列入手册或已在日本通过新物质通知获得批准。

ECL (Korean Toxic Substances Control Act): This product is listed on the Korean inventory or otherwise complies with the Korean Toxic Substances Control Act.

ECL (韩国有毒物质管制法) : 该产品列入韩国库存或以其他方式符合韩国有毒物质管制法。

Philippines Inventory (PICCS) : This product is listed on the Philippine Inventory or otherwise complies with PICCS.

菲律宾库存(PICCS) : 本产品列在菲律宾库存或以其他方式符合PICCS。

Inventory of Existing Chemical Substances in China: All components of this product are listed on the Inventory of



Existing Chemical Substances in China (IECSC).

中国现有化学物质清单：本产品的所有部件均列于中国现有化学物质清单(IECSC)。

16. 其他信息(OTHER INFORMATION)

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

这些信息仅仅涉及以上提到的产品，如果用于其他产品或其他过程，本公司不付任何法律责任。这些信息是我们当前最新最好的资料编写而成，值得信任，但我们不能绝对保证没有错误。它仅仅起到提醒使用者自己使这些信息指导相关产品用于适当的地方。