

**MATERIAL SAFETY DATA SHEET:** According to EC-directive 2001/58/EC**Vulcanization Agent HD 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	HD OT20 (聚合硫) HD 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

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

化学名/ Chemical name	聚合硫/ 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

3. 危险性鉴定(HAZARDS IDENTIFICATION)

根据 EEC 的危险物质指示和危险准备指示没有危害性分类。	Not classified as hazardous according to the EEC Dangerous Substance Directive and Dangerous Preparation Directive.
空气中可能会散布粉尘。	Dust explosion possible in the presence of air.
散布在空气中的粉尘易燃。	Dust suspended in air ignites easily.
燃烧硫会发出有毒气体。	Burning sulfur emits highly toxic gases.

4. 急救措施(FIRST AID MEASURES)

症状和效果/ Symptoms and effects	Dust may be irritating to the respiratory tract and cause symptoms of bronchitis. Ingestion: The product produces characteristic stomach breath odour, nausea or vomiting. Eye: Particulates of the material may cause mechanical irritation. Skin: In case of prolonged contact: Slight irritation. In case of repeated
-----------------------------	---



contact: Risk of dermatitis.

粉尘可能吸入呼吸道，从而导致支气管炎。

摄取：产品的特性会导致胃胀，恶心或呕吐。

急救/ First aid**通常情况/ General**

In all cases of doubt, or when symptoms persist, seek medical attention.

任何可疑情况，或有任何症状出现，请马上找医生咨询。

吸入/ Inhalation

Move to fresh air. If symptoms persist, seek medical advice.

呼吸新鲜空气。如果有持续症状，请马上就医。

皮肤/ Skin

Wash immediately with soap and water. Launder clothes before reuse.立即

用肥皂和清水冲洗。衣物重新使用前必须洗净。

眼睛/ Eye

Rinse thoroughly with plenty of water. Eyelids should be held away from the

eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.

翻开眼睑用清水冲洗干净。

确保洗除残渣。如果出现愤怒症状请就医。

摄取/ Ingestion

Rinse mouth, give water to drink, Seek medical advice.

请漱口，喝水，询医。

医生建议/ Advice to physician

Symptomatic treatment is advised.

有症状时就医。。

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

Large quantities of water, waterspray, water mist, foam, dry chemical powder,
CO₂, sand.

大量水，喷物，水雾，泡沫，干粉灭火器，CO₂

不适用的灭火媒介

waterjet.

/ Unsuitable extinguishing media

水注（流）

Combustible powder. Dust explosion possible in the presence of air. Burns
with nearly invisible flame. Emits toxic and corrosive fumes under fire
conditions.

特殊危险/ Special exposure hazards

易燃粉末。空气中可能会弥漫粉尘。燃烧几乎无火焰。在燃烧时产生电磁和腐
蚀性浓烟。

分解腐烂危险/燃烧产品/**Hazardous decomposition/
combustion products**

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

硫的氧化物：可能导致慢性肺部肿瘤。

保护设备/ Protective equipment

Wear self contained breathing apparatus.

需佩戴空气呼吸器。

Evacuate all non-essential personnel.

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

其他信息/ Other information

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

For personal protection see Section 8.

Avoid dispersing the dust into clouds.

Eliminate all sources of ignition, and do not generate flames or sparks.

对于个人防范请参照第 8 部分。

避免粉尘挥发到空气中。

消除所有火源，不要产生火焰或火花。

环境预防/ Environmental precautions

Do not flush into public water courses. Avoid discharge into the environment.

不要倒入公共水源中。避免流入环境之中。

Collect as much as possible in a clean container for (preferable) reuse or disposal. Do not use hair-brooms and plastic-brooms. Rinse remnant with plenty of water. Refer to section 13 for disposal of spilled material.

清洁处理方法/ Methods for cleaning up

收集尽可能多的清洁用容器（最好能重复使用）用来处理事故。不要使用发刷和塑料刷。用大量的水冲洗残留物。最好参看第 13 部分对于溢出物的处理。

7. 操作处置与储存(HANDLING AND STORAGE)

操作处置/ Handling

Keep away from sources of ignition - No smoking! Use non-sparking handtools. Avoid dispersing the dust into clouds.

Carry out industrial operations in closed piping circuits and equipment. Use electrically conductive materials for piping circuits and equipment.

Avoid contact with eyes.

Good industrial practice in housekeeping and personal hygiene should be followed.

远离火源——不准吸烟！使用不产生火花的工具。避免粉尘挥发到空气中。

实现工业操作管道循环和设备的封闭性。对循环管道和设备使用电导材料。

避免接触眼睛。

好的操作规则和个人卫生习惯应该遵循。



火灾爆炸处理/

Fire and explosion prevention

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 away from sources of heat and ignition. Store away from reactive products (refer to sec. 10). Keep the original package or container closed if not in use. Protect from direct sunlight.

远离热源和火源储存。远离会起反应的产品（最好参看第 10 部分）。如果不用请保持储存产品的袋子或容器封闭。不要放在阳光直射的地方。

储存要求/ Storage requirements

8. 接触控制/个体防护(EXPOSURE CONTROLS/PERSONAL PROTECTION)

工程学控制/ Engineering controls

Avoid dust generation. Ensure good ventilation and local exhaustion of the working area.

避免粉尘产生。确保当地工作场所通风。

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/ Polymeric Sulfur

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

个体防护/ Personal protection

Avoid breathing dust. In case of dust formation use dust mask.

In case of decomposition, face mask with type E-P2 cartridge.

避免吸入粉尘。在产生粉尘的情况下请佩戴防尘面罩。在腐烂分解情况下，佩戴 E-P2 型面罩。

呼吸器/ Respiratory

Wear suitable gloves.

佩戴相应的长手套。

手/ Hand

Wear safety goggles.

佩戴防护眼罩。

眼/ Eye

**敏感性毒害/ Acute toxicity**

口头的/ Oral LD50 老鼠/ rat: >2000 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/ Chronic toxicity: NOEL (No Observable Effect Level) (rat, oral): 500 mg/kg.

Other toxicological information 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 / Insoluble sulfur

生态学/ Ecotoxicity

鱼/ fish 96h-LC50 (Danio rerio): 866 mg/l.

水蚤/ daphnia 24h-EC0 (Daphnia magna): >10.000mg/l.

生物体内积累/ Assimilation and consumption in proteic synthesis

Bioaccumulation 蛋白质合成中同化和消耗。

13. 废弃处理(DISPOSAL CONSIDERATIONS)**产品/ Product**

Small quantities: According to local regulations. (most probably controlled incineration). The incinerator must be equipped with a system for the neutralization of SOx.

Large quantities: Consult Meyors Chemical for special advice.

避免流入环境。

小量: 根据当地规定。(大部分被控制焚化)。焚化炉必须装备 Sox 的中和系统。

大量: 请联系美尔化工获取建议。

According to local regulations.

根据当地规定。

包装污染/ Contaminated packaging**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	----
		Packaging group	
EMS 号/ EMS Number	----		----
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	----	UN 号	----
ICAO-TI/IATA-DGR Class		UN number	
包装组成	----		
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)

化学品描述/ Chemical description	/ Insoluble sulfur
标签根据 EC 指标/ Labelling according to EC directives	
EC 号/ EC-number	See section 2 查看第 2 部分
分级标准/ Classification based on	Tests/ 测试
危险性短语/ R(isk) phrase(s)	None/ 无
安全性短语/ S(afety) phrase(s)	None/ 无

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

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



Operational Office Address: Suite 2610-2611 Foreign Trade Building, 239 Zhongxing Road,
Luohu District, Shen Zhen City, P R of China
Tel: +86-755-8218 4166 Fax: +86-755- 8218 7033
Email: info@meyor.cn URL:

www.rbb.com.cn

make sure that the information is appropriate and complete for his special use of this product. 关产品用于适当的地方。

Meyors