



Operational Office Address: Suite 2610-2611 Foreign Trade Building, 239 Zhongxing Road,

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HS Code: 38121000.00

MATERIAL SAFETY DATA SHEET: According to EC-directive 2001/58/EC

Rubber Accelerator MBTS (DM)

1. 化学品及企业标示(CHEMICAL PRODUCT AND COMPANY IDENTIFICATION)

产品标签名/ Product label name

2,2'-dibenzothiazyl disulfide 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

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产品用途/Intended use 橡胶硫化促进剂/ Rubber Vulcanization accelerator

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

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classifications listed are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200). The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H400, H410.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Toxic to aquatic life with long lasting effects. Skin Sens. 1 H317 May cause an allergic skin reaction.

Information concerning particular hazards for human and environment

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system

The classification is according to the latest editions of the EU-lists, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

2.2 Label elements

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H410.

The product is additionally classified and labelled according to the Globally Harmonized System (GHS) within the United States.

The product is classified and labeled according to the CLP regulation.

Hazard pictograms





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This pictogram only applicable for EU regulations. Not for use in the United States (OSHA GHS)





GHS07

GHS09

Signal word: Warning

Hazard-determining components of labeling: di(benzothiazol-2-yl)

disulphide

Hazard statements
Hazard description
WHMIS-symbols



D2B –Toxic material causing other toxic effects.

NFPA ratings (scale 0-4)

2 0

Health = 2
Fire = 1
Reactivity = 0

HMIS ratings (scale 0-4)

HEALTH 2
FIRE 1
REACTIVITY 0

Fire = 1 Reactivity = 0

Health = 2

HMIS Long Term Health Hazard Substances: Substance is not listed.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

3. 危险性鉴定(HAZARDS IDENTIFICATION)

经常接触可能会导致皮肤过敏。对水生有机体 有危害,对水生环境可能有长期毒害。 Repeated contact may cause skin sensitization.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. 急救措施(FIRST AID MEASURES)

Dust may be irritating to the respiratory tract and cause symptoms of

bronchitis.

症状和效果/ Symptoms and effects Repeated contact may cause skin sensitization.

粉尘可能吸入呼吸道,从而导致支气管炎。

经常接触可能导致皮肤过敏。

急救/ First aid

In all cases of doubt, or when symptoms persist, seek medical attention. 通常情况/ General

任何可疑情况,或有任何症状出现,请马上找医生咨询。





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

呼吸新鲜空气。如果有持续症状,请马上就医。

Remove all contaminated clothing immediately. Wash off with plenty of

soap and water.

皮肤/ **Skin** Seek medical advice if irritation develops. Launder clothes before reuse.

立即移走所有被污染的衣物。用肥皂和清水冲洗。

如果出现愤怒、烦躁症状请立即就医。衣物重新使用前需洗涤干净。

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

the eyeball to

眼睛/ Eye 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。

Rinse mouth, give water to drink.

请漱口,喝水。

No specific recommendations.

医生建议/ Advice to physician 无详细建议。

5. 消防措施(FIRE-FIGHTING MEASURES)

灭火媒介/ Extinguishing media

不适用的灭火媒介

摄取/ Ingestion

/ Unsuitable extinguishing media

特殊危险/ Special exposure hazards

分解腐烂危险/燃烧产品/ Hazardous decomposition/

combustion products

保护设备/ Protective equipment

个人防范/ Personal precautions

环境预防/ Environmental precautions

清洁处理方法/ Methods for cleaning up

其他信息/ Other information

waterspray, water mist, foam, dry chemical powder, CO₂

喷物,水雾,泡沫,干粉灭火器,CO₂

None known

不知。

Emits toxic fumes under fire conditions.

在火灾情况下释放的有毒烟气。

Carbon monoxide (CO), Sulfur oxides (SO_x), nitrous gases

 (NO_x) .

一氧化碳,硫的氧化物,氮的氧化物。

Wear self contained breathing apparatus.

需配戴空气呼吸器。

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

water courses.

避免消防水接触下水道, 土地或水源。

6. 泄露应急处理(ACCIDENTAL RELEASE MEASURES)

For personal protection see Section 8. Avoid dust

generation.

对于个人防范请参照第8部分。避免粉尘的产生。

Avoid discharge into the environment.

避免流入环境之中。

Collect as much as possible in a clean container for

(preferable) reuse or disposal.

尽可能的将其收集在清洁的容器里以便回收或集中处理.





操作处置/ Handling

火灾爆炸处理/

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7. 操作处置与储存(HANDLING AND STORAGE)

Avoid contact with skin. Avoid dust generation.

The usual precautions for handling chemicals should be

避免接触皮肤。避免粉尘。遵循一般化学品的处理方法。

No specific recommendations.

Fire and explosion prevention 没特别建议

Store in a dry and cool place. 储存要求/ Storage requirements

储存于干燥与阴凉的地方。

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

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

名称/ Name 2,2'-二硫代二苯并噻唑

工程学控制/ Engineering controls

2,2'-dibenzothiazyl disulfide

OES-TWA 5.0 mg/m³

个体防护/ Personal protection

皮肤和身体/ Skin and body

手/ Hand

眼/ Eye

Avoid breathing dust. In case of insufficient ventilation, 呼吸器/ Respiratory

wear suitable respiratory equipment.

避免吸入粉尘。在通风不畅的情况下请佩戴相应的呼吸器。

Wear suitable gloves.

佩戴相应的长手套。

Wear safety goggles.

佩戴防护眼罩。

Wear suitable protective clothing.

穿戴相应的保护服装。

9. 物理和化学特性(PHYSICAL AND CHEMICAL PROPERTIES)

外观/ Appearance	Gray white powder 灰白色粉末	颜色/ Colour	Gray white 灰白
气味/ Odour		沸点/ Boiling point	
熔点/ Melting point ≥	166.0℃	闪点/ Flash point	
易燃性/ Flammability		爆炸极限/ Explosion limits	
爆炸性/ Explosive properties		自燃温度/ Auto ignition temperature	
氧化性/ Oxidizing properties		蒸汽压/ Vapour pressure	
比重/ Density	1.45 \sim 1.50g/cm 3 (20 $^{\circ}$ C)	体积密度/ Bulk density	





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溶解性/ Insoluble in water 在其它溶剂中的溶解性 Soluble in Benzene, CS₂ Solubility in water 不溶于水 Solubility in other solvents 溶于苯, CS₂ 分解系数/ PH 值/ pH value 4.5 **Partition coefficient** Residues (150um)% Max 相对蒸汽密度/ (air=1) 0.10 (Max) Relative vapour density 筛余物 粘性/ Viscosity 纯度/Assay content % ≥ 96

10. 稳定性和反应性(STABILITY AND REACTIVITY)

Stable under recommended storage and handling conditions

稳定性/ Stability (see section 7).

推荐的稳定储存和搬运条件(请参照第7部分)

Heating > 100 °C: May catch fire.

应避免的情况/ Conditions to avoid大于 100 °C:可能导致火灾。

No specific recommendations.

无特殊推荐。

腐烂分解毒害性产品/
Thermal decomposition products: carbon monoxide (CO),

nitrous gases (NOx), Sulfur oxides (SOx).

热分解产品:一氧化碳,氮的氧化物,硫的氧化物。

11. 毒理学资料(TOXICOLOGICAL INFORMATION)

名称/ Name 2,2'-二硫代二苯并噻唑/ 2,2'-dibenzothiazyl disulfide

敏感性毒害/ Acute toxicity

应避免的物质/ Materials to avoid

Hazardous decomposition products

口头的/ Oral LD50 老鼠/ rat: >7940 mg/kg.

皮肤的/ Dermal LD50 兔子/ rabbit: >7940 mg/kg.

易愤怒/ Irritation

皮肤/ Skin Slightly irritating to skin but not sufficient for classification.

对皮肤有轻微刺激但未达到分级阶段。

眼睛/ Eye Slightly irritating to eyes but not sufficient for classification.

对眼有轻微刺激但未达到分级阶段。

12. 生态学资料(ECOLOGICAL INFORMATION)

名称/ Name 2,2'-二硫代二苯并噻唑/ 2,2'-dibenzothiazyl disulfide

生态学/ Ecotoxicity

96h-LC50 (Lepomis macrochirus): 82 mg/l.

鱼/ fish 96h-LC50 (Oncorhynchus mykiss): 68mg/l.

96h-LC50 (Pimephales promelas): > 1000 mg/l.

水蚤/ daphnia 48h-EC50 (Daphnia magna): 82 mg/l.

藻类/ algae 96h-IC50 (Selenastrum capricornutum): 0.7mg/l.





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初级生物/ Degradation

不能被轻易分解/ Not readily biodegradable.

Biotic

13. 废弃处理(DISPOSAL CONSIDERATIONS)

Avoid discharge into the environment.

Small quantities: According to local regulations.

Large quantities: Consult Meyors Chemical for special

产品/ Product advice.

避免流入环境。

小量:根据当地规定。

大量:请联系美尔化工获取建议。

According to local regulations.

根据当地规定。

Waste code number: Please refer to your specific industry

in the European Waste Catalogue.

消耗物代码:请联系欧洲在消耗物领域的特殊工业。

14. 运输信息(TRANSPORT INFORMATION)

陆运/ Land transport (ADR/ RID)

包装污染/ Contaminated packaging

其他信息/ Other information

ADR 等级/ ADR class 9 RID 等级/ RID class 9

ADR/RID 包装组成/ 危害鉴定号/

ADR/RID packing group

Hazard Identification No.

物质鉴定号/

Substance Identification No.

3077

UN number

Environmentally hazardous substance, solid, n.o.s.

UN 号

适当海运名称/ (2,2-dibenzothiazyl disulfide)

Proper Shipping Name 环境危害物质,固体,n.o.s

(2,2-二硫代二苯并噻唑)

海运/ Sea transport (IMDG-code/ IMO)

正确的技术名称 IMDG 等级

Correct technical name IMDG Class

包装组成

UN 号码/ UN Number ----- Packaging group

EMS 号/ EMS Number ---- ----

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 Environmentally hazardous substance, Solid

Packing group 对环境有害的物质,固体。

正确的技术名称 Environmentally hazardous substance, solid, n.o.s.

Correct technical name (2,2'-dibenzothiazyl disulfide)

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环境危害物质,固体,n.o.s (2,2'-二硫代二苯并噻唑)

15. 法规信息(REGULATORY INFORMATION)

化学品描述/ Chemical description

2,2'-dibenzothiazyl disulfide

2,2'-二硫代二苯并噻唑

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

安全性短语/ S(afety) phrase(s)

其他信息/ Other information

Annex-1 to directive 67/548/EEC

根据 67/548/EEC 指示

R 43 May cause sensitization by skin contact

May cause long-term adverse effects in the aquatic

危险性短语/ R(isk) phrase(s) environment

R 43 可能导致皮肤接触加剧。

可能导致对水生环境的长期影响。

S 24 Avoid contact with skin

S 37 Wear suitable gloves

S 60 This material and its container must be disposed of

as hazardous waste

S 61 Avoid release to the environment. Refer to special

instructions/Safety data sheets

S 24 避免接触皮肤。

S 37 配戴相应的手套。

S 60 这种物质和其容器必须按照有害物质的原则进行相应

处理。

S 61 避免释放到环境,参照相关指令或安全数据表。

To be displayed on the label: "EC label".

显示在"EC label"标签上。

Wassergefährdungsklasse (WGK) 2 (VwVwS Anhang 4 Nr. 3)

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.

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