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Email: info@meyor.cn URL: www.rbb.com.cn

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

Rubber Accelerator MBT (M)-solvent HS Code: 38121000.00

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

产品标签名/ Product label name
2-硫醇基苯并噻唑

2-Mercaptobenzothiazole

深圳市华起达实业有限责任公司

Meyor Industrial Co.,Ltd

深圳市罗湖区中兴路,外贸集团大厦 2610-2611 室

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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)

化学名/ Chemical name

2-Mercaptobenzothiazole

CAS 编号/ CAS NO. 149-30-4

产品描述/ Chemical description 淡黄色粉末/ Light yellow powder

TSCA NO.编码/ TSCA NO. 无/ none

EINECS 号码/ EINECS NO. 无/ none

其他信息/ Other information C7H5NS2

3. 危险性鉴定(HAZARDS IDENTIFICATION)

3.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS09 Environment

H400 Very toxic to aquatic life.

Aquatic Acute 1
Aquatic Chronic 1

H410 Very toxic to aquatic life with long lasting effects.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC





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Xn; Sensitizing

R43:



N; Dangerous for the environment.

R50/53

Information concerning particular hazards for human and environment: Not applicable.

3.2 Label elements

Labeling according to Regulation (EC) No 1272/2008

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

Hazard pictograms





GHS07

GHS09

Signal word: Warning

Hazard-determining components of labeling: zinc bis (diethyldithiocarbamate)

Hazard statements

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H400

H317 May cause an allergic skin reaction.

H410 Very Toxic to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves and eye protection.

P273 Avoid release to the environment.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations

Additional information: Contains zinc bis (zinc bis (diethyldithiocarbamate)). May produce an allergic reaction.

3.3 Information pertaining to special dangers for human and environment

3.3.1. The most important adverse physicochemical effects:

Not applicable.

3.3.2. The most important adverse human health effects:

May cause an allergic skin reaction.

3.3.3. The most important adverse environmental effects:

Very toxic to acquatic life.

Very toxic to acquatic life with long lasting effects.

3.3.4. Other adverse hazards





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NFPA:Health:3 Flammability:1 Instability:0

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

摄取/ Ingestion

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。

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。

医生建议/ Advice to physician

No specific recommendations.

无详细建议。

5. 消防措施(FIRE-FIGHTING MEASURES)

Waterspray, water mist, foam, dry chemical powder, CO₂ 灭火媒介/ Extinguishing media

喷物,水雾,泡沫,干粉灭火器,CO₂

不适用的灭火媒介 Waterjet.
/ Unsuitable extinguishing media 水柱(流)

Emits toxic fumes under fire conditions.

特殊危险/ Special exposure hazards 在火灾情况下释放的有毒烟气。

分解腐烂危险/燃烧产品/ Carbon monoxide (CO), Sulfur oxides (SO_x), nitrous gases

Hazardous decomposition/ (NO_x).

combustion products ——氧化碳,硫的氧化物,氮的氧化物。

Wear self contained breathing apparatus.

保护设备/ Protective equipment 需配戴空气呼吸器。

Do not allow run-off from fire fighting to enter drains or 其他信息/ Other information

water courses.



个人防范/ Personal precautions

环境预防/ Environmental precautions

清洁处理方法/ Methods for cleaning up



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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.

7. 操作处置与储存(HANDLING AND STORAGE)

操作处置/ **Handling**Avoid contact with skin. Avoid dust generation.

避免接触皮肤。避免粉尘。

Dust/air mixtures may ignite violently upon exposure to

sparks or sources of ignition.

Kst: 185 bar.m/s.

Maximum rate of pressure rise: 1060 bar/s.

Maximum corrected explosion pressure: 7.7 bar.

粉尘/空气 混合物可能会引起猛烈的爆炸。

Kst: 185 bar.m/s

最大压力增长速率: 1060 bar/s. 最大爆炸压力修正值 7.7 bar. Store in a dry and cool place.

储存要求/ Storage requirements

工程学控制/ Engineering controls

Fire and explosion prevention

火灾爆炸处理/

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-硫醇基苯并噻唑

2-Mercaptobenzothiazole

OES-TWA 5.0 mg/m³

个体防护/ Personal protection

呼吸器/ Respiratory

手/ Hand

Avoid breathing dust. In case of insufficient ventilation,

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。

眼/ Eye Wear safety goggles.



皮肤和身体/ Skin and body



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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	Light-yellow powder	颜色/ Colour	Light-yellow
	淡黄色粉末		淡黄
气味/ Odour	Slightly bitter	沸点/ Boiling point	
	味苦		
熔点/ Melting point ≥	167℃	闪点/ Flash point	252 °C
易燃性/ Flammability		爆炸每阻/ Explosion limits	24 = /==3
勿於性/ Fidilinability		爆炸极限/ Explosion limits	21g/m ³
爆炸性/		自燃温度/	650 °C
Explosive properties		Auto ignition temperature	650 C
氧化性/		蒸汽压/ Vapour pressure	
Oxidizing properties		然行压/ Vapour pressure	
比重/ Density	1.42-1.52g/cm ³ (25℃)	体积密度/ Bulk density	
溶解性/	Insoluble in water	在其它溶剂中的溶解性	Soluble in acetone CS ₂
Solubility in water	不溶于水	Solubility in other solvents	溶于丙酮,CS ₂
PH 值/ pH value		分解系数/	Active component: 2.42.
		Partition coefficient	
Residues (150um)% Max	0.10	Assay content%≽	95%
筛余物 Max		纯度 % ≥	
粘性/ Viscosity	7	Oil Content/油含量 %	1.0-2.0

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)
於液体的棒炬/Conditions to sucid	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。
於液在的物质(Materials to svoid	Strong oxidizing agents.
应避免的物质/ Materials to avoid	强氧化剂。
萨松八般李宝林	Thermal decomposition products: carbon monoxide (CO),
腐烂分解毒害性产品/	nitrous gases (NOx), Sulfur oxides (SOx).
Hazardous decomposition products	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-硫醇基苯并噻唑/ 2-Mercaptobenzothiazole

敏感性毒害/ Acute toxicity





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口头的/ Oral LD50 老鼠/ rat: 3800 mg/kg.

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

易愤怒/ Irritation

皮肤/ Skin

眼睛/ Eye

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。

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-硫醇基苯并噻唑/2-Mercaptobenzothiazole

生态学/ Ecotoxicity

96h-LC50 (Lepomis macrochirus): 1.5mg/l.

鱼/ fish 96h-LC50 (Oncorhynchus mykiss): 0.75mg/l.

96h-LC50 (Pimephales promelas): 11 mg/l.

水蚤/ daphnia 48h-EC50 (Daphnia magna): 4.1 mg/l.

藻类/ algae 96h-IC50 (Cell count): 0.25 mg/l.

初级生物/ Degradation

不能被轻易分解/ Not readily biodegradable.

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。
包生运动/ Conteminated pookering	According to local regulations.
包装污染/ Contaminated packaging	根据当地规定。
	Waste code number: Please refer to your specific industry
其他信息/ Other information	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)

D.O.T. Shipping Name	Proper shipping name: Environmentally
	hazardous substance, solid, n.o.s.
	(2-Mercaptobenzothiazole) Packaging group: III
Air - ICAO (international Civil Aviation	Proper shipping name: Environmentally
Organization)	hazardous substance, solid, n.o.s.





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	(2-Mercaptobenzothiazole) Packaging group: III	
Sea - IMDG (International Maritime Dangerous	Proper shipping name:	
Goods)	Environmentally hazardous substance, solid, n.o.s.	
	(2-Mercaptobenzothiazole) Packaging group: III	

15. 法规信息(REGULATORY INFORMATION)

Chemical safety Assessment has been carried out?:No

Relevant Information regarding authorization: Not applicable

Relevant Information regarding restriction:Not applicable

Other EU regulations: Employment restrictions concerning young person must be observed,

For use only by technically qualified individuals.

Other national regulations: Not applicable

16. 其他信息(OTHER INFORMATION)

Relevant R-phrases (number and full text):	R43 May cause sensitization by skin contact.
	R50/53 Very toxic to aquatic organisms, may cause
	long-term adverse effects in the aquatic environment.

The above information has been compiled from what we believe to be credible sources. To our knowledge the information is accurate and reliable, however, it is not guaranteed. Any recommendations issued by HB Chemical personnel or literature is derived from experience and by no means should be taken as fact or construed as a recommendation to violate of any law, regulation or patent. It is the users responsibility to determine the suitability of any HB supplied material in their application. The individual conditions of each customer are well outside of our control and we cannot be held liable for its functionality and use. Please contact our office should you need specific information beyond what is supplied above. As with all Chemical usage safety precautions beyond the stated are highly recommended.