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

Rubber antioxidant MBZ

HS Code: 29339900.99

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

产品标签名/ Product label name	2-巯醇基苯并咪唑锌盐 Zinc salt of 2-mercaptobenzimidazole 深圳市华起达实业有限责任公司 Meyors Chemical INC Limited
供应商/ Supplier	深圳市罗湖区中兴路外贸集团大厦 2610-2611 室 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	橡胶防老剂/ Rubber Antioxidant

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

化学名/ Chemical name	2-巯醇基苯并咪唑锌盐 Zinc salt of 2-mercaptobenzimidazole
CAS 编号/ CAS NO.	583-39-1
产品描述/ Chemical description	白色颗粒/ White granule
TSCA NO. 编码/ TSCA NO.	无/ none
EINECS 号码/ EINECS NO.	无/ none
其他信息/ Other information	Formula: C ₁₄ H ₁₀ N ₄ S ₂ Zn

3. 危险性概述(HAZARDS IDENTIFICATION)

经常接触皮肤，吞食，吸入有害。刺激眼睛， 呼吸道和皮肤。	Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.
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4. 急救措施(FIRST AID MEASURES)

症状和效果/ Symptoms and effects	Repeated contact may cause skin sensitization. 经常接触可能导致皮肤过敏。
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	Remove all contaminated clothing immediately. Wash off with plenty of soap and water. 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。
摄取/ Ingestion	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)

灭火媒介/ Extinguishing media	waterspray, foam, dry chemical powder, CO ₂ 喷物，泡沫，干粉灭火器，CO ₂
不适用的灭火媒介 / Unsuitable extinguishing media	waterjet. 水注（流）
特殊危险/ Special exposure hazards	Harmful solid. Irritant. 有害的固体，刺激物。
分解腐烂危险/燃烧产品/ Hazardous decomposition/ combustion products	Carbon monoxide (CO), nitrous gases (NO _x).Sulfur oxides (SO _x) 一氧化碳，氮的氧化物，硫的氧化物。
保护设备/ Protective equipment	Wear self contained breathing apparatus. 需佩戴空气呼吸器。 Do not allow run-off from fire fighting to enter drains or water courses.
其他信息/ Other information	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)

个人防范/ Personal precautions	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。
环境预防/ Environmental precautions	Avoid discharge into the environment. 避免流入环境之中。
清洁处理方法/ Methods for cleaning up	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	Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. 不要呼入灰尘。不要接触到眼睛，皮肤和衣服。避免长时间反复暴露。
储存要求/ Storage requirements	Store in a dry and cool place. Keep tightly closed. 储存于干燥与阴凉的地方。保持密封。

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	
个人防护/ Personal protection	
呼吸器/ Respiratory	In case of insufficient ventilation, wear suitable respiratory equipment. 在通风不畅的情况下请佩带相应的呼吸器。
手/ Hand	Wear suitable gloves. 佩戴相应的长手套。
眼/ Eye	Wear safety goggles. 佩戴防护眼罩。
皮肤和身体/ Skin and body	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	White granule 白色颗粒	颜色/ Colour	White 白色
气味/ Odor	Flavor bitter 味苦	沸点/ Boiling point	not applicable 不能提供
熔点/ Melting point ≥	240.0℃	闪点/ Flash point	not applicable 不能提供
易燃性/ Flammability	Solid: substance: not (in) flammable.	爆炸极限/ Explosion limits	not applicable 不能提供
爆炸性/ Explosive properties	Dust:dust-explosion hazard(灰尘爆炸危险)	分解温度/ Decomposition temperature	300℃
氧化性/ Oxidizing properties	not applicable 不适用	锌含量/ Zinc content% Max	15.0-20.0
比重/ Density	not applicable 不能提供	颗粒强度/ Strength of grain (N)	0.6-2.5
溶解性/ Solubility in water	None	在其它溶剂中的溶解性/ Solubility in other solvents	Acetone, Ethanol 丙酮, 乙醇
PH 值/ pH value	not applicable 不能提供	分解系数/ Partition coefficient	not applicable 不能提供



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n-octanol/water	not applicable 不能提供	加热减量 Heating Loss % Max	0.5
粘性/ Viscosity	not applicable/不能提供	纯度/Assay content % \geq	95

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). 推荐的稳定储存和搬运条件（请参照第 7 部分）
应避免的情况/ Conditions to avoid	No specific recommendations. 无特殊推荐。
应避免的物质/ Materials to avoid	Strong oxidizing agents, strong acids. 强氧化剂，强酸。
腐烂分解毒害性产品/ Hazardous decomposition products	Thermal decomposition products: carbon monoxide (CO), nitrous gases (NO _x), Sulfur oxides (SO _x). 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-硫醇基苯咪唑锌盐 Zinc salt of 2-mercaptobenzimidazole
敏感性毒害/ Acute toxicity	
口头的/ Oral LD50	Rat: 300 mg/kg Mouse: 750 mg/kg
皮肤的/ Dermal LD50	-----
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-硫醇基苯咪唑锌盐 Zinc salt of 2-mercaptobenzimidazole
生态学/ Ecotoxicity	
鱼/ fish	-----
水蚤/ daphnia	-----
藻类/ algae	-----
Fate	



初级生物/ Degradation
Biotic

不能被轻易分解/ Not readily biodegradable.

13. 废弃处理(DISPOSAL CONSIDERATIONS)

产品/ Product	Avoid discharge into the environment. Small quantities: According to local regulations. Large quantities: Consult Meyors Chemical for special 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。
包装污染/ Contaminated packaging	According to local regulations. 根据当地规定。
其他信息/ Other information	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)			
ADR 等级/ ADR class	not restricted	RID 等级/ RID class	not restricted
ADR/RID 包装组成/ ADR/RID packing group	III	危害鉴定号/ Hazard Identification No.	---
物质鉴定号/ Substance Identification No.	3077	UN 号 UN number	3077
适当海运名称/ Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s. (Zinc salt of 2-mercaptobenzimidazole) 环境危害物质, 固体, n.o.s 2-硫醇基苯并咪唑锌盐		
海运/ Sea transport (IMDG-code/ IMO)			
正确的技术名称 Correct technical name	---	IMDG 等级 IMDG Class	none
UN 号码/ UN Number	Not relevant	包装组成 Packaging group	III
EMS 号/ EMS Number	Not relevant		---
空运/ Air transport (ICAO-TI/ IATA-DGR)			
ICAO-TI/IATA-DGR 等级 ICAO-TI/IATA-DGR Class	not restricted	UN 号 UN number	3077
包装组成 Packing group	Environmentally hazardous substance, Solid 对环境有害的物质, 固体。		
正确的技术名称 Correct technical name	Environmentally hazardous substance, solid, n.o.s. (Zinc salt of 2-mercaptobenzimidazole) 环境危害物质, 固体, n.o.s		

**15. 法规信息(REGULATORY INFORMATION)**

化学品描述/ Chemical description	Zinc salt of 2-mercaptobenzimidazole 2-硫醇基苯并咪唑锌盐
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	Annex-1 to directive 67/548/EEC 根据 67/548/EEC 指示 R 20/21/22 36/37/38 Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.
危险性短语/ R(isk) phrase(s)	R 20/21/22 36/37/38 吸入, 接触皮肤, 吞食有害。刺激眼睛, 呼吸道, 皮肤。 S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
安全性短语/ S(afety) phrase(s)	S 36 Wear suitable protective clothing. S 24 接触到眼睛立即用水冲洗, 遵循医嘱。 S 37 穿着合适的防护服。
其他信息/ Other information	To be displayed on the label: "EC label". 显示在"EC label"标签上。
Wassergefährdungsklasse (WGK)	-----

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。