

**MATERIAL SAFETY DATA SHEET:** According to EC-directive 2001/58/EC**Rubber Accelerator TBzTD****HS Code: 29309090.90****1. 化学品及企业标示(CHEMICAL PRODUCT AND COMPANY IDENTIFICATION)**

产品标签名/ Product label name	二硫化四苄基秋兰姆 Tetrabenzyl Thiuram Disulfide 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	橡胶硫化促进剂/ Rubber Vulcanization accelerator

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

化学名/ Chemical name	二硫化四苄基秋兰姆 Tetrabenzyl Thiuram Disulfide
CAS 编号/ CAS NO.	10591-85-2
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	C ₃₀ H ₂₈ N ₂ S ₄

3. 危险性鉴定(HAZARDS IDENTIFICATION)

对水生环境可能有长期毒害。	May cause long-term adverse effects in the aquatic environment.
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4. 急救措施(FIRST AID MEASURES)

症状和效果/ Symptoms and effects	May cause alcohol intolerance. 可能导致对酒精的不耐性
急救/ First aid	
通常情况/ General	Do not drink alcohol after exposure. 和本品接触后不要马上喝酒。
吸入/ Inhalation	not applicable..
皮肤/ Skin	Wash off with plenty of soap and water.



	用肥皂和清水冲洗。
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. 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, water mist, foam, dry chemical powder, CO ₂ 喷物，水雾，泡沫，干粉灭火器，CO ₂
不适用的灭火媒介 / Unsuitable extinguishing media	None known 不知。
特殊危险/ Special exposure hazards	None known 不知。
分解腐烂危险/燃烧产品/ Hazardous decomposition/ combustion products	Hydrogen cyanide (HCN), sulphur dioxide (SO ₂), nitrous gases (NO _x). 氰氢酸，二氧化硫，氮的氧化物。
保护设备/ Protective equipment	Wear self contained breathing apparatus. 需配戴空气呼吸器。
其他信息/ Other information	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)

个人防护/ Personal precautions	For personal protection see Section 8. Avoid dust generation. 对于个人防护请参照第 8 部分。避免粉尘的产生。
环境预防/ Environmental precautions	Do not flush into public water courses. 不要将废弃物丢弃在公共水域。
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	The usual precautions for handling chemicals should be observed. 应该遵循处理一般化学物品的预防措施。
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火灾爆炸处理/ Fire and explosion prevention	No specific recommendations. 没什么特别建议。
储存要求/ Storage requirements	Store in a dry and cool place. 储存于干燥与阴凉的地方。

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

工程学控制/ Engineering controls	No specific recommendations. 没特殊建议。
暴露限制/ Exposure limits	
名称/ Name: 二硫化四苄基秋兰姆 Tetrabenzyl Thiuram Disulfide	10.0 mg/m ³ (total inhalable dust)
个体防护/ Personal protection	
呼吸器/ Respiratory	No specific recommendations. 没详细建议。
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	Light yellow powder 淡黄色粉末	颜色/ Colour	Light-yellow 淡黄
气味/ Odour	Odorless 无味	沸点/ Boiling point	---
熔点/ Melting point ≥	128℃	闪点/ Flash point	147-149 °C.
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	1.50 g/cm ³ (20℃)	体积密度/ Bulk density	
溶解性/ Solubility in water	Insoluble in water 不溶于水	在其它溶剂中的溶解性 Solubility in other solvents	Not determined
PH 值/ pH value	---	分解系数/ Partition coefficient	---
Residues (150um)% Max 筛余物	0.1(Max)	相对蒸汽密度/ (air=1) Relative vapour density	



粘性/ Viscosity	---	纯度/Assay content % \geq	95
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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	Oxidizing agents. 氧化剂。
腐烂分解毒性产品/ Hazardous decomposition products	No hazardous decomposition products known.. 目前所知无危险分解品。

11. 毒理学资料(TOXICOLOGICAL INFORMATION)

名称/ Name	二硫化四苄基秋兰姆/ Tetrabenzyl Thiuram Disulfide
敏感性毒害/ Acute toxicity	
口头的/ Oral LD50	老鼠/ rat: >5000mg/kg.
吸入/inhalation LD50	老鼠/rat 4 hours: >5 mg/l.
易愤怒/ Irritation	
皮肤/ Skin	Practically non-irritating.. 几乎无刺激。
眼睛/ Eye	Practically non-irritating. 几乎无刺激。

12. 生态学资料(ECOLOGICAL INFORMATION)

名称/ Name	二硫化四苄基秋兰姆/ Tetrabenzyl Thiuram Disulfide
生态学/ Ecotoxicity	
鱼/ fish	96h-LC50 (Poecilia reticulata): >32 mg/l.
水蚤/ daphnia	48h-EC50 (Daphnia magna): >100 mg/l.
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。
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包装污染/ Contaminated packaging	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。
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	9	RID 等级/ RID class	9
ADR/RID 包装组成/ ADR/RID packing group	----	危害鉴定号/ Hazard Identification No.	90
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. (Tetrabenzyl Thiuram Disulfide) 环境有害物质, 固体, n.o.s (二硫化四苄基秋兰姆)		

海运/ Sea transport (IMDG-code/ IMO)

正确的技术名称 Correct technical name	----	IMDG 等级 IMDG Class	----
UN 号码/ UN Number	-----	包装组成 Packaging group	----
EMS 号/ EMS Number	----		----

空运/ Air transport (ICAO-TI/ IATA-DGR)

ICAO-TI/IATA-DGR 等级 ICAO-TI/IATA-DGR Class	9	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。 Environmentally hazardous substance, solid, n.o.s.		
正确的技术名称 Correct technical name	(Tetrabenzyl Thiuram Disulfide) 环境有害物质, 固体, n.o.s (二硫化四苄基秋兰姆)		

15. 法规信息(REGULATORY INFORMATION)

化学品描述/ Chemical description	Tetrabenzyl Thiuram Disulfide 二硫化四苄基秋兰姆
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 43 May cause sensitization by skin contact May cause long-term adverse effects in the aquatic environment
危险性短语/ R(isk) phrase(s)	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
安全性短语/ S(afety) phrase(s)	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。
其他信息/ Other information	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.

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。