

**MATERIAL SAFETY DATA SHEET:** According to EC-directive 2001/58/EC**Rubber Accelerator TMTD-80****HS Code: 38121000.00****1. 化学品及企业标示(CHEMICAL PRODUCT AND COMPANY IDENTIFICATION)**

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| 产品标签名/ Product label name | TMTD-80 |
| 供应商/ Supplier | 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 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)

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| 化学名/ Chemical name | 80%二硫化四甲基秋兰姆 Tetramethyl Thiuram Disulfide 20% EPDM |
| CAS 编号/ CAS NO. | 137-26-8 |
| 产品描述/ Chemical description | 淡黄色颗粒/ Light yellow granule |
| TSCA NO. 编码/ TSCA NO. | 无/ none |
| EINECS 号码/ EINECS NO. | 无/ none |

3. 危险性鉴定(HAZARDS IDENTIFICATION)

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| 可能刺激眼睛,引起呼吸困难, 可能刺激皮肤。 | May cause irritation to eyes, skin and respiratory tract May cause allergic skin reaction. |
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4. 急救措施(FIRST AID MEASURES)

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| 症状和效果/ Symptoms and effects | May cause alcohol intolerance. Harmful by inhalation and if swallowed. Repeated contact may cause skin sensitization. 可能导致对酒精不耐性, 吸入或吞下有害。 经常接触可能导致皮肤过敏。 |
| 急救/ First aid | Do not drink alcohol after exposure.. |
| 通常情况/ General | 在接触本产品后不要马上喝酒。 |
| 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。 |



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| 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)

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| 灭火媒介/ Extinguishing media | Waterspray, water mist, foam, dry chemical powder, CO ₂ 喷水，水雾，泡沫，干粉灭火器，CO ₂ |
| 特殊危险/ Special exposure hazards | None |
| 分解腐烂危险/燃烧产品/ Hazardous decomposition/ combustion products | 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。 |
| 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)

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| 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 | Do not discharge into sewer. 不要将废弃物丢到下水道。 |
| 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)

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| 操作处置/ Handling | Avoid contact with skin. Avoid dust generation. 避免接触皮肤。避免粉尘。 |
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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 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。

个体防护/ 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戴相应的呼吸器。

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)

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| 外观/ Appearance | Light yellow granule 淡黄色颗粒 | 颜色/ Colour | Light yellow 淡黄色 |
| 气味/ Odour | ---- | 沸点/ Boiling point | ---- |
| 熔点 (活性 TMTD) / Melting point(active TMTD) | ≥142°C | 闪点/ Flash point | Approx.138 °C |
| 易燃性/ Flammability | ---- | 爆炸极限/ Explosion limits | ---- |
| 爆炸性/ Explosive properties | Dust explosion hazard 粉尘爆炸危险 | 自燃温度/ Auto ignition temperature | > 200 °C |
| 氧化性/ Oxidizing properties | ---- | 蒸汽压/ Vapour pressure | ---- |
| 比重/ Density | 1.28±0.04 g/cm ³ | 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 | acetone,aether,chloroform 丙酮, 乙醚, 氯仿 |
| 门尼粘度/ Mooney Viscosit(ML 1+4@50 °C) < | 45±10 | 分解系数/ Partition coefficient | ---- |
| 粘性/ Viscosity | | Residues (100um)% Max 筛余物 | 0.1(Max) |

10. 稳定性和反应性(STABILITY AND REACTIVITY)



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| 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 | None 无特殊推荐。 |
| 应避免的物质/ Materials to avoid | Avoid exposure to: oxidizing agents, strong acid. 避免与氧化剂和强酸接触。 |
| 腐烂分解毒害性产品/ Hazardous decomposition products | No hazardous decomposition products known. 无危险分解品。 |

11. 毒理学资料(TOXICOLOGICAL INFORMATION)

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| 名称/ Name | TMTD-80 |
| 敏感性毒害/ Acute toxicity | |
| 口头的/ Oral LD50 | 老鼠/ rat: 1075 mg/kg. |
| 皮肤的/ Dermal LD50 | 兔子/ rabbit: >7940 mg/kg. |
| 吸入/Inhalation LC50 | 老鼠/rat: 4.42 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)

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| 名称/ Name | TMTD-80 |
| 生态学/ Ecotoxicity | |
| 鱼/ fish | 96h-LC50 (Lepomis macrochirus): 0.13mg/l. 96h-LC50 (Oncorhynchus mykiss): 0.13 mg/l. 96h-LC50 (Pimephales promelas): 0.27 mg/l. |
| 水蚤/ daphnia | 48h-EC50 (Daphnia magna): 0.24 mg/l. |
| 藻类/ algae | 96h-IC50 (Selenastrum capricornutum): 1.0 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)

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| 产品/ Product | Avoid discharge into the environment. Small quantities: According to local regulations. Large quantities: Consult Meyors Chemical for special |
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| <p>包装污染/ Contaminated packaging</p> <p>其他信息/ Other information</p> | <p>advice.</p> <p>避免流入环境。</p> <p>小量：根据当地规定。</p> <p>大量：请联系美尔化工获取建议。</p> <p>According to local regulations.</p> <p>根据当地规定。</p> <p>Waste code number: Please refer to your specific industry in the European Waste Catalogue.</p> <p>消耗物代码：请联系欧洲在消耗物领域的特殊工业。</p> |
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14. 运输信息(TRANSPORT INFORMATION)

陆运/ Land transport (ADR/ RID)

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| <p>ADR 等级/ ADR class -</p> <p>ADR/RID 包装组成/ ADR/RID packing group ----</p> <p>物质鉴定号/ Substance Identification No. -</p> <p>适当海运名称/ Proper Shipping Name (TMTD-80)</p> | <p>RID 等级/ RID class -</p> <p>危害鉴定号/ Hazard Identification No. -</p> <p>UN 号 UN number -</p> |
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海运/ Sea transport (IMDG-code/ IMO)

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| <p>正确的技术名称 Correct technical name ----</p> <p>UN 号码/ UN Number ----</p> <p>EMS 号/ EMS Number ----</p> | <p>IMDG 等级 IMDG Class ----</p> <p>包装组成 Packaging group ----</p> |
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空运/ Air transport (ICAO-TI/ IATA-DGR)

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| <p>ICAO-TI/IATA-DGR 等级 ICAO-TI/IATA-DGR Class -</p> <p>包装组成 Packing group -</p> <p>正确的技术名称 Correct technical name (TMTD-80)</p> | <p>UN 号 UN number -</p> |
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15. 法规信息(REGULATORY INFORMATION)

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| <p>化学品描述/ Chemical description</p> <p>标签根据 EC 指标/ Labelling according to EC directives</p> <p>EC 号/ EC-number</p> <p>分级标准/ Classification based on</p> | <p>TMTD-80</p> <p>See section 2 查看第 2 部分</p> <p>Annex-1 to directive 67/548/EEC</p> |
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| | 根据 67/548/EEC 指示 |
| 危险性短语/ R(isk) phrase(s) | R 43 May cause sensitization by skin contact R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R 43 可能导致皮肤接触加剧。 R 50/53 对水生有机体有巨毒，可能导致对水生环境的长期影响。 |
| 安全性短语/ S(afety) phrase(s) | 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。 |
| 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 3, Nr. 6605) |

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。