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HS Code: 38121000.00

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

Rubber Accelerator DPTT(TRA)

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

产品标签名/ Product label name

四硫化双五亚甲基秋兰姆

Dipentamethylen ethiuram tetrasulfide

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

供应商/ Supplier 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 四硫化双五亚甲基秋兰姆

Dipentamethylen ethiuram tetrasulfide

CAS 编号/ **CAS NO**. 971-15-3

产品描述/ Chemical description 黄色粉末/ Yellow powder

TSCA NO.编码/ TSCA NO. 无/ none

EINECS 号码/ EINECS NO. 无/ none

其他信息/ Other information C₁₂H₂0N₂S₈

3. 危险性鉴定(HAZARDS IDENTIFICATION)

3.1 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:

H411

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

Acute Tox. 4 H302 Harmful if swallowed.

Eye Irrit. 2 H319 Causes serious eye irritation.

Information concerning particular hazards for human and environment: Not appliable

3.2 Label elements





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Labeling according to Regulation (EC) No 1272/2008

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.

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

The substance is classified and labeled according to the CLP regulation Hazard pictograms





GHS07 GF

Signal word: Warning

Hazard-determining components of labeling: Dipentamethylenethiuram Tetrasulfide

Hazard statements

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.

H302 Harmful if swallowed.

H319 Causes serious eye irritation

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash thoroughly after handling.

P301+P312 IF SWALLOWED: Calla POISON CENTER or doctor/physician if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continuerinsing.

Additional information:

EUH031 Contact with acids liberates toxic gas.

Hazard description

NFPA ratings (scale 0-4)



Health = 2

Fire = 1 Reactivity = 0

Health = 2

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Fire = 1

Reactivity = 0

HMIS ratings (scale 0-4)

FIRE 1

REACTIVITY 0

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

3.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.





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4. 急救措施(FIRST AID MEASURES)

No typical symptoms and effects known. 症状和效果/ Symptoms and effects

目前所知没有典型的症状和效果

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。

Not applicable.

吸入/ Inhalation不适用。

皮肤/ **Skin** Wash immediately with plenty of soap and water.

立即用肥皂和清水冲洗。

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)

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

Waterjet.

喷物,水雾,泡沫,干粉灭火器,CO₂

不适用的灭火媒介

摄取/ Ingestion

/ Unsuitable extinguishing media

g media 水注(流) None known

特殊危险/ Special exposure hazards

不知。

分解腐烂危险/燃烧产品/

Hydrogen cyanide (HCN), sulphur dioxide (SO2), nitrous gases

Hazardous decomposition/ (NO_x).

combustion products

保护设备/ Protective equipment

氰氢酸, 二氧化硫, 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

其他信息/ Other information 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。

Avoid discharge into the environment. 环境预防/ Environmental precautions

避免流入环境之中。





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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)

清洁处理方法/ Methods for cleaning up

The usual precautions for handling chemicals should be observed. 操作处置/ Handling

应该遵循一般化学物品的预防措施

火灾爆炸处理/ No specific recommendations.

Fire and explosion prevention 无详细建议

储存要求/ Storage requirementsStore 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)

No specific recommendations.

无特别建议。

暴露限制/ Exposure limits

工程学控制/ Engineering controls

名称/ Name: 四硫化双五亚甲基秋兰姆

Dipentamethylen ethiuram tetrasulfide

OES-TWA 10.0 mg/m³ (total inhalable dust)

个体防护/ Personal protection

呼吸器/ Respiratory

No specific recommendations.

无特别建议。

手/ Hand No specific recommendations..

无特别建议。

眼/ Eye No specific recommendations.

无特别建议。

皮肤和身体/ **Skin and body**No specific recommendations.

无特别建议。

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

外观/ Appearance	Yellow powder 黄色粉末	颜色/ Colour	Yellow 黄色
气味/ Odour		沸点/ Boiling point	
熔点/ Melting point ≥	110℃	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	





PH 值/ pH value

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比重/ Density 1.45 g/cm³ (25°C) 体积密度/ Bulk density

溶解性/ 在其它溶剂中的溶解性 Insoluble in water acetone, CS2 Solubility in water 不溶于水

Solubility in other solvents 丙酮, CS₂

分解系数/

Partition coefficient

Residues (150um)% Max 相对蒸汽密度/ (air=1) 0.10

筛余物 Max Relative vapour density

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)

No specific recommendations.. 应避免的情况/ Conditions to avoid

无详细建议。

No specific recommendations. 应避免的物质/ Materials to avoid

无特殊推荐。

No hazardous decomposition products known. 腐烂分解毒害性产品/

目前所知无危险分解品 Hazardous decomposition products

11. 毒理学资料(TOXICOLOGICAL INFORMATION)

四硫化双五亚甲基秋兰姆/ Dipentamethylen ethiuram tetrasulfide 名称/ Name

敏感性毒害/ Acute toxicity

口头的/ Oral LD50 老鼠/ rat: >5000 mg/kg.

易愤怒/ Irritation

产品/ Product

Practically non-irritating. 皮肤/ Skin

几乎没刺激

Practically non-irritating.

眼睛/ Eye 几乎无刺激。

12. 生态学资料(ECOLOGICAL INFORMATION)

No experimental ecological data are available on the preparation as such 无生态学数据。

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 advice.

避免流入环境。





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当地规定。	
长美尔化工获取建议。	
local regulations.	
芒 。	
Waste code number: Please refer to your specific industry in the	
European Waste Catalogue.	
请联系欧洲在消耗物领域的特殊工业。	

14. 运输信息(TRANSPORT INFORMATION)







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14.1 UN-Number	
DOT,	N/A
ADR, IMDG, IATA	
14.2 UN proper shipping name:	
DOT	N/A
ADR	(benzothiazole-2-thiol)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (benzothiazole-2-thiol), MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCESOLID,
	N.O.S (benzothiazole-2-thiol)
14.3 Transport hazard class(es)	
DOT,Class ADR	N/A
♣	Label:9
	Label: 9
14.4 Packing group	
DOT ADR,IMDG,IATA	N/A
	Product contains environmentally hazardous substances:
14.5 Environmental hazards	(benzothiazole-2-thiol)
Marine pollutant	Yes
	Symbol(fish and tree)
Special Marking (ADR)	Symbol(fish and tree)
Special Marking (IATA)	Symbol(fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articless
Danger code (Kemler)	
EMS Number	F-A, S-F.
	of MARPOL73/78 and the IBC Code: Not applicable.
Transport/Additional information	
ADR	
Limited quantities (LQ)	5kg
Transport category	3
Tunnel restriction code	E
UN "Model Regulation"	(benzothiazole-2-thiol)

15. 法规信息(REGULATORY INFORMATION)

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

United States (USA)	
SARA Section 355 (extremely hazardous substances)	None of the ingredients is listed.





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SARA Section 313 (Specific toxic chemical listings)	149-30-4 benzothiazole-2-thiol.
TSCA (Toxic Substances Control Act)	149-30-4 benzothiazole-2-thiol.
Proposition 65 (California)	unoi.
Chemicals known to cause cancer	None of the ingredients is listed
Chemicals known to cause reproductive toxicity for females	None of the ingredients is listed
Chemicals known to cause reproductive toxicity for males	None of the ingredients is listed.
Chemicals known to cause developmental toxicity	None of the ingredients is listed
Carcinogenic Categories	
EPA (Environmental Protection Agency)	None of the ingredients is listed
IARC (International Agency for Research on Cancer)	None of the ingredients is listed
TLV (Threshold Limit Value established by ACGIH)	None of the ingredients is listed
NIOSH-Ca (National Institute for Occupational Safety and Health)	None of the ingredients is listed
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingredients is listed
Canada	1
Canadian Domestic Substances List (DSL)	149-30-4 benzothiazole-2 thiol.
Canadian Ingredient Disclosure list (limit 0.1%)	None of the ingredients is listed.
Canadian Ingredient Disclosure list (limit 1%)	None of the ingredients is listed

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. 其他信息(OTHER INFORMATION)

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous

Goods DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals ACGIH: American Conference of Governmental Industrial

Hygienists





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EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System

(Canada) DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)

