



Operational Office Address: Suite 2610-2611 Foreign Trade Building, 239 Zhongxing Road, Luohu District, Shen Zhen City, PR of China

Tel: +86-755-8218 4166 Fax: +86-755-8218 7033

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

HS Code: 38121000.00

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

Rubber Accelerator TBzTD

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

二硫化四苄基秋兰姆 产品标签名/ Product label name

Tetrabenzyl Thiuram Disulfide 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

+86-755-82190130 紧急电话/ Emergency telephone

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)

二硫化四苄基秋兰姆 化学名/ Chemical name

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 C30H28N2S4

3. 危险性鉴定(HAZARDS IDENTIFICATION)

3.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H400,H410.



GHS09 Environment

H400 Very toxic to aquatic life.

Aquatic Chronic 2

Aquatic Acute 1

H410 Very toxic to aquatic life with long lasting effects.

GHS07



Acute Tox.4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation.

Eves Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335 May cause respiratory irritation.





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



Xn; Sensitizing May cause sensitization by inhalation and skin contact. R42/43:



Xi; Irritant Irritating to eyes, respiratory system and skin. R36/37/38:



N; Dangerous for the Very toxic to aquatic organisms; may cause long-term adverse effects environment.

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

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

Hazard pictograms



This pictogram only applicable for EU regulations. Not for use in the United States (OSHA GHS)





Signal word: Warning

Hazard-determining components of labeling: Tetrabenzyl Thiuram Disulfide

Hazard statements

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

H302 Harmful if swallowed

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H410 Very Toxic to aquatic life with long lasting effects.

Precautionary statements

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

P280 Wear protective gloves and eye protection.

P273 Avoid release to the environment.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.





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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P362 Take off contaminated clothing and wash before reuse

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

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P363 Wash contaminated clothing before reuse.

P332+P313 If skin irritation occurs: Get medical advice/attention.

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

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

P330 Rinse mouth.

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

P391 Collect spillage.

P405 Store locked up.

P403+P233 Store in well-ventilated place. Keep container tightly closed.

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

Additional information: Contains Tetrabenzyl Thiuram Disulfide. May produce an allergic reaction.

Hazard description

WHMIS-symbols



D2B -Very toxic material causing other toxic effects

NFPA ratings (scale 0-4)

HMIS ratings (scale 0-4)



HEALTH	2	
FIRE	1	
REACTIVITY	0	

Health = 2

Fire = 1

Reactivity = 0

Health = 2

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.

4. 急救措施(FIRST AID MEASURES)

症状和效果/ Symptoms and effectsMay cause alcohol intolerance.
可能导致对酒精的不耐性

急救/ First aid

Do not drink alcohol after exposure. 通常情况/ General

和本品接触后不要马上喝酒。





摄取/ Ingestion

Meyor Industrial Co.,Ltd

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吸入/ Inhalation Not applicable

不适用。

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

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)

其他信息/ Other information

个人防范/ Personal precautions

环境预防/ Environmental precautions

清洁处理方法/ Methods for cleaning up

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 None known

/ Unsuitable extinguishing media 不知。

特殊危险/ Special exposure hazards

Emits toxic fumes under fire conditions.

在火灾情况下释放的有毒烟气。

分解腐烂危险/燃烧产品/
Hydrogen cyanide (HCN), sulphur dioxide (SO₂), nitrous

Hazardous decomposition/ gases (NO_x).

combustion products 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。

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)

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。

Do not flush into public water courses.

不要将废弃物丢弃在公共水域。

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.





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应该遵循处理一般化学物品的预防措施。

火灾爆炸处理/ No specific recommendations.

Fire and explosion prevention 没什么特别建议。

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. 工程学控制/ Engineering controls

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/m³ (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		体积密度/ Bulk density	
溶解性/	Insoluble in water	在其它溶剂中的溶解性	Not determined
Solubility in water	不溶于水	Solubility in other solvents	Not determined
PH 值/ pH value		分解系数/ Partition coefficient	





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Residues (150um)% Max 相对蒸汽密度/ (air=1) 0.1(Max)

筛余物 Relative vapour density

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 无特殊推荐。

プロイリンド1年1子。

Oxidizing agents.

氧化剂。

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

Hazardous decomposition products 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

应避免的物质/ Materials to avoid

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。

Practically non-irritating. 眼睛/ Eye

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

96h-LC50 (Poecilia reticulata): >32 mg/l.

48h-LC50 (Poecilia reticulata):

水蚤/ daphnia 48h-EC50 (Daphnia magna): >100 mg/l.

初级生物/ Degradation

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.





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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。

According to local regulations.

根据当地规定。

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)

包装污染/ Contaminated packaging

其他信息/ Other information





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14.1 UN-Number			
DOT, ADR, IMDG, IATA	Not regulated		
14.2 UN proper shipping name:			
DOT	Not regulated		
ADR	(Tetrabenzyl Thiuram Disulfide)		
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Tetrabenzy Thiuram Disulfide), MARINE POLLUTANT		
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Tetrabenzy Thiuram Disulfide)		
14.3 Transport hazard class(es)			
DOT Class ADR	Not regulated		
	Label: 9		
♠			
14.4 Packing group			
DOT	N/A		
ADR, IMDG, IATA			
14.5 Environmentalhazards	Product contains environmentally hazardous substances:(Tetrabenzyl Thiuram Disulfide)		
Marine pollutant	Yes Symbol (fish and tree)		
SpecialMarking(ADR)	Symbol(fishandtree)		
SpecialMarking(IATA)	Symbol(fishandtree)		
14.6.Special precautionsfor user	Warning: Miscellaneous dangerous substances and articles.		
Danger code (Kemler)			
EMS Number	F-A,S-F		
14.7 Transport in bulk according to Annex II	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"	(Tetrabenzyl Thiuram Disulfide)		

15. 法规信息(REGULATORY INFORMATION)

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture United States (USA)

Substance is not listed.
Substance is listed.
•
Substance is not listed.
Substance is not listed.





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IARC (International Agency for Research on Cancer)	Substance is not listed.
TLV (Threshold Limit Value established by ACGIH)	Substance is not listed.
NIOSH-Ca (National Institute for Occupational Safety and Health)	Substance is not listed.
OSHA-Ca (Occupational Safety & Health Administration)	Substance is not listed.
Canada	
Canadian Domestic Substances List (DSL)	Substance is listed.

Canadian Ingredient Disclosure list (limit 0.1%)

Canadian Ingredient Disclosure list (limit 1%)

Substance is not listed.

10591-85-2,Tetrabenzyl
Thiuram Disulfide

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

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。