

MATERIAL SAFETY DATA SHEET

: According to EC-directive 2001/58/EC

Rubber Accelerator TMTD(TT)

HS Code: 29309090.90

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name	Tetramethyl Thiuram Disulfide
Supplier	Qingdao YLSCH Industry&Trade Co.,Ltd Room 501,2-3 Unit. No.8,Zhengzhou Road, Qingdao,China. TEL: +86 18661665800
Emergency telephone	TEL: +86 18661665800
Intended use	Rubber Vulcanization Accelerator

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	二硫化四甲基秋兰姆 Tetramethyl Thiuram Disulfide
CAS NO.	137-26-8
Chemical description	Light gray powder
TSCA NO.	none
EINECS NO.	none
Other information	C ₆ H ₁₂ N ₂ S ₄

3. HAZARDS IDENTIFICATION

Repeated contact may cause skin sensitization. May toxic to aquatic organisms, May cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Symptoms and effects	May cause alcohol intolerance. Harmful by inhalation and if swallowed. Repeated contact may cause skin sensitization.
First aid	
General	Do not drink alcohol after exposure.

Inhalation	Move to fresh air. If symptoms persist, seek medical advice.
Skin	Remove all contaminated clothing immediately. Wash off with plenty of soap and water. Seek medical advice if irritation develops. Launder clothes before reuse.
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.
Ingestion	Rinse mouth, give water to drink.
Advice to physician	No specific recommendations.

5. FIRE-FIGHTING MEASURES

Extinguishing media	Waterspray, water mist, foam, dry chemical powder, CO ₂
Unsuitable extinguishing media	Waterjet.
Special exposure hazards	Emits toxic fumes under fire conditions.
Hazardous decomposition/ Combustion products	Carbon monoxide (CO), Sulfur oxides (SO _x), nitrous gases (NO _x).
Protective equipment	Wear self contained breathing apparatus.
Other information	Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	For personal protection see Section 8. Avoid dust generation.
Environmental precautions	Do not discharge into sewer.
Methods for cleaning up	Collect as much as possible in a clean container for (preferable) reuse or disposal.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin. Avoid dust generation. Dust/air mixtures may ignite violently upon exposure to sparks or sources of ignition. Dust explosion class (VDI 2263): St 2.
Fire and explosion prevention	Kst: 239 bar.m/s Maximum rate of pressure rise: 1060 bar/s. Maximum corrected explosion pressure: 7.4 bar.
Storage requirements	Store in a dry and cool place.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering controls	Avoid dust generation.Ensure good ventilation and local exhaustion of the working area.
Exposure limits	
Name: Tetramethyl Thiuram Disulfide	OES-TWA 5.0 mg/m ³ OES-STEL 10.0 mg/m ³
Personal protection	
Respiratory	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand	Wear suitable gloves.
Eye	Wear safety goggles.
Skin and body	Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light gray powder	Colour	Light gray
Odour	Slightly amine like	Boiling point	----
Melting point ≥	140.0℃	Flash point	Approx. 150 ° C
Flammability	----	Explosion limits	10g/m ³
Explosive properties	Dust explosion hazard	Auto ignition temperature	> 400 ° C
Oxidizing properties	----	Vapour pressure	----
Density	1.29g/cm ³ (20℃)	Bulk density	----
Solubility in water	Insoluble in water	Solubility in other solvents	acetone,aether, chloroform
pH value	----	Partition coefficient	----
Residues (150um)% Max	0.1(Max)	Relative vapour density	----
Viscosity	----	Assay content % ≥	96
Strength of grain(N)	----		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage and handling conditions (see section 7).
Conditions to avoid	No specific recommendations.
Materials to avoid	Avoid exposure to: oxidizing agents, strong acid.
Hazardous decomposition products	No hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Name	Tetramethyl Thiuram Disulfide
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Acute toxicity

Oral LG50 rat:1080 mg/kg.

Dermal LD50 rabbit:>7940 mg/kg.

Inhalation LC50 rat:4.42 mg/kg.

Irritation

Skin Practically non-irritating.

Eye Practically non-irritating.

12. ECOLOGICAL INFORMATION

Name Tetramethyl Thiuram Disulfide

Ecotoxicity

96h-LC50 (Lepomis macrochirus): 0.13 mg/l.

Fish 96h-LC50 (Oncorhynchus mykiss): 0.13 mg/l.

96h-LC50 (Pimephales promelas): 0.27 mg/l.

Daphnia 48h-EC50 (Daphnia magna): 0.24 mg/l.

Algae 96h-IC50 (Selenastrum capricornutum): 1.0 mg/l.

bacteria 15min-EC50: 1.9 mg/l (P.phosphoreum) (Lit.)

Degradation Biotic Not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Product Avoid discharge into the environment
 Small quantities: According to local regulations.
 Large quantities: Consult YLSCH Chemical for special advice.

Contaminated packaging According to local regulations.
 Waste code number: Please refer to your specific industry

Other information in the European Waste Catalogue.

14. TRANSPORT INFORMATION

Land transport (ADR/ RID)

ADR class	9	RID class	9
ADR/RID packing group	----	Hazard Identification No.	90
Substance Identification No.	3077	UN number	3077

Environmentally hazard us substance, solid, n.o.s.



YLSCH-RBB

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Proper Shipping Name	(Tetramethyl Thiuram Disulfide)		
Sea transport (IMDG-code/ IMO)			
Correct technical name	----	IMDG Class	9
UN Number	3077	Packaging group	
EMS Number	----		
Air transport (ICAO-TI/ IATA-DGR)			
ICAO-TI/IATA-DGR Class	9	UN number	3077
Packing group	Environmentally hazardous substance, solid, n.o.s.		
Correct technical name	(Tetramethyl Thiuram Disulfide)		

15. REGULATORY INFORMATION

Chemical description	Tetramethyl Thiuram Disulfide
Labelling according to EC directives	
EC-number	See section 2 Annex-1 to directive 67/548/EEC
Classification based on	R 43 May cause sensitization by skin contact May cause long-term adverse effects in the aquatic environment
R(isk) 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(afety) phrase(s)	S 61 Avoid release to the environment. Refer to special instruction /Safety data sheets
Other information	To be displayed on the label: "EC label".
Wassergefährdungsklasse (WGK)	3 (VwVwS Anhang 3, Nr. 6612)

16. 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.