

Room 501,2-3 Unit No.8,Zhengzhou Road,Qingdao,China. TEL: <u>86 18661665800</u> Email: <u>Dana@ylsch-rbb.com</u> Website: <u>www.ylsch-rbb.com</u>

### **MATERIAL SAFETY DATA SHEET**

: According to EC-directive 2001/58/EC

Rubber Accelerator TMTD(TT)

HS Code: 29161900.00

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name Tetramethyl Thiuram Disulfide

Qingdao YLSCH Industry&Trade Co.,Ltd

Supplier 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

二硫化四甲基秋兰姆 Chemical name

Tetramethyl Thiuram Disulfide

**CAS NO.** 137-26-8

Chemical description Light gray granule

TSCA NO. none

EINECS NO. none

Other information  $C_6H_{12}N_2S_4$ 

### 3. HAZARDS IDENTIFICATION

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

### 4. FIRST AID MEASURES

May cause alcohol intolerance. Harmful by inhalation and if swallowed.

Symptoms and effects Repeated contact may cause skin sensitization.

First aid

**General** Do not drink alcohol after exposure.



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Inhalation

Move to fresh air. If symptoms persist, seek medical advice.

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.

IngestionRinse mouth, give water to drink.Advice to physicianNo specific recommendations.

### 5. FIRE-FIGHTING MEASURES

Extinguishing media	Waterspray, water mist, foam, dry chemical powder, CO <sub>2</sub>
Unsuitable extinguishing media	Waterjet.
Special exposure hazards	Emits toxic fumes under fire conditions.
Hazardous decomposition/ Combustion products	Carbon monoxide (CO), Sulfur oxides (SO <sub>x</sub> ), nitrous gases (NO <sub>x</sub> ).
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**

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

#### 7. HANDLING AND STORAGE

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

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



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Avoid dust generation. Ensure good ventilation and local **Engineering controls** 

exhaustion of the working area.

**Exposure limits** 

Name: Tetramethyl Thiuram Disulfide OES-TWA 5.0 mg/m3 OES-STEL 10.0 mg/m3

**Personal protection** 

In case of insufficient ventilation, wear suitable respiratory 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 granule	Colour	Light gray
Odour	Slightly amine like	Boiling point	
Melting point≽	140.0℃	Flash point	Approx. 150 ° C
Flammability		Explosion limits	10g/m³
Explosive properties		Auto ignition temperature	> 400 ° C
Oxidizing properties		Vapour pressure	
Density	1.29g/cm3 (20°C)	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 % ≥	95
Strength of grain(N)	0.6-2.5	<b>&gt;</b>	

#### 10. STABILITY AND REACTIVITY

	Stable under recommended storage and handling conditions
Stability	(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

Tetramethyl Thiuram Disulfide Name

**Acute toxicity** 

Oral LG50 rat:1080 mg/kg.



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**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.

Substance Identification No. 3077 UN number 3077

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

Proper Shipping Name (Tetramethyl Thiuram Disulfide )

Sea transport (IMDG-code/ IMO)



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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.