

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: 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.		
Emergency telephone	TEL: +86 18661665800 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	$C_6H_{12}N_2S_4$

#### 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.
Repeated contact may cause skin sensitization.
Do not drink alcohol after exposure.



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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.
Еуе	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, CO2		
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			
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** 

**Personal protection** 

Name: Tetramethyl Thiuram Disulfide

**Exposure limits** 

Respiratory

Skin and body

Hand

Eye

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Avoid dust generation.Ensure good ventilation and local exhaustion of the working area.

OES-TWA 5.0 mg/m3 OES-STEL 10.0 mg/m<sup>3</sup>

In case of insufficient ventilation, wear suitable respiratory equipment. Wear suitable gloves.

Wear safety goggles.

Wear suitable protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light gray	Colour	Light gray
Odour	Slightly amine like	Boiling point	
Melting point≥	<b>140.0</b> °C	Flash point	Approx. 150 °C
Flammability		Explosion limits	10g/m <sup>3</sup>
Explosive properties	Dust explosion hazard	Auto ignition temperature	> 400 ° C
Oxidizing properties		Vapour pressure	
Density	1.29g/cm3(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 % ≽	95
Strength of grain(N)			

#### 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**

Name

Tetramethyl Thiuram Disulfide

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.	90
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-DG	र)			
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.