

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 TETD(DTET) HS Code: 29309090.90

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name Tetraethyl 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

二硫化四乙基秋兰姆

Chemical name Tetraethyl Thiuram Disulfide

**CAS NO.** 97-77-8

Chemical description Light yellow powder

TSCA NO. none

EINECS NO. none

Other information  $C_{10}H_{20}N_2S_4$ 

#### 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

Dust may be irritating to the respiratory tract and cause symptoms of Symptoms and effects bronchitis.

Repeated contact may cause skin sensitization.

First aid

**General** In all cases of doubt, or when symptoms persist, seek medical attention.



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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

Skin 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, CO2

Unsuitable extinguishing media Waterjet. Special exposure hazards None known.

Hazardous decomposition/

Hydrogen cyanide (HCN), sulphur dioxide (SO<sub>2</sub>), nitrous gases combustion products

(NOx).

Protective equipment Wear self contained breathing apparatus.

Do not allow run-off from fire fighting to enter drains or Other information

water courses.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions For personal protection see Section 8. Avoid dust generation.

**Environmental precautions** Do not flush into public water courses.

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 1.

Kst: 150 bar.m/s. Fire and explosion prevention

Maximum rate of pressure rise: 552 bar/s.

Maximum corrected explosion pressure: 6.8. bar.

Storage requirements Store in a dry and cool place.



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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Avoid dust generation. Ensure good ventilation and local

exhaustion of the working area.

**Exposure limits** 

Name: Tetraethyl Thiuram Disulfide WEL (TWA): 4 mg/m³ (respirable dust).

**Personal protection** 

**Respiratory** Avoid breathing dust. In case of insufficient ventilation,

wear suitable respiratory equipment.

HandWear suitable gloves.EyeWear safety goggles.

**Skin and body**Wear suitable protective clothing.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light yellow powder	Colour	Light-yellow
Odour	Slightly amine like	Boiling point	
Melting point≽	<b>64</b> ℃	Flash point	
Flammability		Explosion limits	Min 20 g/m³
Explosive properties		Auto ignition temperature	<b>240-280</b> ℃
Oxidizing properties		Vapour pressure	
Density	1.29g/cm³ (25°C)	Bulk density	
Solubility in water	Insoluble in water	Solubility in other solvents	CS <sub>2</sub> , benzene
pH value		Partition coefficient	
Residues (150um)% Max	0.1(Max)	Relative vapour density	
Viscosity		Assay content % ≽	95
Strength of grain(N)		Zinc content %	

#### 10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions

Stability (see section 7).

Conditions to avoidNo specific recommendations.Materials to avoidOxidizing agents, strong acid.

Hazardous decomposition products

No hazardous decomposition products known.



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#### 11. TOXICOLOGICAL INFORMATION

Name Tetraethyl Thiuram Disulfide

**Acute toxicity** 

**Dermal LD50** rat :1300-3400 mg/kg.

Irritation

**Skin** Practically non-irritating.

Eye Practically non-irritating.

#### 12. ECOLOGICAL INFORMATION

Name Tetraethyl Thiuram Disulfide

**Ecotoxicity** 

fish
96h-LC50 (Poecilia reticulata): 0.19-0.32mg/l.
96h-LC50 (Poecilia reticulata): 0.32mg/l( Lit.).
48h-EC50 (Daphnia magna): 0.12 mg/l (Lit.).

algae 96h-IC50 (Chlorella pyrenoidosa): 1.8 mg/l. (Lit.).

bacteria 15min EC 50 (Photobacterium phosphoreum): 1.21 mg/l (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 (Tetraethyl Thiuram Disulfide )

Sea transport (IMDG-code/ IMO)

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Correct technical name

---- IMDG Class

UN Number -----

**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 (Tetraethyl Thiuram Disulfide)

#### 15. REGULATORY INFORMATION

Symbol(s) (EU classification)

Chemical description Tetraethyl Thiuram Disulfide

Labelling according to EC directives

**EC-number** See section 3

Classification based on Annex-1 to directive 67/548/EEC

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Harmful (Xn) Dangerous for the environment(N)

R43 May cause sensitization by skin contact

R22 Harmful if swallowed

R48/22 Harmful: danger of serious damage to health by prolonged

exposure if swallowed

R(isk) phrase(s) R 50/53 Very toxic to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

S 24 Avoid contact with skin

S 37 Wear suitable gloves

S 60 This material and its container must be disposed of

S(afety) phrase(s) as hazardous waste

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)



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### **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.