

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
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	二硫化四乙基秋兰姆 Tetraethyl Thiuram Disulfide
CAS NO.	97-77-8
Chemical description	Light yellow granule
TSCA NO.	none
EINECS NO.	none
Other information	C ₁₀ H ₂₀ N ₂ S 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

Symptoms and effects	Dust may be irritating to the respiratory tract and cause symptoms of bronchitis. Repeated contact may cause skin sensitization.
First aid	
General	In all cases of doubt, or when symptoms persist, seek medical attention.

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	None known.
Hazardous decomposition/combustion products	Hydrogen cyanide (HCN), sulphur dioxide (SO ₂), 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 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.
Fire and explosion prevention	Kst: 150 bar.m/s. Maximum rate of pressure rise: 552 bar/s. Maximum corrected explosion pressure: 6.8. 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: Tetraethyl Thiuram Disulfide	WEL (TWA): 4 mg/m ³ (respirable dust).
Personal protection	
Respiratory	Avoid breathing dust. 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 yellow granule	Colour	Light-yellow
Odour	Slightly amine like	Boiling point	----
Melting point ≥	64℃	Flash point	----
Flammability	----	Explosion limits	Min 20 g/m ³
Explosive properties		Auto ignition temperature	240-280℃
Oxidizing properties	----	Vapour pressure	----
Density	1.29g/cm ³ (25℃)	Bulk density	----
Solubility in water	Insoluble in water	Solubility in other solvents	CS ₂ , benzene
pH value	----	Partition coefficient	----
Residues (150um)% Max	----	Relative vapour density	----
Viscosity	----	Assay content % ≥	95
Strength of grain(N)	0.6-2.5	Zinc content %	----

10. STABILITY AND REACTIVITY

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

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.).
daphnia	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.	90
Substance Identification No.	3077	UN number	3077
Proper Shipping Name	Environmentally hazard us substance, solid, n.o.s. (Tetraethyl Thiuram Disulfide)		
Sea transport (IMDG-code/ IMO)			

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

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	
Symbol(s) (EU classification)		
R(isk) phrase(s)	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	
S(afety) 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 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)	



YLSCH-RBB

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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.

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