

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 TMTM(TS) HS Code:29309090.90

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name Tetramethyl Thiuram Monosulfide

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

一硫化四甲基秋兰姆

Chemical name Tetramethyl Thiuram Monosulfide

CAS NO. 97-74-5

Chemical description Yellow powder

TSCA NO. none

EINECS NO. none

Other information C₆H₁₂N₂S₃

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/

Carbon monoxide(CO), sulfur oxides (SOx), 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 Avoid discharge into the environment.

Collect as much as possible in a clean container for

(preferable) reuse or disposal. Methods for cleaning up

7. HANDLING AND STORAGE

Handling Avoid contact with skin. Avoid dust generation.

Dust generated during handling.

Storage can form explosive mixtures in air.

Storage requirements Store in a dry and cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



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Engineering controls Avoid dust generation. Ensure good ventilation and local

exhaustion of the working area.

Exposure limits

Name: Tetramethyl Thiuram Monosulfide No exposure limit has been established.

Personal protection

Respiratory In this country no exposure limit has been established

Hand Wear suitable gloves. **Eye** Wear safety goggles.

Skin and bodyWear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow powder	Colour	Yellow
Odour		Boiling point	
Melting point≥	104 ℃	Flash point	>150℃
Flammability		Explosion limits	
Explosive properties		Auto ignition temperature	>200℃
Oxidizing properties		Vapour pressure	
Density	1.37-1.40g/cm³ (25°C)	Bulk density	
Solubility in water	Insoluble in water	Solubility in other solvents	Toluene, chloroform,CS ₂ ,benzene
pH value		Partition coefficient	
Residues (150um)% Max	0.1(Max)	Relative vapour density	
Viscosity		Assay content % ≥	96
Strength of grain(N)		Zinc content %	
Soluble Zinc content ≤			

10. STABILITY AND REACTIVITY

	Stable under recommended storage and handling conditions	
Stability	(see section 7).	
Conditions to avoid	Heating > 100 °C: May catch fire.	
Materials to avoid	Oxidizing agents. Strong acid. Nitrosating agents may form	
	carcinogenic N-nitrosamines.	
Hazardous decomposition products	Thermal decomposition products: carbon monoxide (CO),	
•	nitrous gases (NOx), Sulfur oxides (SOx).	



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Name Tetramethyl Thiuram Monosulfide

Acute toxicity

Dermal LD50

Oral LD50 rat: 730-1390mg/kg

Irritation

Skin Slightly irritating to skin but not sufficient for classification.

rabbit: >2000 mg/kg

Eye Slightly irritating to eyes but not sufficient for classification.

12. ECOLOGICAL INFORMATION

Name Tetramethyl Thiuram Monosulfide

Ecotoxicity

96h-LC50 (Oncorhynchus mykiss): 2.3mg/l.

Fish 96h-LC50 (Lepomis macrochirus): 2.6 mg/l.

Daphnia 48h-EC50 (Daphnia magna): 1.6 mg/l.

Degradation BioticNot 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 Monosulfide)



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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 (Tetramethyl Thiuram Monosulfide)

15. REGULATORY INFORMATION

Chemical description Tetramethyl Thiuram Monosulfide

Labelling according to EC directives

EC-number See section 2

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

R43 May cause sensitization by skin contact

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) 2 (VwVwS Anhang 3)

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.