

MATERIAL SAFETY DATA SHEET

: According to EC-directive 2001/58/EC

Rubber Accelerator TiBTD

HS Code: 29309090.90

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name	Tetraisobutylthiuram 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	二硫化四异丁基秋兰姆 Tetraisobutylthiuram disulfide.
CAS NO.	3064-73-1
Chemical description	Light white powder
TSCA NO.	none
EINECS NO.	none
Other information	C ₁₈ H ₃₆ N ₂ S ₄

3. HAZARDS IDENTIFICATION

Emergency Overview	May cause slight eye and skin irritation.
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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	
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	Avoid discharge into the environment. 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. Store in a dry and cool place.
Storage requirements	Combustible materials should be stored from extreme heat and away from strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Exposure limits

Name:Tetraisobutylthiuram disulfide.

Personal protection

TWA: 15mg/m³ total dust.

TLV/PEL

5mg/m³ respirable dust (OSHA)

TWA: 10 mg/m³ total dust.

3 mg/m³ respirable dust (ACGIH)

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 white powder	Colour	Light-white
Odour	----	Boiling point	----
Melting point ≥	65°C	Flash point	177°C
Flammability	----	Explosion limits	----
Explosive properties		Auto ignition temperature	----
Oxidizing properties	----	Vapour pressure	----
Density	----	Bulk density	----
Solubility in water	Insoluble in water	Solubility in other solvents	In most organic solvents
pH value	----	Partition coefficient	----
Residues (150um)% Max	0.50(Max)	Relative vapour density	----
Viscosity	----	Assay content % ≥	95
Strength of grain(N)	----	Zinc content %	----

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage and handling conditions (see section 7).
Materials to avoid	No specific recommendations.
Hazardous decomposition products	Thermal decomposition products: carbon monoxide (CO), nitrous gases (NO _x), Sulfur oxides (SO _x).

11. TOXICOLOGICAL INFORMATION

Name	Tetraisobutylthiuram disulfide.
Acute toxicity	
Oral LD50	Not available.
Dermal LD50	Not available.
Irritation	
Skin	Slightly irritating to skin but not sufficient for classification.
Eye	Slightly irritating to eyes but not sufficient for classification.

12. ECOLOGICAL INFORMATION

Name	Tetraisobutylthiuram disulfide.
BOD and COD	Not available
	Possibly hazardous short-term degradation products are not likely.
Products of biodegradation	However, long Term degradation products may arise.

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. (Tetraisobutylthiuram 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

(Tetraisobutylthiuram disulfide.)

15. REGULATORY INFORMATION**Chemical description**

Tetraisobutylthiuram disulfide.

Labelling according to EC directives**EC-number**

See section 2

Classification based on

Annex-1 to directive 67/548/EEC

R(isk) phrase(s)

R43 May cause sensitization by skin contact

May cause long-term adverse effects in the aquatic environment.

S(afety) 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 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)**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.