

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 TiBTD HS Code: 29309090.90

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name Tetraisobutylthiuram 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

二硫化四异丁基秋兰姆

Chemical name Tetraisobutylthiuram disulfide.

**CAS NO.** 3064-73-1

Chemical description Light white powder

TSCA NO. none

EINECS NO. none

Other information  $C_{18}H_{36}N_2S_4$ 

## 3. HAZARDS IDENTIFICATION

Emergency Overview May cause slight eye and skin irritation.

## 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.

IngestionRinse mouth, give water to drink.Advice to physicianNo specific recommendations.

#### 5. FIRE-FIGHTING MEASURES

Extinguishing media	Waterspray, water mist, foam, dry chemical powder, CO <sub>2</sub>		
Unsuitable extinguishing media	Waterjet.		
Special exposure hazards	Emits toxic fumes under fire conditions.		
Hazardous decomposition/ combustion products	Carbon monoxide(CO), sulfur oxides (SOx), nitrous gases		
	(NOx).		
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



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**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.

HandWear suitable gloves.EyeWear 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℃	Flash point	177℃
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	0.1(Max)	Relative vapour density	
Viscosity		Assay content % ≥	96
Strength of grain(N)		Zinc content %	

#### 10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions

Stability (see section 7).

Materials to avoid No specific recommendations.

**Hazardous decomposition products**Thermal decomposition products: carbon monoxide (CO),

nitrous gases (NOx), Sulfur oxides (SOx).



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## 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

Environmentally hazard us substance, solid, n.o.s.



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Proper Shipping Name (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

R43 May cause sensitization by skin contact

**R(isk)** phrase(s) 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)

#### **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.