

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 MBT(M) HS Code: 29342000.90

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name 2-Mercaptobenzothiazole

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

2-硫醇基苯并噻唑

2-Mercaptobenzothiazole

CAS NO. 149-30-4

Chemical description Light yellow granule

TSCA NO. none

EINECS NO. none

Other information C₇H₅NS₂

3. HAZARDS IDENTIFICATION

Chemical name

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.

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 ₂
Unsuitable extinguishing media	Waterjet.
Special exposure hazards	Emits toxic fumes under fire conditions.
Hazardous decomposition/ Combustion products	Carbon monoxide (CO), Sulfur oxides (SO _x), 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

	For personal protection see Section 8. Avoid dust	
Personal precautions	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. The usual precautions for handling chemicals should be observed.
	Dust/air mixtures may ignite violently upon exposure to
	sparks or sources of ignition.
Fire and explosion prevention	Kst: 185 bar.m/s
	Maximum rate of pressure rise: 1060 bar/s.
	Maximum corrected explosion pressure: 7.7 bar.
Storage requirements	Store in a dry and cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



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

Exposure limits

Name: 2-Mercaptobenzothiazole OES-TWA 5.0 mg/m3

Personal protection

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

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 bitter	Boiling point	
Melting point≽	170.0℃	Flash point	252 ℃
Flammability		Explosion limits	21g/m³
Explosive properties		Auto ignition temperature	650 ℃
Oxidizing properties		Vapour pressure	
Density	1.42-1.52g/cm3(25℃)	Bulk density	
Solubility in water	Insoluble in water	Solubility in other solvents	Soluble in Acetone, CS ₂
pH value		Partition coefficient	Active component:2.42.
Residues (150um)% Max	0.1(Max)	Relative vapour density	
Viscosity		Assay content % ≽	95
Strength of grain(N)	0.6-2.5	Oil 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 Strong oxidizing agents.

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

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

11. TOXICOLOGICAL INFORMATION

Name 2-Mercaptobenzothiazole

Acute toxicity



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Oral LG50 rat:3800 mg/kg.

Dermal LD50 rabbit:>7940 mg/kg.

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	2-Mercaptobenzothiazole
Ecotoxicity	
	96h-LC50 (Lepomis macrochirus): 1.5 mg/l.
Fish	96h-LC50 (Oncorhynchus mykiss): 0.75 mg/l.
	96h-LC50 (Pimephales promelas): 11mg/l.
Daphnia	48h-EC50 (Daphnia magna): 4.1mg/l.
Algae	96h-IC50 (Cell count): 0.25 mg/l.
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

Substance Identification No. 3077 UN number

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

Proper Shipping Name (2-Mercaptobenzothiazole)

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 (2-Mercaptobenzothiazole)

15. REGULATORY INFORMATION

Chemical description 2-Mercaptobenzothiazole

Labelling according to EC directives

EC-number Not revevant

Annex-1 to directive 67/548/EEC

Classification based on R 43 May cause sensitization by skin contact

May cause long-term adverse effects in the aquatic

environment

R(isk) 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(afety) phrase(s) 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, Nr. 2947)

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.