

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)-Solvent

HS Code: 29342000.90

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name	2-Mercaptobenzothiazole
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	2-硫醇基苯并噻唑
	2-Mercaptobenzothiazole
CAS NO.	149-30-4
Chemical description	Light yellow powder
TSCA NO.	none
EINECS NO.	none
Other information	C ₇ H ₅ NS ₂

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.
First aid	Repeated contact may cause skin sensitization.
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	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.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Avoid dust generation.Ensure good ventilation and local exhaustion of the working area.
Exposure limits	
Name: 2-Mercaptobenzothiazole	OES-TWA 5.0 mg/m3
Personal protection	
Respiratory	Avoid breathing dust. In case of insufficient ventilation,wear suitable respiratory equipment.
Hand	Wear suitable gloves.
Еуе	Wear safety goggles.
Skin and body	Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light-yellow powder	Colour	Light-yellow
Odour	Slightly bitter	Boiling point	
Melting point≥	167.0 ℃	Flash point	252 ℃
Flammability		Explosion limits	21g/m ³
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 % ≥	96
Strength of grain(N)		Oil content%	1.0-2.0

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.
Hazardous decomposition products	Thermal decomposition products: carbon monoxide (CO),
	nitrous gases (NOx), Sulfur oxides (SOx).

11. TOXICOLOGICAL INFORMATION

Name

Acute toxicity

Oral LG50 Dermal LD50 2-Mercaptobenzothiazole

rat:3800 mg/kg. rabbit:>7940 mg/kg.



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Irritation

Skin

Eye

Slightly irritating to skin but not sufficient for classification. 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	UN number	3077
	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-DGF	2)		
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.