

MATERIAL SAFETY DATA SHEET

: According to EC-directive 2001/58/EC

Rubber Antioxidant MBZ

HS Code: 29342000.90

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name	Zinc salt of 2-mercaptobenzimidazole 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 Antioxidant

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Zinc salt of 2-mercaptobenzimidazole
CAS NO.	3030-80-6
Chemical description	White powder
TSCA NO.	none
EINECS NO.	none
Other information	C ₁₄ H ₁₀ N ₄ S ₂ Zn

3. HAZARDS IDENTIFICATION

Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

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. Remove all contaminated clothing immediately. Wash off with plenty of soap and water.
Skin	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

Personal precautions	For personal protection see Section 8. Avoid dust generation.
Environmental precautions	Avoid discharge into the environment.
Methods for cleaning up	Collect as much as possible in a clean container for (preferable) reuse or disposal.

6. ACCIDENTAL RELEASE MEASURES

Extinguishing media	Waterspray,foam, dry chemical powder, CO ₂
Unsuitable extinguishing media	Waterjet
Special exposure hazards	Harmful solid. Irritant.
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.

7. HANDLING AND STORAGE

Handling	Do not breathe dust. Do not get in eyes, on skin,on clothing. Avoid prolonged or repeated exposure.
Storage requirements	Store in a dry and cool place. Keep tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Avoid dust generation.Ensure good ventilation and local exhaustion of the working area.
Exposure limits	
Name: Zinc salt of 2-mercaptobenzimidazole	
Personal protection	
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	White powder	Colour	White
Odour	Flavor bitter	Boiling point	----
Melting point ≥	240℃	Flash point	----
Flammability	Solid:substance:not (in)flammable.	Explosion limits	----
Explosive properties	Dust:dust-explosion hazard	Decomposition temperature	300℃
Oxidizing properties	not applicable	Vapour pressure	----
Density	1.63-1.64g/cm3	Bulk density	----
Solubility in water	----	Solubility in other solvents	Acetone, Ethanol
pH value	----	Oil Content%	1.0-2.0
Residues (150um)% Max	0.5	Heating Loss % Max	0.5
Viscosity	----	Assay content % ≥	95
Insoluble in methanol%	----	Zinc content %	15.0-20.0

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Name	Zinc salt of 2-mercaptobenzimidazole
Acute toxicity	
Oral LG50	rat: 300mg/kg. Mouse:750mg/kg.
Dermal LD50	
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	Zinc salt of 2-mercaptobenzimidazole
Ecotoxicity	
Fish	
Daphnia	
Algae	
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	(Zinc salt of 2-mercaptobenzimidazole)		
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	(Zinc salt of 2-mercaptobenzimidazole)		

15. REGULATORY INFORMATION

Chemical description	Zinc salt of 2-mercaptobenzimidazole
Labelling according to EC directives	
EC-number	See section 2
Classification based on	Annex-1 to directive 67/548/EEC
R(isk) phrase(s)	R 20/21/22 36/37/38 Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin. S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S(afety) phrase(s)	S 36 Wear suitable protective clothing.
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.
