
MATERIAL SAFETY DATA SHEET

: According to EC-directive 2001/58/EC

Rubber Antioxidant MB

HS Code: 29332900.90

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name	2-Mercaptotoluimidazole
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 Antioxidant

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	2-Mercaptotoluimidazole
CAS NO.	583-39-1
Chemical description	White powder
TSCA NO.	none
EINECS NO.	none
Other information	C ₇ H ₆ N ₂ S

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.
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,call a physician.
Advice to physician	No specific recommendations.

5. FIRE-FIGHTING 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),nitrous gases (NO _x),Sulfur oxides (SO _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

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	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: 2-Mercaptotoluimidazole	
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 ≥	290°C	Flash point	----
Flammability	Solid:substance:not (in)flammable.	Explosion limits	----
Explosive properties	Dust:dust-explosion hazard	Autoignition temperature	----
Oxidizing properties	not applicable	Ashes % max	0.40
Density	1.42-1.43	Loss on drying(%) ≤	----
Solubility in water	----	Solubility in other solvents	Ethanol, acetone and Acetic acid
pH value	----	Steam pressure at 100°C	----
Residues (150um)% Max	≤0.1	Heating Loss % Max	0.4
Viscosity	----	Assay content % ≥	96.0
Strength of grain (N)	----	Zinc content %	----

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage and handling conditions (see section 7).
Conditions to avoid	
Materials to avoid	Strong oxidizing agents,strong bases.
Hazardous decomposition products	Thermal decomposition products: carbon monoxide (CO), nitrous gases (NOx), Sulfur oxides (SOx) .

11. TOXICOLOGICAL INFORMATION

Name	2-Mercaptotoluimidazole
Acute toxicity	
Oral LG50	rat:300 mg/kg. Mouse: 750 mg/kg
Dermal LD50	Rabbit: 500 mg 24H(Mild irritation effect)
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-Mercaptotoluimidazole
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	III	Hazard Identification No.	90
Substance Identification No.	3077	UN number	3077

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

Proper Shipping Name (2-Mercaptotoluimidazole)

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 (2-Mercaptotoluimidazole)

15. REGULATORY INFORMATION

Chemical description	2-Mercaptotoluimidazole
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(afety) phrase(s)	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36 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.
