



SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: **Westco MBI**

Other means of identification:

Product Description: Antioxidant used in the manufacture of rubber goods.
Synonyms: 2-Mercaptobenzimidazole, MB

Recommended use of the chemical and restrictions on use:

Chemical distributor, or other responsible party Name, address, and telephone number:

Distributor Name: Western Reserve Chemical Corporation
Address: 4837 Darrow Road
Stow, OH 44224
USA
General Phone Number: 330 650 2244
General Fax Number: 330 650 2255

Emergency phone number::

Emergency Phone Number: Chemtrec 1 800 424 9300 USA
Website: www.wrchem.com

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Pictograms:



Signal Word: **WARNING!**

GHS Class: Acute toxicity - Oral Category 3
Acute toxicity - Dermal Category 4
Acute toxicity - Inhalation (Dusts/Mists) Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2
Chronic aquatic toxicity Category 3

Hazard Statements: Toxic if swallowed
Harmful in contact with skin
Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
Harmful to aquatic life with long lasting effects

Precautionary Statements: Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash hands and skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of soap and water.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER or doctor/physician if you feel unwell.
Take off contaminated clothing and wash it before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with Local, State, Federal regulations.
Keep container tightly closed and locked up.
If irritation persists, get medical advice/attention.

Hazards not otherwise classified that have been identified during the classification process:

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.
Eye: Causes eye irritation. May cause serious eye damage.
Skin: Harmful in contact with skin. Causes skin irritation.
Inhalation: Harmful if inhaled. May cause severe respiratory system irritation.
Ingestion: Toxic if swallowed.
Potential Environmental Effects: Harmful to aquatic life with long lasting effects.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
		97 %	
2-Mercaptomethylbenzimidazole	583-391	97 %	

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact:	Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact:	Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.
Inhalation:	Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.
Ingestion:	Ingestion Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed:

Other First Aid:	Toxic if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. In all cases of doubt, or when symptoms persist, seek medical attention.
-------------------------	---

Indication of immediate medical attention and special treatment needed:

Note to Physicians:	Treat symptomatically.
----------------------------	------------------------

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media:	Not available.

Specific hazards arising from the chemical:

Hazardous Combustion Byproducts:	In case of fire, the following can be released: Carbon oxides.
Unusual Fire Hazards:	No Information Provided.

Special protective equipment and precautions for fire-fighters:

Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
Fire Fighting Instructions:	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal Precautions:	Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Do not breathe dust/fume/gas/mist/vapors/spray. Use personal protection recommended in Section 8.
------------------------------	--

Environmental precautions:

Environmental Precautions:	.Local authorities should be advised if significant spillages cannot be contained. Prevent entry into waterways, sewers, basements or confined areas.
-----------------------------------	---

Methods and materials for containment and cleaning up:

Methods for containment:	Pick up and transfer to properly labeled containers. Avoid generation of dust.
---------------------------------	--

Notes :	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.
----------------	---

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling:	Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin and eyes. Avoid generation of dust. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Use personal protection recommended in Section 8.
Hygiene Practices:	When using, do not eat, drink or smoke. Follow good industrial hygiene practices when handling this material. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities:

Storage:	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with local regulations.
-----------------	---

Specific end use(s):

Work Practices:	Safety showers and eye wash stations should be available.
------------------------	---

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Appropriate engineering controls:

Engineering Controls:	Avoid dust generation. Ensure adequate ventilation, especially in confined areas.
------------------------------	---

Individual protection measures:

Eye/Face Protection:	Wear safety glasses with side shields (or goggles).
Skin Protection Description:	Suitable protective clothing.
Hand Protection Description:	Protective gloves.
Respiratory Protection:	Vapor respirator. Follow local and national regulations.

PPE Pictograms:



Notes :	Environmental Exposure Controls: Avoid discharge into the environment. According to local regulations, Federal and official regulations.
----------------	---

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:	Solid
Physical State Appearance:	Powder
Color:	White
Odor:	Bitter
Odor Threshold:	Not available.
Boiling Point:	425°C
Melting Point:	285-290°C
Density:	1.42g/cm ³
Solubility:	Not Available
Vapor Density:	Not Available
Vapor Pressure:	0 mm Hg
Evaporation Rate:	Not Available
pH:	5.55 (24 °C)
Viscosity:	Not Available
Flammability:	Not Available
Flash Point:	250°C
Flash Point Method:	Cleveland Closed Cup (C.C.C).
Lower Flammable/Explosive Limit:	No Information Provided.
Upper Flammable/Explosive Limit:	No Information Provided.
Auto Ignition Temperature:	No Information Provided.
Explosive Properties:	Not an explosive

SECTION 10 : STABILITY and REACTIVITY

Reactivity:

Reactivity: The substance is stable under normal storage and handling conditions.

Chemical Stability:

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Possibility of hazardous reactions:

Hazardous Polymerization: No dangerous reactions known.

Conditions To Avoid:

Conditions to Avoid: Incompatible Materials. Heat, flames and sparks.

Incompatible Materials:

Incompatible Materials: Strong oxidizing agents. Strong bases.

Hazardous Decomposition Products:

Special Decomposition Products: Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon oxides (COx). Nitrogen oxides (NOx). Sulphur oxides (SOx).

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Acute Toxicity: Oral LD50:
300 mg/kg (Rat)
218 mg/kg bw(Rat) male
208 mg/kg bw(Rat) female
Dermal LD50
500 mg/kg bw(Rabbit)
Inhalation LC50
14.22252 ppm 4h (Rat)

Eye: Causes serious eye irritation.

Skin: Causes skin irritation.

Inhalation: May cause respiratory irritation.

Sensitization: Not classified

Mutagenicity: No Information Provided.

Reproductive Toxicity: No Information Provided.

Teratogenicity: No Information Provided.

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity: Algae/aquatic plants EC50
0.1702477 mg/L 72h other:Pseudokirchneriella subcapitata
Fish LC50
161 mg/L 48h Oryzias latipes
Crustacea EC50
14.16675 mg/L 48h Daphnia magna

Persistence and degradability:

Biodegradation: Not available.

Bioaccumulative potential:

Bioaccumulation: Not available.

Mobility in soil:

Mobility In Environmental Media: Not available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging: Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name: TOXIC SOLID, ORGANIC, N.O.S.(2-Mercaptobenzimidazole)

DOT UN Number: 2811

DOT Hazard Class: 6.1

DOT Packing Group: III

DOT Pictograms:



IATA Shipping Name: TOXIC SOLID, ORGANIC, N.O.S.(2-Mercaptobenzimidazole)

IATA UN Number: 2811

IATA Hazard Class: 6.1

IATA Packing Group: III

IATA Pictograms:



IMDG Shipping Name : TOXIC SOLID, ORGANIC, N.O.S.(2-Mercaptobenzimidazole)

ADR Shipping Name : Not regulated

RID Shipping Name : Not regulated

ICAO Shipping Name: Not regulated

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

US Federal: No Information Provided.

TSCA Inventory Status: Listed

EINECS Inventory Status: Listed

SARA: No information.

State Regulations: No Information Provided.

Risk Phrases: Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.

Safety Phrase: Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.



SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: 1

HMIS Fire Hazard: 0

HMIS Reactivity: 0

HMIS Personal Protection: J

Health Hazard	1
Fire Hazard	0
Reactivity	0
Personal Protection	J

SDS Creation Date: January 21, 2016

SDS Revision Date: August 16, 2016

Notes :

Important Note: This information relates to the specific product described herein and may not be valid for this material when used in combination with other raw materials. The information provided is without warranty regarding its accuracy or completeness. The information may not be valid under all conditions. The user has the final responsibility for determining the suitability of the product in a given application.

Copyright© 1996-2015 Actio Corporation. All Rights Reserved.