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MATERIAL SAFETY DATA SHEET

MSDS # PMC/RC/019/06

Updated on **02-Jan-2006**
Product Name **ACCINOX MBI**
Revision Number **+REV03**
UN Number **3077**
CAS No. **583-39-1**

Health Hazard :	1
Fire Hazard :	0
Reactivity :	0
Personal Protection :	X

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME : ACCINOX MBI

Address/Phone No : PMC Rubber Chemicals India Private Limited
Works & Registered Office:
103 G T Road West
PO: Rishra 712248, Dist : Hooghly
West Bengal, India
Tel : +91 33 26722515, Fax : +91 33 26721552

2. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT DESCRIPTION 2-mercaptobenzimidazole; benzimidazole-2-thiol

EEC No. 209-502-6

HAZARDOUS INGREDIENT(S)	CAS No	%(w/w)	Symbol	R Phrases
2-Mercaptobenzimidazole	583-39-1	>98	Xn	R20/22,R43, R48,52/53

3. HAZARDS IDENTIFICATION

Eye: Causes eye irritation.
Skin: May cause sensitisation by skin contact.
Ingestion: Harmful if swallowed.
Inhalation: May cause respiratory tract irritation.

In common with many organic compounds in powder form it can produce flammable dust clouds in air.

4. FIRST-AID MEASURES

Inhalation	Remove patient from exposure. Obtain medical attention if ill effects occur.
Skin Contact	Remove contaminated clothing. Wash skin liberally with soap and water. If symptoms (irritation or blistering) occur obtain medical attention. Contaminated clothing should be laundered before re-issue.
Eye Contact	Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain medical attention.
Ingestion	Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Obtain immediate medical attention.

Further Medical Treatment

Symptomatic treatment and supportive therapy as indicated.

5. FIRE-FIGHTING MEASURES

Requires only routine fire precautions

Combustible.

In common with many organic compounds in powder form it can produce flammable dust clouds in air.

Combustion or thermal decomposition will evolve very toxic, irritant and extremely flammable vapours. Combustion products nitrogen oxides, sulphur oxides, carbon monoxide, carbon dioxide

Flash Point :	>250° C
Extinguishing Media :	Water spray, foam, dry powder or CO ₂ . Do not use water jet. (Avoid dust generation.)
Fire Fighting	A self contained breathing apparatus and suitable
Protective Equipment:	protective clothing should be worn in fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Do not allow to enter drains, sewers or watercourses.

Control dust formation. (See 'Fire fighting measures'.)

Collect spillages by mechanical means.

Transfer to a container for disposal or recovery.

Ensure suitable personal protection during removal of spillages.

7. HANDLING AND STORAGE

7.1 HANDLING

Control dust formation. (See ' Fire fighting measures' .)

Avoid contact with skin and eyes.

Avoid inhalation of high concentrations of dusts. Atmospheric concentrations should be minimised and kept as low as reasonably practicable.

7.2 STORAGE

In common with many organic compounds in powder form it can produce flammable dust clouds in air. Take precautionary measures against static discharges. Store in a cool dry place away from sunlight.

Keep away from oxidising agents, acids, alkalis and moisture.

Suitable containers: High density polyethylene (HDPE) laminated paper bags with polythene liner inside.

Storage Temperature : Ambient.

Storage Life : 1 year(s)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear suitable gloves and eye/face protection.

Wear suitable respiratory protective equipment if exposure to high levels of dust are likely.

Occupational Exposure Limits

No occupational exposure limit listed but 2.5 mg/m³ is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Powder, non-staining
Colour	Off-white
Odour	Characteristic
Odour Threshold (ppm)	Not applicable.
Melting Point (Deg C)	290 (minimum)
Flash Point (Deg C)	>250
Flammable Limits	No data.
Auto Ignition Temp (°C)	480
Explosive Properties	In common with many organic compounds in powder form it can produce flammable dust clouds in air.

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Oxidising Properties	No data.
Vapour Pressure (Pascals)	No data.
Solubility (Water)	Insoluble
Solubility (Other)	Soluble in methanol
Partition Coefficient	No data.
Specific Gravity	1.42
Molecular Weight	150.2
Molecular Formula	C7H6N2S

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under NTP
Conditions to Avoid:	Incompatible materials, dust generations.
Incompatible materials:	Oxidising agents, acids and alkalis
Hazardous Polymerisation:	Will not occur
Hazardous Decomposition Product(s):	See ' Fire fighting measures' .

11. TOXICOLOGICAL INFORMATION

Ingestion:	Harmful if swallowed. Acute Oral LD50 (Rat) : 300 mg/kg
Inhalation:	High concentrations of dust may be irritant to the respiratory tract. Combustion or thermal decomposition will evolve very toxic and irritant vapours.
Skin Contact:	May cause sensitisation by skin contact.
Eye Contact:	Dust may cause irritation.
Long Term Exposure	Repeated exposure of animals by inhalation produces adverse effects on the thyroid

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

Not Classified as Dangerous for Transport.

15. REGULATORY INFORMATION

EC Classification HARMFUL

Hazard Symbol Xn



Risk Phrases R20/22 Harmful by inhalation and if swallowed.
R43 May cause sensitisation by skin contact.
R48 Danger of serious damage to health by prolonged exposure
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety Phrases S24 Avoid contact with skin.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36 Wear suitable protective clothing
S60 This material and /its container must be disposed of as hazardous waste.
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

16. OTHER INFORMATION

Use : Synergistic antioxidant / stabiliser for speciality polymers

HMIS rating: Health: 1
Flammability: 0
Reactivity: 0
PPI: X

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Legend	: 0(HMIS)	Minimal hazard
	1(HMIS)	Slight hazard
	2(HMIS)	Moderate hazard
	3(HMIS)	Serious hazard
	4(HMIS)	Severe hazard
	X(HMIS)	Personal protective rating to be supplied by user depending on the use conditions

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