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MATERIAL SAFETY DATA SHEET

MSDS # PMC/RC/004/06

Updated on 02-Jan-2006
Product Name ACCICURE MBTS
Revision Number +REV04
UN Number 3077
CAS No. 120-78-5

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

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

PRODUCT NAME : ACCICURE MBTS

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2. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT DESCRIPTION : Mercaptobenzothiazole disulphide; MBTS

HAZARDOUS INGREDIENT(S)	CAS No.	%(w/w)	Symbol	R&S Phrases
Benzothiazole disulphide	120-78-5	>97	Xi,N	R 31,43, R50/53

Components	CAS No.	Percentage (W/W)
2-Mercaptobenzothiazole	149-30-4	<1.5
White Mineral Oil	8042-47-5	<1.5

3. HAZARDS IDENTIFICATION

Group A dust. The material can form flammable dust clouds in air.
May cause sensitisation by skin contact.
May irritate skin, eyes and respiratory tract
See: **OTHER INFORMATION**

4. FIRST-AID MEASURES

- Inhalation Remove patient from exposure.
Obtain medical attention if ill effects occur.
- Skin Contact Remove contaminated clothing.
Wash skin with plenty of 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. Seek medical advice if irritation persists.

Further Medical Treatment

Symptomatic treatment and supportive therapy as indicated.

5. FIRE-FIGHTING MEASURES

- Combustible but not readily ignited.
Group A dust. The material can form flammable dust clouds in air. Take
precautionary measures against static discharges.

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

- Extinguishing Media Water spray, foam, dry powder or CO₂. Do not use
water jet. (Avoid dust generation.) May evolve toxic
aniline on heating

- Fire Fighting & Protective Equipment : A self contained breathing apparatus and suitable
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

Group A dust. The material can form flammable dust clouds in air. Take precautionary measures against static discharges. Keep away from oxidising agents, acids, alkalis, moisture, heat and direct sunlight.

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 for total dust is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Powder (non-staining)
Colour	Creamy White
Odour	Slight aromatic
pH (Value)	Not applicable.
Boiling Point (Deg C)	260°
Melting Point (Deg C)	165 (minimum)

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Flash Point (Deg C)	271 (open cup)
Flammable Limits	No data.
Auto Ignition	
Temperature (Deg C)	360
Explosive Properties	Group A dust. The material can form flammable dust clouds in air.
Oxidising Properties	No data.
Vapour Pressure (Ps)	<1 at 20 Deg C
Solubility (Water)	Insoluble
Solubility (Other)	Soluble in Chloroform
Partition Coefficient	log P n-octanol/water 4.5
Specific Gravity @ 25°C	1.54
Molecular Weight	332.38
Molecular Formula	C14-H8-N2-S4

10. STABILITY AND REACTIVITY

Chemical Stability : Stable when stored at room temperature in closed, original container. Stable under normal conditions of handling, use and transportation.

Hazardous Polymerisation : Will not occur.

Conditions to Avoid : Keep away from heat, sparks and flame.

Avoid dust generation. Avoid contact with strong oxidising agents, acids and alkalis.

Hazardous Decomposition Product(s): Carbon monoxide, Oxides of Nitrogen & Oxides of Sulphur. Aniline

See ' Fire fighting measures' .

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity LD50 (Rat) >7500 mg/kg

Acute Oral Toxicity LD50 (Rabbit) >7500 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.

See: **OTHER INFORMATION**

Skin Contact May cause sensitisation by skin contact.
May cause an allergic skin reaction.
May cause a rash and itching of the skin.

14. TRANSPORT INFORMATION

Not Classified as Dangerous for Transport.

DOT Classification : Not regulated by DOT
IMDG Classification : Not regulated by IMDG
ICAO Classification : Not regulated by ICAO

Marine Pollutant Not classified as a Marine Pollutant

15. REGULATORY INFORMATION

EC Classification Irritant, Hazard Symbol Xi



Dangerous for the environment, N



Risk Phrases: R50/53 Very toxic to aquatic organisms, may cause Long term adverse effects in the aquatic environment.
R43 May cause sensitisation by skin contact.
R31 Contact with acids liberates toxic gas

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 : Accelerator for rubber vulcanisation

FDA Status 21 CFR Regulated for Use under following sections of 21 CFR (177.2600) Rubber Articles Intended for Repeated Use in Food Contact. (175.105) Components of Adhesives

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

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

Special notes:

- MBTS is reviewed in a Chemical Hazard Information Profile (CHIP) EPA May 1983. Users should consult this document, noting that MBTS is the subject of mutagenic and genetic toxicity testing under NTP sponsorship.
- 2. Listed by the international Contact Dermatitis Group for routine skin patch testing in appropriate circumstances.
- 3. Aniline is evolved on heating to decomposition. This chemical is highly toxic, causing methaemoglobinaemia with cyanosis.

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