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MATERIAL SAFETY DATA SHEET

MSDS # PMC/RC/014/06

Updated on **02-Jan-2006**
Product Name **ACCICURE MS**
Revision Number **+REV02**
UN Number **3077**
CAS No. **97-74-5**

Health Hazard :	2
Fire Hazard :	1
Reactivity :	0
Personal Protection :	X

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

PRODUCT NAME : ACCICURE MS

Address/Phone No : PMC Rubber Chemicals India Private Limited
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2. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT DESCRIPTION : Tetramethyl thiuram monosulphide; TMTMS

HAZARDOUS INGREDIENT(S)	CAS No	Symbol	R&S Phrases
Tetramethylthiuram monosulphide (>99 %)	97-74-5	Xn,N	R22,R43, R50/53

3. HAZARDS IDENTIFICATION

Harmful if swallowed.
May cause sensitisation by skin contact.
Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

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, keep warm and at rest.
Seek medical advice.
- Skin Contact** Remove contaminated clothing. Wash immediately with plenty of soap and water.
If symptoms (irritation or blistering) occur obtain medical attention.
Contaminated clothing should be laundered before re-use.
- Eye Contact** Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes.
Obtain medical attention.
- Ingestion** IF SWALLOWED SEEK IMMEDIATE MEDICAL ASSISTANCE.
Under no circumstances give any form of alcohol
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.

5. FIRE-FIGHTING MEASURES

- Combustible.
In common with many organic compounds in powder form it can produce flammable dust clouds in air.
Protect from sparks (dust explosion risk)
- Combustion or thermal decomposition will evolve very toxic, irritant and extremely flammable vapours. Combustion products sulphur oxides, carbon monoxide, carbon dioxide and carbon disulphide.
- Extinguishing Media** Water spray, foam, dry powder or CO₂. Do not use water jet. (Avoid dust generation.)
- 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.
Use appropriate containment to avoid environmental contamination.
Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

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 levels should be controlled in compliance with the occupational exposure limit.

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.
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. (Store in cool and dry place)
Storage Life : 1 year(s)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Ensure good ventilation and local exhaust in the working area.

Personal protection : Wear suitable gloves (PVC or rubber) and eye/face protection.

Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid / powder
Colour	Yellow
Odour	Slight aromatic
Boiling Point (Deg C)	No data.
Melting Point (Deg C)	105 (approx)
Flash Point (Deg C)	>150°C (Closed Cup)
Flammable Limits	No data.
Auto Ignition	
Temperature (Deg C)	>200°C
Explosive Properties	In common with many organic compounds in powder form it can produce flammable dust clouds in air.
Oxidising Properties	No data.
Vapour Pressure (Ps)	Negligible at room temperature
Density (g/ml)	1.38 at 25 Deg C
Solubility (Water)	Insoluble
Solubility (Other)	Soluble in acetone and chloroform
Partition Coefficient	No data.
Specific Gravity	1.38 @ 25°C
Molecular Weight	208.4
Chemical Formula:	C ₆ H ₁₂ N ₂ S ₃

10. STABILITY AND REACTIVITY

Stable at ambient temperatures.

Incompatible materials oxidising agents, acids, alkalis and nitrosating agents for example. nitrites, nitrates and nitrogen oxides.

Hazardous Decomposition Product(s) See ' Fire fighting measures' .

11. TOXICOLOGICAL INFORMATION

Inhalation Irritating to respiratory system.
Harmful by inhalation.
Combustion or thermal decomposition will evolve very toxic and irritant vapours.
Under certain circumstances, co-exposures with alcohol can

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give rise to alcohol intolerance. Symptoms may include facial flushing and nausea.

Skin Contact May cause an allergic skin reaction. May be absorbed through the skin and produce effects similar to those caused by inhalation and / or ingestion.

Moderate irritant to rabbit skin. Repeated and/or prolonged skin contact may cause irritation.

Dermal Median Lethal Dose >2000 mg/kg (rabbit).

Eye Contact Causes mild eye Irritation.
Moderate irritant to rabbit eyes.

Ingestion Harmful if swallowed.
Acute oral LD50 : 1300 mg/kg (rat).

Long Term Exposure Inadequate information is available to assess the teratogenic hazard.
Studies in animals have shown that repeated doses produce no carcinogenic effects.

12. ECOLOGICAL INFORMATION

Very toxic to aquatic organisms.

Acute Fish Toxicity :

LC50 (rainbow trout) (96 hour) 2.3 mg/l

LC50 (bluegill sunfish) (96 hour) 2.6 mg/l

EC50 (Daphnia magna) (96 hour) 1.6 mg/l

Other information : NA

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

Not Classified as Dangerous for Transport.



IMDG status:

Proper Shipping Name Environmentally hazardous substance, solid, n.o.s.
(tetramethylthiuram monosulphide), UN 3077, 9, III

ADR/RID Class Class 9 : Miscellaneous hazardous material

ICAO/IATA status Not available

15. REGULATORY INFORMATION

EC Classification	Harmful, Hazard symbol	Xn	
	Dangerous for the environment	N	
Risk Phrases	R22 Harmful if swallowed R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment R43 May cause sensitisation by skin contact.		
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

HMIS rating: Health: 2
 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

FDA Status 21 CFR: Regulated for use under section of 21 CFR : (177.2600)
Articles intended for repeated use in Food Contact. 175.105
Components of adhesives.

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