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MATERIAL SAFETY DATA SHEET

MSDS # PMC/RC/007/06

Updated on 02-Jan-2006
Product Name ACCICURE BSB
Revision Number +REV02
UN Number 3077
CAS No. 95-31-8

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

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

PRODUCT NAME : ACCICURE BSB

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2. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT DESCRIPTION : N-Tertiary Butyl Benzthiazyl Sulphenamide

HAZARDOUS INGREDIENT(S)	CAS No.	Symbol	R Phrases
N-Tertiary Butyl Benzthiazyl Sulphenamide	95-31-8	Xi	R43, R53

Components	CAS #	Percentage (W/W)
N-Tertiary Butyl Benzthiazyl Sulphenamide	95-31-8	97-99
2-Mercaptobenzothiazole	149-30-4	0 -1
t-Butylamine	75-64-9	0 - 0.5
Mercaptobenzothiazole	120-78-5	0 -1
Disulphide		

3. HAZARDS IDENTIFICATION

May be Irritating to eyes and skin.
May cause sensitisation by skin contact.

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 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 immediate 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

Combustible. In common with many organic compounds in powder form it can Produce flammable dust clouds in air. Protect from sparks.

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

Thermal decomposition will release tertiary butylamine

Extinguishing Media.	Water spray, foam, dry powder or CO ₂ . 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.

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

Keep away from oxidising agents, acids, alkalis, moisture, heat, chlorinated compounds, direct sunlight and nitrosating agents for eg. nitrites, nitrates and nitrogen oxides. Incompatible with acids

Suitable containers : High density polyethylene (HDPE) laminated paper bags with polyliner inside.
Storage Temperature : Cool (air-conditioned)
Storage Life : 6 month(s)

Do not store near Insoluble Sulphur. Slowly degrades and releases irritating vapours under warm/humid conditions.

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	Off-white to pale green
Odour	Mild amine
Boiling Point (Deg C)	No data.
Melting Point (Deg C)	106°C (approx)
Flash Point (Deg C)	166°C (Open cup)
Flammable Limits	No data.
Auto Ignition	
Temperature (Deg C)	349°C (Dust)
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 (mm Hg)	No data.
Density (g/ml)	1.3
Solubility (Water)	No
Solubility (Other)	Soluble in acetone & Ethanol
Specific Gravity	1.3
Molecular Weight	238.4
Molecular Formula	C11-H14-N2-S2

10. STABILITY AND REACTIVITY

Incompatible materials oxidising agents, alkalis, acids, chlorinated compounds and nitrosating agents for e.g. nitrites, nitrates and nitrogen oxides.

Protect from sparks - dust explosion risk

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

11. TOXICOLOGICAL INFORMATION

Oral	Acute Oral LD50 (rat) : >6310 mg/kg
Dermal	Acute Dermal LD50 (Rabbit) : >7940 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	Irritating to skin. May cause sensitisation by skin contact.

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Eye Contact	Irritating to eyes.
Ingestion	Low oral toxicity.
Carcinogenicity	Negative in standard tests using bacteria and yeast cells
Genotoxicity	Both negative and weak positive results in standard vitro and in vivo tests using mammalian cells
Reproductive/ Developmental Toxicity	No evidence of teratogenicity in animal studies using rats & mice
Long Term Exposure	No information available.

12. ECOLOGICAL INFORMATION

Acute Fish Toxicity	96 hr LC50 Rainbow Trout – 1.6 mg/l 96 hr LC50 Bluegill Sunfish – 1.2 mg/l
Acute Algae Toxicity	96 hr LC50 Algae – 4.0 mg/l
Octanol/Water Coefficient	Log P = 2.56
Chemical Fate Information	Boiconcentration Factor : 310
Rapid degradation via hydrolysis.	
Tests indicate this material will not boiaccumulate or persist in the environment.	

13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, state or national legislation
Disposal of container according to national/local regulations.

14. TRANSPORT INFORMATION

Not Classified as Dangerous for Transport.

DOT Status	:	Not regulated
ICAO/IATA Status	:	Not regulated
IMDG Status	:	Not regulated
Proper shipping name	:	None

15. REGULATORY INFORMATION

EC Classification Irritant, Hazard Symbol Xi



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Risk Phrases: R53 May cause long term adverse effects in the aquatic environment.
Safety Phrases: R43 May cause sensitisation by skin contact.
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 the following sections of 21 CFR 177.2600 Rubber Articles Intended for Repeated Use in Food Contact.

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

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