

# Rychem, LLC

P O Box 2628

Stow, Ohio 44224

844-577-CHEM

Fax: 330-686-5144

## Material Safety Data Sheet

### MBDS

CAS # 95-32-9

#### 1. Product Identifications

Product Name: MBDS

Chemical Name: 4-Morpholinyl-2-benzothiazole disulfide

Formula: C<sub>11</sub>H<sub>12</sub>N<sub>2</sub>O<sub>3</sub>S<sub>3</sub>

#### 2. Physical Description/Properties

Specific Gravity: 1.51

Melting Point, °C min.: 123

PH Value: N/A

Appearance: Light yellow soft granules or powder

Odor: Slight Aromatic

Taste: Slight Bitter

Solubility: Soluble in chloroform and toluene

Insoluble in water and petroleum ether.

Volatiles %: 0.5 max

Ash %: 1.0 max

#### 3. Hazard Information

##### Combustible dust

Keep away from heat, sparks and flame.

Eye irritant-Can cause redness, tearing and swelling.

Skin contact may cause allergic reaction. May cause skin defatting.

Inhalation may cause upper respiratory irritation.

Ingestion is unlikely to cause serious illness or death, but should be considered an ingestion hazard.

#### 4. First Aid Information

Skin: Remove contaminated clothing and wash before reuse. Immediately wash contaminated skin with running water.

Ingestion: Immediately rinse mouth with water. Induce vomiting only at the instruction of a physician. Seek immediate medical attention.

Eyes: Flush with water for 15 minutes. Seek medical attention if irritation persists.

Inhalation: Remove person to fresh air. Get immediate medical attention if breathing is difficult or short.

## **5. Handling and Storage**

Storage: Store in a dry well-ventilated area avoiding direct exposure to sunlight. Avoid storage temperature above 110°F.

## **6. Employee Protection Recommendations**

The employee should wear protective clothes and avoid direct physical contact with the product.

Eye Protection: Wear chemical safety glasses or goggles

Hand Protective Requirements: Wear protective gloves.

Skin Protective Requirements: Wear overalls.

Ventilation: Local exhaust

## **7. Toxicological Information**

Low toxicity

LD50 acute oral for rats: 11,000mg/kg

## **8. Fire and Explosion Data**

Flash point: Not available

Exposure standard limits: Not available

Flammable

Extinguish Media: Spray water, Carbon Dioxide, foam, sand or dry chemical.

## **9. Reactivity**

Chemical stability: Stable when stored in original container protected from heat and moisture.

Hazardous Polymerization: Does not occur.

Materials to avoid: Strong oxidizers and nitrosating agents.

Hazardous products of decomposition: Oxides of carbon, nitrogen and sulfur and morpholine.

## **10. Accidental Release and Disposal**

Spills: Sweep and place in closable container. Avoid generation of dust. Wear appropriate protective clothing and safety devices. Do not use water to remove spilled material.

Disposal: Bury waste and empty containers in licensed landfill in adherence to federal, state and local regulations.

## **11. Transportation Information**

DOT Status: Not regulated

DOT shipping name: None

DOT reportable qty. (lbs): None

ICAO/IATA Status: Not regulated

Proper shipping name: None

UN/NA number: None

IMDG Status: Not regulated

TDG Canada: Not regulated

## 12. Regulatory Information

Worldwide Inventory Status:

TSCA (USA): Listed

Canadian DSL: Listed

Canadian NDSL: N/A

EINECS/ELINCS (Europe): Listed

Japanese Inventory (ENCS): Listed

Korean Chemical Inventory (ECL): Listed

Australian Chemical Inventories (AICS): Listed

New Zealand (NZ): Listed

Philippines (PICCS) Inventory: Listed

China (CLECS): Listed

US Regulatory Rules:

SARA Section 302: None Found

SARA 311/312 Hazard Identification Categories: Immediate (acute) health hazard.

SARA 313 Chemical: N/A

Other Regulations:

California Proposition 65: None

New Jersey Right-to-Know List: N/A

Pennsylvania Right-to-Know List: N/A

Florida Right-to-Know: N/A

Minnesota Right-to-Know: N/A

MA Right-to-Know Law: N/A

Canadian Regulations:

WHMIS Hazard Class: D2B TOXIC MATERIALS/Materials Causing Other Toxic Effects

NPRI: N/A

## 13. Other Information

OSHA: Hazardous by definition of hazard communication 29 CFR 1910.1200

HMIS Classification:            Health 2            Flammability 1            Reactivity 0

Important Note: 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.

03/2014