BEMOL Molybdenum Disulfide Powder

MSDS Number: bem-moly

Revision Date: 12/8/2014

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name:	BEMOL Molybdenum Disulfide Powder
Revision Date:	12/8/2014
Version:	1.1
MSDS Number:	bem-moly
Common Name:	Molybdenum Disulfide
CAS Number:	1317-33-5
Chemical Family:	Inorganic Salt
Chemical Formula:	MoS2
Synonyms:	moly powder, molybdenum disulphide, moly sulfide, MIL/AMS-M-7866 (technical grade);

Supplier:

Rose Mill Company
100 Brook Street
West Hartford, CT 06110

860-232-9990 (Phone)
860-232-9995 (Fax)

www.RoseMill.com
info@RoseMill.com

2 HAZARDS IDENTIFICATION

Inhalation:	Possible irritant
Skin Contact:	May cause irritation.
Eye Contact:	May cause irritation.

GHS Signal Word:
NONE

GHS Classifications:
None, None, None

GHS Phrases:
H000 - None

GHS Precautionary Statements:
P302+350 - IF ON SKIN: Gently wash with soap and water.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

CAS Number: 1317-33-5
RTECS Number: QA4697000
Percentage: >99%

4 FIRST AID MEASURES

Inhalation: Remove from exposure area to fresh air immdediately. Note:If breathing has stopped, perform artificial respiration. Keep Person warm and at rest. Get Medical attention.

Skin Contact: Remove contaminated clothing immediately. Wash affected area with soap or mild detergent and large amounts of water until no evidence of powder remains. (approx. 15-20 mins). Get medical attention if aggravation persists.

Eye Contact: Flush with large amounts of water or saline solution, occasionally lifting upper and lower lids, until no evidence of powder remains (approx 15-20mins). Get medical attention if aggravation persists.

Ingestion: If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention if needed.

5 FIRE FIGHTING MEASURES

Firefighting Protective Equipment: Full firefighting turnout gear (bunker gear). Any supplied-air respirator with full face piece and operated in a pressure-demand or other positive pressure mode in combination with a separate escape supply. Any self contained breathing apparatus with a full face piece. Extinguishing media: Extinguishing using agent suitable for type of surrounding fire.
Firefighting: No acute hazard. Move container from fire area if possible. Avoid breathing in vapors or dusts;keep up wind.

6 ACCIDENTAL RELEASE MEASURES

Occupational Spill: For large spills, sweep up with a minimum of dusting and place into suitable clean, dry containers for reclamation or later disposal. Residue should be cleaned up using a high-efficiency particulate filter vacuum.

7 HANDLING AND STORAGE

Storage Requirements: Observe all federal, state and local regulations when storing or disposing of this substance. Store away from incompatible substances.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equip: Exhaust ventilation; NIOSH approved respirator; Splash goggles;

Molybdenum, insoluble compounds (AS Mo): 10mg/m3, (i) ACGIH TWA 3 mg/m3 (r) ACGIH TWA

Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide and eye wash fountain within the immediate work area for emergency use.
Protetcive clothing not required. Avoid repeated or prolonged contact with this substance.
Protective gloves recommended but not required.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Odorless, Dark Gray to Black Powder.
Vapor Pressure: approx 0 @ 20C
Molecular weight: 160.06

Molecular Formula: MoS2
Solubility: Water Solubility: Insoluble Solvent Solubility
Freezing/Melting Pt.: Melting Point >599 F(>315 C) may oxidize

10 STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Prevent dispersion of dust in air.
Materials to Avoid: Hydrogen peroxide= vigorous or violent reaction
Oxidizers (Strong): Forms explosive mixture.
Hazardous Decomposition: Thermal Decomposition may release toxic and/or hazardous gases.
Hazardous Polymerization: Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

11 TOXICOLOGICAL INFORMATION

Toxicity Data:

Eye Effects: No specific data available. Some insoluble molybdenum compounds are irritating to the eyes.
Skin Effects: Acute exposure:dermatitis has not been reported in exposed workers.
Accute Inhalation Effects: No specific data available. Insoluble moblybdenum compounds are characterized by low toxiicity
Chronic Effects: Not Known.
Carcinogenicity: None
Mutagenicity: Not Known.
Teratogenicity: Not Known.

12 ECOLOGICAL INFORMATION

Acute Aquatic Toxicity: Levels up to 750 mg/l powdered MoS2 resulted in 0 mortality to raindbow trout

13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

14 TRANSPORT INFORMATION

No classification currently assigned.

15 REGULATORY INFORMATION

TSCA Inventory Status: Y
TSCA 12 (b) export notification: not listed
Cercla Section 103 (40 CFR 302.4):N
Sara Section 302 (40 CFR 355.30):N
Sara Section 304 (40 CFR 355.40):N
Sara Section 313 (40 CFR 372.65) N
OSHA Process Safety (29 CFR 1910.119):N
Sara Hazard Catagories, Sarah Section 311/312 (40 CFR 370.21):
Acute Hazard:N
Chronic Hazard: N
Fire Hazard: N
Reactivity Hazard:N
Sudden Releas Hazard : N

State Regulations :
California proposition 65 :N

16 OTHER INFORMATION

Disclaimer:
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