



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Bismuth Molybdenum Oxide**

PRODUCT NUMBER: 1246

CAS NUMBER: 13565-96-3

SYNONYMS: Bismuth molybdate,

MANUFACTURER:

Prochem, Inc.
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IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Warning

Hazard Statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary Phrases

P260	Do not breathe dust/fume/gas/mist/vapor/spray.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352	IF ON SKIN: Wash with plenty of water.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

HMS CLASSIFICATION:

Health: 2 Flammability: 0 Reactivity: 0

NFPA RATING:

Health: 2 Fire: 0 Reactivity Hazard: 0

EYE CONTACT: Causes eye irritation.

SKIN CONTACT: Causes skin irritation.

INHALATION: Irritating to the mucous membranes and respiratory tract.

INGESTION: May cause irritation of the digestive tract.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $\text{Bi}_2\text{Mo}_3\text{O}_{12}$

Molecular Weight: 897.77

CHEMICAL NAME	CAS#	%
Bismuth Molybdenum Oxide	13565-96-3	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistants in keeping their eyelids open. Consult a physician.

SKIN EXPOSURE: Was affected area with soap and water. Remove contaminated clothes if necessary. Seek medical assistance if irritation or redness persists.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases, seek immediate medical assistance.

INGESTION: Do not induce vomiting. Seek medical assistance immediately.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Product is not flammable

AUTO IGNITION TEMPERATURE: None

EXPLOSION LIMITS: None

EXTINGUISHING MEDIUM: Use fire fighting measures that suit the surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Bismuth oxide and molybdenum oxide

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Always wear appropriate protective equipment. Ensure adequate ventilation. Keep unprotected persons away.

ENVIRONMENTAL PRECAUTIONS: Do not let enter drains or allow to be released into the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Sweep up and place in a well-marked suitable container for proper disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear suitable personal protective equipment and respiratory equipment. Ensure adequate ventilation. Avoid skin contact and inhalation. Prevent formation of dust. Keep container tightly closed. Avoid contact with skin and eyes.

CONDITIONS FOR SAFE STORAGE: Store in a cool, dry, and well-ventilated area. Store in a tightly sealed container.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemical substance in the laboratory.

SKIN PROTECTION: Chemical-resistant gloves.

VENTILATION: If possible, handle the material in an efficient fume hood.

RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Off-white solid

ODOR: None

MOLECULAR WEIGHT: 897.77

MELTING POINT: No data available

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES (Cont.)

BOILING POINT: No data available
SPECIFIC GRAVITY: 9.32 gm/ml
VAPOR PRESSURE: Not applicable
SOLUBILITY: Insoluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Air and moisture stable
HAZARDOUS POLYMERIZATION: No hazardous polymerization
CONDITIONS TO AVOID: None
INCOMPATIBILITY: None
DECOMPOSITION PRODUCTS: Bismuth oxide and molybdenum oxide

SECTION 11 TOXICOLOGICAL DATA

CARCINOGENIC EFFECTS: No data
MUTAGENIC EFFECTS: Not data
TETRATOGENIC EFFECTS: No data
CHRONIC TOXICITY: Bismuth and bismuth compounds are often poorly absorbed. Should absorption occur, however, exposure may cause loss of appetite, headache, skin, rash, exodermatits, kidney injury, and jaundice. Repeated or prolonged exposure may cause a bismuth line or black spots on the gums, foul breath, and salivation. Acute molybdenum poisoning may cause severe gastrointestinal irritation, diarrhea, coma, and death from cardiac failure.

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

No information available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

Non-hazardous

SECTION 15 REGULATORY INFORMATION

TSCA: No data
SARA (TITLE 313): Not listed
CALIFORNIA PROP. 65: Not listed

SECTION 16 OTHER INFORMATION

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SDS DEPT.