



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Bismuth (III) Bromide**

PRODUCT NO: 1239

CAS NO: 7787-58-8

SYNONYMS: Bismuth Tribromide

### MANUFACTURER:

Prochem, Inc.  
826 Roosevelt Road  
Rockford, IL 61109

PHONE: 815-398-1788  
FAX: 815-398-1810  
TOLL FREE: 800-795-8788

IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Danger**

### Hazard Statements

H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

### Precautionary Phrases

P232	Protect from moisture.
P233	Keep container tightly closed
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P280	Wear protective gloves/protective clothing/eye protection/face protection
P285	In case of inadequate ventilation wear respiratory protection.
P362	Take off contaminated clothing and wash before reuse.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303 + P361 + P353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P310	IMMEDIATELY call a POISON CENTER or doctor/physician

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

### HMIS CLASSIFICATION:

Health: 2 Flammability: 0 Reactivity: 0

### NFPA RATING:

Health: 2 Fire: 0 Reactivity Hazard: 0

**POTENTIAL HEALTH EFFECTS:** Inhalation, Ingestion, Skin absorption

**EYE CONTACT:** May cause redness, chemical burns, itching, watering and burning.

**SKIN CONTACT:** May cause redness, chemical burns, itching and rashes that resemble acne and furunculosis.

**INHALATION:** May cause sneezing, coughing, difficulty breathing, depression, dizziness, headache, foul breath, metallic taste and a dry throat.

**INGESTION:** May cause abdominal pain, discomfort, albumin or other protein substance in the urine and diarrhea.

**CHRONIC HEALTH EFFECTS:** Prolonged exposure to bismuth compounds can cause metal line on gums, foul breath, and mild kidney damage.

**ACUTE HEALTH EFFECTS:** May be irritating and corrosive to skin, eyes, and respiratory tract. In large doses bismuth may be toxic, causing gingivitis, ulcers, diarrhea, malaise, and dermatitis.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: BiBr<sub>3</sub>

Molecular Weight: NA

CHEMICAL NAME	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Bismuth Bromide	7787-58-8	100	No data	No data

## 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 assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

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

**INGESTION:** Seek competent medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Not applicable

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Not available

**EXTINGUISHING MEDIUM:** Not applicable. Use suitable extinguishing medium for surrounding materials and type of fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** If this product is 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:** If involved in a fire this material may emit toxic bromide and hydrobromic acid fumes.

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** When strongly heated, bismuth bromide may emit highly toxic fumes of bromide.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Evacuate unprotected persons. Ensure adequate ventilation. Use adequate protection when handling to avoid inhalation and contact with material.

**ENVIRONMENTAL PRECAUTIONS:** Do not allow product to reach ground water.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Isolate spillage. Absorb spill with inert materials, then place in applicable chemical waste container. Label container. Retain all contaminated solage for removal and treatment.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Open and handle container in controlled environment. Do not breathe vapor. Do not get in eyes, on skin, clothing or shoes.

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

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

**SKIN PROTECTION:** Chemical-resistant.

**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:** Yellow, crystalline, deliquescent powder

**MELTING POINT:** 218°

**BOILING POINT:** 453° C

**SPECIFIC GRAVITY (WATER=1):** Not applicable

**VAPOR PRESSURE:** Not applicable

**SOLUBILITY IN WATER:** Decomposes

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Contact with moisture

**INCOMPATIBILITY:** Water, acids, oxidizing agents, sodium, and potassium

**DECOMPOSITION PRODUCTS:** Fumes of bromide

## SECTION 11 TOXICOLOGICAL DATA

**RTECS DATA:** No specific information available on this product.

**CARCINOGENIC EFFECTS:** No data

**MUTAGENIC EFFECTS:** No data

**TETRATOGENIC EFFECTS:** No data

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**

UN1759

Corrosive solid, n.o.s., Bismuth bromide

CLASS 8

PG III

DOT and IATA Regulated

## **SECTION 15 REGULATORY INFORMATION**

**TSCA:** Listed in the TSCA inventory

**SARA (TITLE 313):** Title compound not listed

## **SECTION 16 OTHER INFORMATION**

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