



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Potassium bromide**  
PRODUCT NO: 2887-5  
CAS NO: 7758-02-3  
SYNONYMS: Potassium monobromide

### MANUFACTURER:

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## SECTION 2 HAZARDS IDENTIFICATION

### 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.

### Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapor/spray.
P280	Wear protective gloves/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

### HMIS CLASSIFICATION:

Health: 2      Chronic: \*      Flammability: 0      Reactivity: 0

### NFPA RATING:

Health: 2      Fire: 0      Reactivity Hazard: 0

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

**EYE CONTACT:** May be a mild irritant to they eyes.

**SKIN CONTACT:** May cause slight irritation of the skin.

**INHALATION:** Dust may cause irritation to the respiratory tract; symptoms may include coughing and shortness of breath.

**INGESTION:** May cause nausea, vomiting and abdominal pain and produce central nervous system effects.

**ACUTE HEALTH EFFECTS:** Symptoms of bromide ingestion may include skin rash, blurred vision, drowsiness, irritability, dizziness, mania, hallucinations, and coma.

**CHRONIC HEALTH EFFECTS:** Repeated or prolonged exposure to bromides by any route may cause skin rashes (bromaderma) and central nervous system depression, including ataxia, psychoses, memory loss, irritability, and headache.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: KBr

Molecular Weight: 119.01

CHEMICAL NAME	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Potassium bromide	7758-02-3	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 in breathing, coughing, wheezing, or pain. In such cases, seek immediate medical assistance.

**INGESTION:** Seek 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:** Product is not flammable

**AUTO IGNITION TEMPERATURE:** Not applicable

**EXPLOSION LIMITS:** Not applicable

**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:** Hydrogen bromide gas and Potassium oxides

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear approved personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation.

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

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Sweep up and place in suitable container for proper disposal.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Avoid contact with skin and eyes. Avoid formation of dust. Ensure adequate ventilation.

**CONDITIONS FOR SAFE STORAGE:** Store material in a tightly sealed container away from moisture.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

**EYE PROTECTION:** Always wear approved safety glasses with side shields, safety goggles, or face shield when handling a chemicals 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:** White solid

**MELTING POINT:** 734°C

**BOILING POINT:** 1435°C

**MOLECULAR WEIGHT:** 119.01

**ODOR:** Odorless

**SPECIFIC GRAVITY:** 2.75 gm/ml

**VAPOR PRESSURE:** No data

**SOLUBILITY IN WATER:** Soluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Hygroscopic

**HAZARDOUS POLYMERIZATION:** No hazardous polymerization

**CONDITIONS TO AVOID:** Contact with moisture

**INCOMPATIBILITY:** Oxidizing agents

**DECOMPOSITION PRODUCTS:** Hydrogen bromide gas and Potassium oxides

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** Oral (rat); LD50: 3070 mg/kg. Oral (mouse); LD50: 3120 mg/kg. Intraperitoneal (mouse); Ld50: 1030 mg/kg. Intraperitoneal (guinea pig); LD50: 980 mg/kg. Rat Ascites tumor; Cytogenetic analysis: 200 mg/kg.

**CARCINOGENIC EFFECTS:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

**MUTAGENIC EFFECTS:** No data

**TETRATOGENIC EFFECTS:** No data

**RTECS:** TS7650000

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

## SECTION 12 ECOLOGICAL DATA

Toxicity to fish: LC50 – Pimephales promelas (fathead minnow) - >30 mg/l – 96 h

## SECTION 13 DISPOSAL CONSIDERATIONS

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

## SECTION 14 TRANSPORTATION DATA

Non-hazardous material

## **SECTION 15 REGULATORY INFORMATION**

**TSCA:** Listed in the TSCA Inventory

**SARA 302 COMPONENTS:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA (TITLE 313):** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 HAZARDS:** Acute Health Hazard, Chronic Health Hazard

**MASSACHUSETTS RIGHT TO KNOW COMPONENTS:** No components are subject to the Massachusetts Right to Know Act.

**PENNSYLVANIA RIGHT TO KNOW COMPONENTS:** Potassium bromide

**NEW JERSEY RIGHT TO KNOW COMPONENTS:** Potassium bromide

**CALIFORNIA PROP. 65 COMPONENTS:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## **SECTION 16 OTHER INFORMATION**

**DISCLAIMER:** The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

**DATE PREPARED:** 05/14

**SDS DEPT.**