BIOSPECTRA

Safety Data Sheet
Potassium Bromide

Warning:

Section 1 - Chemical Product and Company Identification

1.1 Product Identifiers

Product Name: Potassium Bromide
Catalog Number(s):
CAS#: 7758-02-3
EC#: 231-830-3
RTECS: TS7650000
REACH Number: No registration number is available, the substance or uses of this substance are exempt from registration, annual tonnage registration is not required or it is envisaged for a registration deadline at a later date.

1.2 Recommended Use of the Chemical and Restrictions of Use

Chemical manufacturing

1.3 Supplier Details

BioSpectra, Inc.
100 Majestic Way
Bangor, PA 18013
610-599-3400

1.4 Emergency Numbers

US & Canada: 1-800-424-9300
Outside the US & Canada: +1 703-527-3887

Section 2 - Hazards Identification

2.1 Classification of the Substance or Mixture

GHS Classification in accordance with 29 CFR 1910
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

2.2 GHS Label Element Including Precautionary Statements

Pictogram

Signal word: Warning
Hazard statement(s)
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life.
Precautionary statement(s)
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in well-ventilated area.
P273 Avoid release to the environment.
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.
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.
P321 Specific treatment (see supplemental first aid instructions on this label).
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not Classified or not Covered by the GHS

No information available

Section 3 - Composition, Information on Ingredients

3.1 Substances

Formula: KBr
Molecular weight: 119.00 g/mol
CAS#: 7758-02-3
EC#: 231-830-3

Hazardous Components

Component	Classification	Concentration
Potassium bromide	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; Aquatic Acute 3; Aquatic Chronic 3; H315, H319, H335, H412	-

Section 4 - First Aid Measures

4.1 Description of Necessary First Aid Measures

General Advice: Consult a physician. Show this safety data sheet to the treating physician.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Consult a physician.

Skin: Immediately wash skin with soap and water and rince with plenty water for at least 15 minutes. Remove contaminated clothing and shoes. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Inhalation: Immediately remove from exposure area to fresh air. If not breathing, give artificial respiration. Consult a physician.

4.2 Most Important Symptoms/Effects, Acute and Delayed

Refer to Section 2.2 for Precautionary Statements if applicable

4.3 Indication of Immediate Medical Attention and Special Treatment

No information available

Section 5 - Firefighting Measures

5.1 Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Specific Hazards Associated with this Chemical

Hydrogen bromide gas and potassium oxides

5.3 Special Equipment/Precautions for Firefighters

Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) and full protective gear to prevent contact with thermal decomposition products. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

5.4 Other Information

No information available

Section 6 - Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe locations. Avoid breathing dust.

6.2 Environmental Precautions

Prevent further leakage or spillage if it is safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and Materials for Containment and Cleaning Up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Other Information

See Section 13 for disposal considerations.

Section 7 - Handling and Storage

7.1 Precautions for Safe Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for Storage Including any Incompatibilities

Store in a cool, dry, well-ventilated place. Keep container tightly closed. Hygoscopic

7.3 Other Information

No information available

Section 8 - Exposure Controls, Personal Protection

8.1 Control Parameters

Chemical does not contain any substances with occupational exposure limits

8.2 Engineering Controls

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

8.3 Personal Protective Measures

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate gloves to prevent skin exposure. Wear impervious gloves: Nitrile rubber with layer thickness 0.11mm.

Clothing: Wear appropriate impervious protective clothing to minimize contact with skin.

Respirators: Follow the OSHA respirator regulations found in 29CFR

1910.134 or European Standard EN 149. Where protection from nuisance levels of dust are desired use type N95 (US) or type P1 (EN143) dust masks.

Section 9 - Physical and Chemical Properties

9.1 Chemical Property Information

Physical State: Solid	**Melting Point:** 734ºC (1,353ºF)
Appearance: Not Available	**Boiling Point:** 1,435 ºC (2,615 ºF)
Odor: Not available	**Specific Gravity/Density:** Unknown
pH: 5.0 - 6	**Solubility:** 119 g/l at 20ºC (68ºF)
Vapor Density: Not available	**Molecular Weight:** 119.00 g/mol
Viscosity: Not available	**Molecular Formula:** KBr
Density: 2.750 g/cm^3	**Decomposition Temperature:** N/A
Vapor Pressure: < 0.01 hPa (<0.01 mmHg) at 20ºC (68ºF) 1 hPa (1mmHg) at 795ºC (1,463ºF)	

Section 10 - Stability and Reactivity

10.1 Chemical Stability

This product is stable under normal conditions and use.

10.2 Conditions to Avoid

Exposure to moisture.

10.3 Incompatibilities with Other Materials

Strong oxidizing agents, strong acids, heavy metals salts, Aluminum, Potassium.

10.4 Hazardous Decomposition Products

No information available.

Section 11 - Toxicological Information

11.1 Toxicological Effects

LD50/LC50: Oral, rat: LD50 = 3,070mg/kg
Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Olfaction: Other changes.
Behavioral:Somnolence (general depressed activity). Behavioral:Ataxia.
Dermal: No data available.
Inhalation: No data available.
Carcinogenicity: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
Potential Health Effects: Serious Eye Damage/ Irritation: No Data Available.
Skin Corrosion/Irritation: No Data Available.
Respiratory or Skin Sensitization: May cause respiratory irritation.
Epidemiology: No information available.
Teratogenicity: No data available.
Reproductive Effects: No data available.
Neurotoxicity: No data available.
Mutagenicity: Laboratory experiments have shown mutagenic effects.
Other Studies: None
RTECS: TS7650000
To the best of our knowledge the associated physical, chemical and toxicological properties of this chemical have not undergone thorough investigation, all known information is contained in this SDS.
Liver - Irregularities - Based on Human Evidence

Section 12 - Ecological Information

12.1 Ecotoxicity

Harmful to aquatic life.
LC50- Phimephales promelas (fathead minnow)= >30 mg/l – 96 h

12.2 Persistance and Degradability

No information available

12.3 Bioaccumulative Potential

No information available

12.4 Mobility in Soil

No information available

12.5 Result of PBT and vPvB assessment

PBT/vPvB assessment not available, chemical safety assessment not required/conducted

12.6 Other Adverse Effects

Environmental hazard cannot be completely ruled out in the event of unprofessional handling or disposal.
Harmful to aquatic life.

Section 13 - Disposal Considerations

13.1 Disposal Methods

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	US DOT	IATA	IMDG
Shipping Name:	Not Considered Hazardous for Shipping	Not Considered Hazardous for Shipping	Not Considered Hazardous for Shipping
Hazard Class:			
UN Number:			
Packing Group:			

Section 15 - Regulatory Information

OSHA Hazards: Target Organ Effect, Irritant, Mutagen
SARA: Section 302 (RQ): No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
Section 311/312: Acute Health Hazard, Chronic Health Hazard
Section 313 Components: This material does not contain any chemicals components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.
Other Classifications:
Massachusetts Right To Know Components:
No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know Components
Potassium bromide
CAS# 7758-02-3
New Jersey Right To Know Components
Potassium bromide
CAS#7758-02-3
California Prop. 65 Components:
This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16 - Additional Information

16.1 Hazard Ratings

HMIS Classification	**NFPA Rating**
Health hazard: 2	Health hazard: 2
Chronic Health Hazard: *	Fire: 0
Flammability: 0	Reactivity Hazard: 1
Physical hazards: 1	

The information conveyed in this Safety Data Sheet is only a representation of what BioSpectra has found to be accurate based on the current information that is available in regards to this compound. BioSpectra makes no warranty, expressed or implied, with respect to such information, and therefore assumes no liability resulting from product usage. It is strongly recommended that users of this product perform their own investigations to determine the accuracy and suitability of the information for their specific purposes. In no way will BioSpectra assume liability for any claims, losses, damages to any third party, any lost profits or any special, indirect, incidental, consequential or exemplary damages that may arise, even if BioSpectra has been advised of the possibility of such damages.