



SECTION 1 - Chemical Product and Company Identification

1.1 Product Identifiers

Product Name : Potassium Bromide
CAS # : 7758-02-3
EC# : 231-830-3
RTECS# : TS7650000

1.2 Recommended Use of the Chemical and Restrictions of Use

Chemical manufacturing

1.3 Supplier Details

Supplier : BioSpectra Inc.
100 Majestic Way
Bangor, PA 18013
T: 610.599.3400
ra@biospectra.us

1.4 Emergency Numbers

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

SECTION 2 – Hazard Identification

2.1 Classification of the Substance or Mixture

GHS Classification in accordance with 29 CFR 1910 and Regulation (EC) No 1272/2008 (EU-GHS/CLP)

Classified as a Hazardous Substance per GHS and EC1272/2008

2.2 GHS Label Element Including Precautionary Statements

Hazard Pictogram(s):



Warning Word : Warning
Hazard Statements : H315 Causes Skin Irritation
: H319 Causes Serious Eye Irritation
: H335 May Cause Respiratory Irritation

Precautionary Statements

- : P261: Avoid breathing dust/fume/gas/mist/vapours/spray
- : P264: Wash thoroughly after handling
- : P271: Use only outdoors or in a well-ventilated area
- : 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

- : P332 + P313: If skin irritation occurs: Get medical 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 according to applicable federal/state/local regulations.

2.3 Hazards not Classified or not Covered by the GHS

Not Applicable

SECTION 3 - Composition, Information on Ingredients

3.1 Substances

Component	Classification	Concentration
Potassium Bromide	Causes Serious Eye Irritation (Category 2A)	≤100%

Synonyms	: Bromide Salt of Potassium, Hydrobromic Acid Potassium Salt
Formula	: KBr
Molecular Weight	: 119.0 g/mol.

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 rinse skin with soap and 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 if feeling unwell.
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

Substance is not flammable, use media most appropriate to extinguish surrounding fire.

5.2 Specific Hazards Associated with this Chemical

Hydrogen Bromide gas, potassium oxides, halogenated compounds.

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, dust, or gas. Ensure adequate ventilation. Evacuate personnel to safe locations.

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 tightly closed container. Store between 15-30°C (59-86° F), in a dry, well-ventilated area away from incompatible substances. Hygroscopic.

7.3 Other Information

No Information Available.

SECTION 8 - Exposure Controls, Personal Protection

8.1 Control Parameters

This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

Country	Name of Agent	TWA (notation)
IE	Dust, non-specific	4 mg/m ³ (r)
IE	Dust, non-specific	10 (i)

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 Physical and Chemical Property Information

Physical and Chemical Property Information

Appearance	: White Crystalline Solid
Odor	: Odorless
Odor threshold	: Not Applicable
pH	: 5.0-6.0
Melting Point	: 730 °C (1346 °F)
Initial Boiling Point and Boiling Range	: 1435 °C (2615 °F)
Flash Point	: No Data Available
Evaporation Rate	: No Data Available
Flammability	: No Data Available
Upper/lower Flammability or Explosive limits	: No Data Available
Vapor Pressure	: < 0.01 hPa (<0.01 mmHg) at 20°C (68°F) 1 hPa (1mmHg) at 795°C (1,463°F)
Vapor Density	: No Data available
Density	: 2.75 g/cm ³ @ 20 °C
Water Solubility	: 678 g/L @ 25°C
Partition Coefficient: n-octanol/water	: No Data Available
Auto Ignition Temperature	: No Data Available
Decomposition Temperature	: > 132 °C
Viscosity	: No Data Available
Explosive Properties	: No Data Available
Oxidizing Properties	: No Data Available

SECTION 10 - Stability and Reactivity

10.1 Chemical Stability

Stable under normal conditions of use and storage.

10.2 Conditions to Avoid

Exposure to moisture.

10.3 Incompatibilities with Other Materials

Strong oxidizing agents, strong acids, heavy metals salts, Aluminum, Potassium, Halogenated hydrocarbons

10.4 Hazardous Decomposition Products: Occurs Under Fire Conditions

No Data Available

SECTION 11 - Toxicological Information

11.1 Toxicological Effects

LD50/LC50	: LD50: Oral - rat – 3070 mg/kg.
Remarks	: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste)
Behavioral	: Somnolence (general depressed activity). Behavioral: Ataxia
Carcinogenicity	: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
Epidemiology	: No Data Available.
Teratogenicity	: No Data Available.
Reproductive Effects	: No Data Available.
Neurotoxicity	: No Data Available.
Mutagenicity	: Laboratory experiments have shown mutagenic effects.
Specific target organ toxicity -single exposure	: Inhalation -May cause respiratory irritation.
Other Studies	: Not Applicable.

11.2 Additional Information

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 Persistence and Degradability

No Data Available

12.3 Bioaccumulative Potential

No Data Available

12.4 Mobility in Soil

No Data 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. Do not discharge to drains, sewage systems, or the environment.

SECTION 14 - Transport Information

Regulations	US DOT	IATA	IMDG	ADR
Shipping Name	Not Dangerous Goods	Not Dangerous Goods	Not Dangerous Goods	Not Dangerous Goods
Hazard Class				
UN Number				
Packing Group				

Section 15 - Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

TSCA : CAS# 7758-02-3 is listed on the TSCA inventory.

SARA:

SARA 302 : Not subject to reporting requirements of SARA Title III, Section 302.

SARA 313 : 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.

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

STATE SPECIFIC:

- 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 State of California to cause cancer, birth defects, or any other reproductive harm.

15.2 Chemical Safety Assessment

No Data Available.

Section 16 - Additional Information

16.1 Hazard Ratings

NFPA Rating	
Health Hazard	2
Fire Hazard	0
Reactivity Hazard	0

HMIS Rating	
Health	2
Fire	0
Reactivity	0
Personal	Not Available

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.