Material Safety Data Sheet
Potassium bromide MSDS

Section 1: Chemical Product and Company Identification

Product Name: Potassium bromide
Catalog Codes: SLP1369, SLP4993
CAS#: 7758-02-3
RTECS: TS7650000
TSCA: TSCA 8(b) inventory: Potassium bromide
CI#: Not applicable.
Synonym: Bromide salt of Potassium; Tripotassium tribromide
Chemical Name: Potassium Bromide
Chemical Formula: KBr

Contact Information:
Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396
US Sales: 1-800-901-7247
International Sales: 1-281-441-4400
Order Online: ScienceLab.com
CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300
International CHEMTREC, call: 1-703-527-3887
For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium bromide</td>
<td>7758-02-3</td>
<td>100</td>
</tr>
</tbody>
</table>

Toxicological Data on Ingredients: Potassium bromide: ORAL (LD50): Acute: 3070 mg/kg [Rat]. 3120 mg/kg [Mouse].

Section 3: Hazards Identification

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to the nervous system. The substance may be toxic to central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.
Skin Contact:
Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

Serious Skin Contact: Not available.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

<table>
<thead>
<tr>
<th>Flammability of the Product:</th>
<th>Non-flammable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto-Ignition Temperature:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flash Points:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flammable Limits:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Products of Combustion:</td>
<td>Not available.</td>
</tr>
<tr>
<td>Fire Hazards in Presence of Various Substances:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Explosion Hazards in Presence of Various Substances:</td>
<td>Non-explosive in presence of open flames and sparks, of shocks, of heat.</td>
</tr>
<tr>
<td>Fire Fighting Media and Instructions:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Special Remarks on Fire Hazards:</td>
<td>Not available.</td>
</tr>
<tr>
<td>Special Remarks on Explosion Hazards:</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Section 6: Accidental Release Measures

Small Spill:
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions:
Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection
Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

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**Section 9: Physical and Chemical Properties**

- **Physical state and appearance:** Solid. (Crystalline solid. Crystals solid.)
- **Odor:** Odorless.
- **Taste:** Saline. Bitter. Pungent. (Strong.)
- **Molecular Weight:** 119 g/mole
- **Color:** White.
- **pH (1% soln/water):** 7 [Neutral.]
- **Boiling Point:** 1435°C (2615°F)
- **Melting Point:** 730°C (1346°F)
- **Critical Temperature:** Not available.
- **Specific Gravity:** 2.75 (Water = 1)
- **Vapor Pressure:** Not applicable.
- **Vapor Density:** Not available.
- **Volatile:** Not available.
- **Odor Threshold:** Not available.
- **Water/Oil Dist. Coeff.:** Not available.
- **Ionicity (in Water):** Not available.
- **Dispersion Properties:** See solubility in water.
- **Solubility:**
  - Easily soluble in cold water, hot water. Slightly soluble in diethyl ether. Insoluble in acetate. Solubility in water: 1 g/1.5 ml
  - Solubility in boiling water: 1 g/1 ml
  - Solubility in alcohol: 1 g/250 ml
  - Solubility in boiling alcohol: 1 g 21 ml

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**Section 10: Stability and Reactivity Data**

- **Stability:** The product is stable.
- **Instability Temperature:** Not available.
- **Conditions of Instability:** Incompatible materials, moisture
- **Incompatibility with various substances:** Reactive with oxidizing agents, acids.
**Corrosivity:** Non-corrosive in presence of glass.

**Special Remarks on Reactivity:**
Hygroscopic; keep container tightly closed. Incompatible with heavy metal salts. Reacts violently with bromine trifluoride

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

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### Section 11: Toxicological Information

**Routes of Entry:** Inhalation. Ingestion.

**Toxicity to Animals:** Acute oral toxicity (LD50): 3070 mg/kg [Rat].

**Chronic Effects on Humans:**
Causes damage to the following organs: the nervous system. May cause damage to the following organs: central nervous system (CNS).

**Other Toxic Effects on Humans:** Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** May affect genetic material (mutagenic)

**Special Remarks on other Toxic Effects on Humans:**
Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: May cause eye irritation. Inhalation: May cause respiratory tract irritation. Ingestion: Causes gastrointestinal tract irritation (gastritis) with vomiting, diarrhea. It may also affect the urinary system/kidneys (anuria, acute nephroisis, uremia, kidney hemolysis, fatty degeneratioin of the kidney, kidney damage), liver (fatty liver degeneration. It may affect the brain/central nervous system (central nervous depression, hallucinations, psychosis, drowsiness, irritability, confusion, mania, ataxia, vertigo, mental deterioration, somnolence), eyes (enlarge pupils with subnormal reaction to light, miosis, diplopia).

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### Section 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The product itself and its products of degradation are not toxic.

**Special Remarks on the Products of Biodegradation:** Not available.

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### Section 13: Disposal Considerations

**Waste Disposal:**
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

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### Section 14: Transport Information

**DOT Classification:** Not a DOT controlled material (United States).

**Identification:** Not applicable.

**Special Provisions for Transport:** Not applicable.
Section 15: Other Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Potassium bromide

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC): This product is not classified according to the EU regulations. S24/25- Avoid contact with skin and eyes. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28- After contact with skin, wash immediately with plenty of water.

HMIS (U.S.A.):
- Health Hazard: 1
- Fire Hazard: 0
- Reactivity: 0
- Personal Protection: E

National Fire Protection Association (U.S.A.):
- Health: 1
- Flammability: 0
- Reactivity: 0
- Specific hazard:

Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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