Material Safety Data Sheet  
Potassium Bromide

ACC# 19280

Section 1 - Chemical Product and Company Identification

MSDS Name: Potassium Bromide  
Catalog Numbers: AC424070030, S80134, S80134-1, NC9557979, P205-3, P205-500, P227-25, XXP205100KG  
Synonyms: Hydrobromic Acid Potassium Salt; Bromide Salt of Potassium.  
Company Identification:  
Fisher Scientific  
1 Reagent Lane  
Fair Lawn, NJ 07410  
For information, call: 201-796-7100  
Emergency Number: 201-796-7100  
For CHEMTREC assistance, call: 800-424-9300  
For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent</th>
<th>EINECS/ELINCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7758-02-3</td>
<td>Potassium bromide</td>
<td>100</td>
<td>231-830-3</td>
</tr>
</tbody>
</table>

Hazard Symbols: None listed.  
Risk Phrases: None listed.

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: colorless to white solid. Caution! May cause eye and skin irritation. May cause respiratory tract irritation. May cause digestive tract irritation with nausea, vomiting, and diarrhea. Hygroscopic (absorbs moisture from the air). Moisture sensitive. May cause central nervous system depression.  
Target Organs: Central nervous system.

Potential Health Effects

Eye: May cause eye irritation.  
Skin: May cause skin irritation.  
Ingestion: May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure. May cause effects similar to those of acute inhalation.  
Inhalation: May cause respiratory tract irritation. May cause effects similar to those described for ingestion.  
Chronic: Chronic ingestion may cause effects similar to those of acute ingestion. Prolonged exposure may cause mental changes such as hallucinations, depression, psychosis, and possibly coma.

Section 4 - First Aid Measures
**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Remove contaminated clothing and shoes.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** Treat symptomatically and supportively.

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**Section 5 - Fire Fighting Measures**

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible.

**Extinguishing Media:** Use extinguishing media most appropriate for the surrounding fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

**Flash Point:** Not applicable.

**Autoignition Temperature:** Not applicable.

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 1; Flammability: 0; Instability: 0

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**Section 6 - Accidental Release Measures**

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation. Do not expose spill to water.

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**Section 7 - Handling and Storage**

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes. Do not ingest or inhale.

**Storage:** Store in a cool, dry place. Store protected from moisture.

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**Section 8 - Exposure Controls, Personal Protection**

**Engineering Controls:** Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium bromide</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
</tbody>
</table>

**OSHA Vacated PELs:** Potassium bromide: No OSHA Vacated PELs are listed for this chemical.

**Personal Protective Equipment**

**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.
**Clothing:** Wear appropriate protective clothing to minimize contact with skin.
**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

### Section 9 - Physical and Chemical Properties

- **Physical State:** Solid
- **Appearance:** colorless to white
- **Odor:** odorless
- **pH:** Neutral in solution.
- **Vapor Pressure:** Not applicable.
- **Vapor Density:** Not applicable.
- **Evaporation Rate:** Not applicable.
- **Viscosity:** Not applicable.
- **Boiling Point:** 1435 deg C
- **Freezing/Melting Point:** 734 deg C
- **Decomposition Temperature:** Not available.
- **Solubility:** Soluble in water.
- **Specific Gravity/Density:** 2.75
- **Molecular Formula:** KBr
- **Molecular Weight:** 119.0023

### Section 10 - Stability and Reactivity

- **Chemical Stability:** Stable under normal temperatures and pressures.
- **Conditions to Avoid:** Incompatible materials, moisture.
- **Incompatibilities with Other Materials:** Strong oxidizing agents; strong acids; heavy metal salts Reacts violently with bromine trifluoride.
- **Hazardous Decomposition Products:** Hydrogen bromide, oxides of potassium.
- **Hazardous Polymerization:** Will not occur.

### Section 11 - Toxicological Information

- **RTECS#:**
- **CAS# 7758-02-3:** TS7650000
- **LD50/LC50:**
  - **CAS# 7758-02-3:**
  - Oral, mouse: LD50 = 3120 mg/kg;
  - Oral, rat: LD50 = 3070 mg/kg;
- **Carcinogenicity:**
  - **CAS# 7758-02-3:** Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
- **Epidemiology:** No information available.
- **Teratogenicity:** No information available.
- **Reproductive Effects:** No information available.
- **Neurotoxicity:** No information available.
- **Mutagenicity:** No information available.
- **Other Studies:** No data available.
Section 12 - Ecological Information

No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.
**RCRA U-Series:** None listed.

Section 14 - Transport Information

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<tr>
<th></th>
<th>US DOT</th>
<th>IATA</th>
<th>RID/ADR</th>
<th>IMO</th>
<th>Canada TDG</th>
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<td><strong>Hazard Class:</strong></td>
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<td><strong>UN Number:</strong></td>
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<tr>
<td><strong>Packing Group:</strong></td>
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Section 15 - Regulatory Information

**US FEDERAL**

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

**Health & Safety Reporting List**
None of the chemicals are on the Health & Safety Reporting List.

**Chemical Test Rules**
None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b**
None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule**
None of the chemicals in this material have a SNUR under TSCA.

**SARA**

**CERCLA Hazardous Substances and corresponding RQs**
None of the chemicals in this material have an RQ.

**SARA Section 302 Extremely Hazardous Substances**
None of the chemicals in this product have a TPQ.

**SARA Codes**
CAS # 7758-02-3: acute, chronic.

**Section 313**
No chemicals are reportable under Section 313.

**Clean Air Act:**
This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

https://fscimage.fishersci.com/msds/19280.htm
Clean Water Act:
None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:
None of the chemicals in this product are considered highly hazardous by OSHA.

STATE
CAS# 7758-02-3 is not present on state lists from CA, PA, MN, MA, FL, or NJ.
California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols:
Not available.
Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)
CAS# 7758-02-3: 1

Canada - DSL/NDSL
CAS# 7758-02-3 is listed on Canada's DSL List.

Canada - WHMIS
This product has a WHMIS classification of D2B.

Canadian Ingredient Disclosure List
CAS# 7758-02-3 is listed on the Canadian Ingredient Disclosure List.

Exposure Limits

Section 16 - Additional Information

MSDS Creation Date: 7/09/1998
Revision #2 Date: 3/18/2003

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, however arising, even if Fisher has been advised of the possibility of such damages.