SAFETY DATA SHEET

1. IDENTIFICATION

Product code: P1230
Product Name: POTASSIUM BROMIDE, GRANULAR, PURIFIED

Other means of identification

Synonyms: Bromide salt of potassium; Tripotassium tribromide
CAS #: 7758-02-3
RTECS #: TS7650000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: In the manufacture of photographic paper and plates. Process engraving. Laboratory reagent.
Uses advised against: No information available

Supplier: Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number: Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category 2</td>
<td>Skin corrosion/irritation</td>
</tr>
<tr>
<td>Category 2A</td>
<td>Serious eye damage/eye irritation</td>
</tr>
<tr>
<td>Category 3</td>
<td>Specific target organ toxicity (single exposure)</td>
</tr>
</tbody>
</table>
Warning

Hazard statements
Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation

Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
May be harmful if swallowed

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wear protective gloves
Wear eye/face protection

Precautionary Statements - Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash it before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Precautionary Statements - Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Bromide</td>
<td>7758-02-3</td>
<td>100</td>
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</table>

4. FIRST AID MEASURES

First aid measures
General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222

Product code: P1230
Product name: POTASSIUM BROMIDE, GRANULAR, PURIFIED
4. FIRST AID MEASURES

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention.

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

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms Causes serious eye irritation. Causes skin irritation. Irritating to respiratory system. May cause central nervous system effects. Ingestion may cause nausea, vomiting, and diarrhea. May cause headache. May affect the liver. It may affect the kidneys.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire, use dry chemical, dry sand or carbon dioxide.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: No information available.

Specific hazards: No information available.

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment: Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up: Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions: Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice: Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors/dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Hygroscopic. Protect from moisture.


8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

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<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
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Canada

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<th>Ontario</th>
<th>Quebec</th>
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Australia and Mexico

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<td></td>
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</tbody>
</table>

Product code: P1230 Product name: POTASSIUM BROMIDE, GRANULAR, PURIFIED
Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. 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.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Safety glasses with side-shields or Goggles

Skin and body protection: Chemical resistant apron. Gloves. Long sleeved clothing.

Respiratory protection: Effective dust mask. Or. Wear respirator with dust filter. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES
### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tr>
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<td>Appearance</td>
<td>Crystalline. Crystals.</td>
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<tr>
<td>Odor</td>
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<td>Molecular/Formula weight</td>
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<tr>
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<td>Decomposition temperature(°C/°F)</td>
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<tr>
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</tr>
<tr>
<td></td>
<td>Solubility in Boiling Alcohol: 1g/21mL</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>119.00</td>
</tr>
<tr>
<td>Formula</td>
<td>KBr</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

#### Reactivity
- Reactive with acids
- Reactive with oxidizing agents
- It is rapidly attacked by bromine trifluoride

#### Chemical stability
- Hygroscopic. Stable at normal conditions.

#### Possibility of Hazardous Reactions
- Hazardous polymerization does not occur

#### Conditions to avoid

#### Incompatible Materials
- Acids. Oxidizing agents.

#### Hazardous decomposition products
- No information available

#### Other Information
- Corrosivity: No information available

**Product code:** P1230  
**Product name:** POTASSIUM BROMIDE, GRANULAR, PURIFIED
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Ingestion. Inhalation.

Acute Toxicity

Component Information

Potassium Bromide - 7758-02-3

LD50/oral/rat = = 3070 mg/kg Oral LD50 Rat
LD50/oral/mouse = 3120 mg/kg Oral LD50 Mouse
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = 980 mg/kg Intraperitoneal LD50 Guinea pig

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = 3070mg/kg

LD50/oral/mouse =
Value - Acute Tox Oral = 3120mg/kg

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat
VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye irritation.

Inhalation Irritating to respiratory system.
Ingestion

May be harmful if swallowed. Ingestion may cause nausea, vomiting, diarrhea. May cause headache. May affect behavior/central nervous system (ataxia, irritability, somnolence). May affect behavior/central nervous system (hallucinations, insomnia). May affect behavior/central nervous system (confusion). May affect behavior/central nervous system (coma). May cause salivation. May affect liver. May cause vision disturbances. May cause blurred vision. May cause mydriasis (dilated pupils).

Aspiration hazard

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity

Prolonged or repeated ingestion may cause skin rashes (bromoderma, acne, pyoderma gangrenosum, erythema multiforme), affect the liver (hepatic enzymes increased), endocrine system (thyroid), metabolism (anorexia), blood (anemia), vision (visual disturbances, permanently decreased vision), and may produce a toxic syndrome called "bromism." "Bromism" may be characterized by behavior/central nervous symptoms such CNS depression, irritability, headache, confusion, slurred speech, memory loss, lethargy, ataxia, tremor, agitation, delusion, disoriented, paranoia, aggressiveness, hallucinations, mania, fatigue, seizure, neuropathy, muscle weakness, drowsiness, stupor, coma. Also, in individuals with chronic bromism, the tongue may have a coated or furred appearance. Hearing impairment, which may be permanent, is an uncommon effect of chronic or acute bromide intoxication. Chronic bromide ingestion can cause Hyperchloremia. Hyperchloremia can occur because chronic Bromide ingestion produces progressive renal reabsorption of bromide ions and decreased chloride reabsorption.

Sensitization:

No information available

Mutagenic Effects:

May affect genetic material

Carcinogenic effects:

Not considered carcinogenic

<table>
<thead>
<tr>
<th>Components</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
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<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
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</tbody>
</table>

Reproductive toxicity

No data is available

Reproductive Effects:

No information available

Developmental Effects: No information available

Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure: Respiratory system.
STOT - repeated exposure: No information available
Target Organs: Central nervous system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product code: P1230

Product name: POTASSIUM BROMIDE, GRANULAR, PURIFIED
12. ECOLOGICAL INFORMATION

Ecotoxicity effects: Aquatic environment.

Potassium Bromide - 7758-02-3

Freshwater Fish Species Data: >30 mg/L LC50 Pimephales promelas 96 h static 1
Water Flea Data: 30 mg/L EC50 Daphnia magna 96 h

Persistence and degradability: No information available
Bioaccumulative potential: No information available
Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Bromide</td>
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<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: None
ERG No: No information available
Marine Pollutant: No data available
DOT RQ (lbs): No information available
Special Provisions: No Information available
Symbol(s): No information available

TDG (Canada)

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Marine Pollutant: No Information available

ADR

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available

Product code: P1230
Product name: POTASSIUM BROMIDE, GRANULAR, PURIFIED
14. TRANSPORT INFORMATION

Packing Group: No information available
Subsidiary Risk: No information available

IMO / IMDG
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Marine Pollutant: No information available

RID
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available

ICAO
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available

IATA
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
ERG Code: No information available
Special Provisions: No information available

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS (1)-108</th>
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U.S. Regulations

Potassium Bromide

FDA - Direct Food Additives 21 CFR 173.315
FDA - 21 CFR - Total Food Additives 173.315 178.1010 178.2010


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)
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<th>Components</th>
<th>Carcinogen</th>
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**CERCLA/SARA**

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<th>Components</th>
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<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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**U.S. TSCA**

<table>
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<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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<tbody>
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**Canada**

**WHMIS hazard class:**
D2A Very toxic materials

**Potassium Bromide**

D2A

**Canada Controlled Products Regulation:**
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

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<th>Components</th>
<th>WHMIS Ingredient Disclosure List -</th>
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**Inventory**

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<tr>
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**EU Classification**

**R-phrase(s)**
R36/37/38 - Irritating to eyes, respiratory system and skin.

**S-phrase(s)**
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37 - Wear suitable gloves.

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<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
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**Product code:** P1230

**Product name:** POTASSIUM BROMIDE, GRANULAR, PURIFIED
The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
Xi - Irritant.

16. OTHER INFORMATION

Preparation Date: 03/25/2015
Revision Date: 5/10/2016
Prepared by: Sonia Owen

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End of Safety Data Sheet