Material Safety Data Sheet
Sodium bromide

Section 1 - Chemical Product and Company Identification

MSDS Name:
  Sodium bromide
Catalog Numbers:
  LC22961
Synonyms:
  Bromide salt of sodium.
Company Identification:
  LabChem Inc
  200 William Pitt Way
  Pittsburgh, PA 15238
Company Phone Number:
  (412) 826-5230
Emergency Phone Number:
  (800) 424-9300
CHEMTREC Phone Number:
  (800) 424-9300

Section 2 – Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name:</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>7647-15-6</td>
<td>Sodium bromide</td>
<td>100</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

Emergency Overview

Appearance: White crystalline powder.
Danger! Causes mild eye irritation. Hygroscopic (absorbs moisture from the air).
Target Organs: Central nervous system.

Potential Health Effects

Eye:
  May cause mild eye irritation.

Skin:
  May cause skin irritation. May be harmful if absorbed through the skin.

Ingestion:
  May cause irritation of the digestive tract. Symptoms may include: headache, excitement, fatigue, nausea, vomiting, stupor, and coma. May be harmful if swallowed.

Inhalation:
  Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. May cause respiratory tract irritation. May be harmful if inhaled.

Chronic:
  Chronic ingestion may cause central nervous system failure.
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Section 4 - First Aid Measures

Eyes:
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.

Ingestion:
Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

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.

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.

Extinguishing Media:
In case of fire, use water, dry chemical, chemical foam, or appropriate foam.

Autoignition Temperature:
Not applicable

Flash Point:
Not applicable

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

Explosion Limits:
Lower: n/a Upper: n/a

Section 6 - Accidental Release Measures

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

Spills/Leaks:
Sweep up or absorb material, and then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions.
Section 7 - Handling and Storage

Handling:
Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:
Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. 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</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium bromide</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
</tbody>
</table>

OSHA Vacated PELs:
Sodium 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 prevent skin exposure.

Respirators:
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical State:</th>
<th>Crystalline powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>White</td>
</tr>
<tr>
<td>Odor:</td>
<td>None reported</td>
</tr>
<tr>
<td>pH:</td>
<td>5.0-8.8 (5% sol.)</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>1390°C @ 760 mmHg</td>
</tr>
<tr>
<td>Freezing/Melting Point:</td>
<td>755°C</td>
</tr>
<tr>
<td>Decomposition Temperature:</td>
<td>800°C</td>
</tr>
<tr>
<td>Solubility in water:</td>
<td>95g/100 ml water (25°C)</td>
</tr>
</tbody>
</table>
Section 10 - Stability and Reactivity

**Chemical Stability:**
Hygroscopic: absorbs moisture or water from the air.

**Conditions to Avoid:**
Incompatible materials, dust generation, heating to decomposition, exposure to moist air or water.

**Incompatibilities with Other Materials:**
Strong acids, bromine trifluoride.

**Hazardous Decomposition Products:**
Hydrogen bromide, sodium oxide, bromine fumes.

**Hazardous Polymerization:**
Has not been reported.

Section 11 - Toxicological Information

**RTECS:**
CAS# 7647-15-6: VZ3150000.

**LD50/LC50:**
CAS# 7647-15-6:
- Oral, mouse: LD50 = 7 gm/kg;
- Oral, rat: LD50 = 3500 mg/kg

**Carcinogenicity:**
CAS# 7647-15-6: Not listed by ACGIH, IARC, NTP, or California Proposition 65.

**Epidemiology:**
No information found.

**Teratogenicity:**
No information found.

**Reproductive:**
Adverse reproductive effects have occurred in experimental animals.

**Mutagenicity:**
No information found.

**Neurotoxicity:**
No information found.

Section 12 - Ecological Information

**Ecotoxicity:**
Fish: Bluegill/Sunfish: >1000 mg/L; 96 h; LC50 Daphnia: Daphnia: >1000 mg/L; 48 h; LC50
Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT
Shipping Name: Not regulated
Hazard Class:
UN Number:
Packing Group:

Section 15 - Regulatory Information

US Federal
TSCA:
CAS# 7647-15-6 is listed on the TSCA Inventory.
SARA Reportable Quantities (RQ):
None of the chemicals in this material have an RQ.
CERCLA/SARA Section 313:
No chemicals are reportable under Section 313.
OSHA - Highly Hazardous:
None of the chemicals in this product are considered highly hazardous by OSHA.

US State
State Right to Know:
CAS# 7647-15-6 is not present on state lists from California, Pennsylvania, Minnesota, Massachusetts, Florida, or New Jersey.
California Regulations:
None.

European/International Regulations
Canadian DSL/NDSL:
CAS# 7647-15-6 is listed on Canada’s DSL List.
Canada Ingredient Disclosure List:
CAS# 7647-15-6 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: November 14, 2007
Revision Date: March 9, 2010
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