

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name	<b>Sodium Bromide</b>
Chemical Formula	BrNa
Molecular Weight	102.89 g/mol
CAS No.	7647-15-6
EC No.	231-599-9
Common Synonyms	Bromide of Sodium
Supplier Address*	ISOFLEX USA PO Box 472615 San Francisco CA 94147 United States
Telephone	+1 415-440-4433
Fax	+1 415-563-4433
Emergency Phone Number (both supplier and manufacturer)	Infotrac/ +1 800-535-5053  *May include subsidiaries or affiliate companies/divisions
Email	<a href="mailto:iusa@isoflex.com">iusa@isoflex.com</a>
Website	<a href="http://www.isoflex.com">www.isoflex.com</a>
Preparation Information	ISOFLEX USA Product Safety +1 415-440-4433

**2. HAZARDS IDENTIFICATION**

**Emergency Overview:**

<b>OSHA Hazards</b>	Target Organ Effect
<b>Target Organs</b>	Central nervous system
<b>GHS Classifications</b>	Acute toxicity, Dermal (Category 5) Acute toxicity, Oral (Category 5) Eye irritation (Category 2B)
<b>GHS Label Elements</b>	
<b>Pictogram</b>	None
<b>Signal Word</b>	Warning
<b>Hazard Statements</b>	<b>H303/H313:</b> May be harmful if swallowed or in contact with skin <b>H320:</b> Causes eye irritation
<b>Precautionary Statements</b>	<b>P305/351/338:</b> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**NFPA Ratings:** (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

**Health Hazard = 0    Flammability = 0    Reactivity = 0**



**HMIS Ratings:** (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

**Health Hazard = 1      Flammability = 0      Physical Hazard = 0**

<b>HEALTH HAZARD</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

#### Potential Health Effects

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.
<b>Ingestion</b>	May be harmful if swallowed.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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### 4. FIRST AID MEASURES

<i>General Advice</i>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
<i>Oral</i>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<i>Inhalation</i>	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<i>Dermal Exposure</i>	Wash off with soap and plenty of water. Consult a physician.
<i>Eye Exposure</i>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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### 5. FIREFIGHTING MEASURES

<i>Conditions of Flammability</i>	Not flammable or combustible
<i>Suitable Extinguishing Media</i>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Firefighting</b>	
<i>Protective Equipment:</i>	Wear self-contained breathing apparatus for firefighting, if necessary.
<i>Hazardous Combustion Products</i>	Hazardous decomposition products formed under fire conditions: hydrogen bromide gas, sodium oxides.

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### 6. ACCIDENTAL RELEASE MEASURES

<i>Personal Precautions</i>	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, gas or dust. Ensure adequate ventilation.
<i>Environmental Precautions</i>	Do not let product enter drains.
<i>Methods for Cleanup</i>	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

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## 7. HANDLING AND STORAGE

<i>Handling</i>	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
<i>Storage</i>	Keep container tightly closed in a dry and well-ventilated place.
<i>Special Requirements</i>	Hygroscopic

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

*Engineering Controls* Safety shower and eye bath. Mechanical exhaust required.

### Personal Protective Equipment

<i>Respiratory protection</i>	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
<i>Hand protection</i>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
<i>Immersion protection</i>	Material: Nitrile rubber Minimum layer thickness: 0.11 mm Breakthrough time: > 480 min
<i>Splash protection</i>	Material: Nitrile rubber Minimum layer thickness: 0.11 mm Breakthrough time: > 30 min
<i>Eye protection</i>	Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
<i>Skin and body protection</i>	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<i>Hygiene measures</i>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Color	Colorless
Form	Crystalline
Odor	Odorless

### Safety Data

pH:	5.4 at 50 g/l at 20 °C (68 °F)
BP/BP Range:	1393 °C (2539 °F) at 1,013 hPa (760 mmHg)
MP/MP Range:	755 °C (1,391 °F)
Vapor Pressure:	1 hPa (1 mmHg) at 806 °C (1483 °F)

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## 10. STABILITY AND REACTIVITY

<i>Chemical Stability</i>	Stable under recommended storage conditions
<i>Possibility of Hazardous Reactions</i>	No data available
<i>Conditions to Avoid</i>	Avoid moisture and heat.
<i>Materials to Avoid</i>	Strong acids, strong oxidizing agents, alkali metals, halogens
<i>Hazardous Decomposition Products</i>	Hazardous decomposition products formed under fire conditions: hydrogen bromide gas, sodium oxides
<i>Other Decomposition Products</i>	No data available

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

<b>Oral LD50</b>	LD50 Oral – Rat – 3500 mg/kg
<b>Inhalation LC50</b>	No data available
<b>Dermal LD50</b>	LD50 Dermal – Rabbit - >2000 mg/kg
<b>Other information on acute toxicity</b>	No data available
<i>Skin Corrosion/Irritation</i>	Skin – Rabbit – No skin irritation
<i>Serious Eye Damage/Irritation</i>	Eyes – Rabbit – Mild eye irritation
<i>Respiratory or Skin Sensitization</i>	No data available
<i>Germ Cell Mutagenicity</i>	No data available

### Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Teratogenicity

No data available

### Specific target organ toxicity

No data available

### Aspiration hazard

No data available

### Potential health effects

<i>Inhalation</i>	May be harmful if inhaled. May cause respiratory tract irritation.
<i>Ingestion</i>	May be harmful if swallowed.
<i>Skin</i>	May be harmful if absorbed through skin. May cause skin irritation.
<i>Eyes</i>	May cause eye irritation.

### Signs and symptoms of exposure

Effects due to ingestion may include sedation.

### Synergistic effects

No data available

### Additional information

RTECS: VZ3150000

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## 12. ECOLOGICAL INFORMATION

<i>Toxicity to Fish</i>	Mortality NOEC - <i>Oryzias latipes</i> - 7,800 mg/l - 96 h LC50 - <i>Poecilia reticulata</i> (guppy) - 160,000 mg/l - 96 h
<i>Toxicity to Daphnia and Other Aquatic Invertebrates</i>	Mortality NOEC - <i>Daphnia magna</i> (Water flea) - 7,800 mg/l - 48 h
<i>Persistence and Degradability</i>	No data available
<i>Bioaccumulative Potential</i>	No data available
<i>Mobility in Soil</i>	No data available
<i>PBT and vPvB Assessment</i>	No data available
<i>Other Adverse Effects</i>	No data available

### 13. DISPOSAL CONSIDERATIONS

<i>Product</i>	Offer surplus and non-recyclable solutions to a licensed disposal company.
<i>Contaminated Packaging</i>	Dispose of as unused product.

### 14. TRANSPORT INFORMATION

<b>DOT (US)</b>	Not dangerous goods
<b>IATA</b>	Not dangerous goods

### 15. REGULATORY INFORMATION

<b>OSHA Hazards</b>	Target Organ Effect
<b>SARA 302 Components</b>	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
<b>SARA 313 Components</b>	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
<b>SARA 311/312 Hazards</b>	Chronic Health Hazard
<b>Massachusetts Right to Know Components</b>	No components are subject to the Massachusetts Right to Know Act.
<b>Pennsylvania Right to Know Components</b>	Sodium Bromide / CAS No. 7647-15-6
<b>New Jersey Right to Know Components</b>	Sodium Bromide / CAS No. 7647-15-6
<b>California Prop. 65 Components</b>	This product does not contain any chemicals known to the State of California to cause birth defects or any other reproductive harm.

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## 16. OTHER INFORMATION

<i>Prepared By</i>	ISOFLEX USA PO Box 472615 San Francisco CA 94147 United States
<i>Issuing Date</i>	December 17, 2015
<i>Revision Date</i>	October 18, 2024
<i>Revision No.</i>	3
<i>Revision Note</i>	Update supplier address

### ISOFLEX USA's Commonly Used Abbreviations and Acronyms\*

ACGIH	American Conference of Governmental Industrial Hygienists
ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
ALARA	As Low As Is Reasonably Achievable
AMU	Atomic Mass Unit
ANSI	American National Standards Institute
BLS	Basic Life Support
CAM	Continuous Air Monitor
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CEN	European Committee for Standardization
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CLP	Classification, Labelling and Packaging (European Union)
CPR	Controlled Products Regulations (Canada)
CWA	Clean Water Act (USA)
DAC	Derived Air Concentration (USA)
DOE	United States Department of Energy (USA)
DOT	United States Department of Transportation (USA)
DSL	Domestic Substances List (Canada)
EC50	Half Maximal Effective Concentration
EINECS	European Inventory of Existing Commercial Chemical Substances
EHS	Environmentally Hazardous Substance
ELINCS	European List of Notified Chemical Substances
EMS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EPA	Environmental Protection Agency (USA)
EPCRA	Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986
GHS	Globally Harmonized System
HMIS	Hazardous Materials Identification System (USA)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Containers
ICAO	International Civil Aviation Organization
IDLH	Immediately Dangerous to Life or Health
IMDG	International Maritime Code for Dangerous Goods
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
LDLO	Lethal Dose Low
LOEC	Lowest-Observed-Effective Concentration
MARPOL	International Convention for the Prevention of Pollution from Ships
MSHA	Mine Safety and Health Administration (USA)
NCRP	National Council on Radiation Protection & Measurements (USA)
NDSL	Non-Domestic Substances List (Canada)
NFPA	National Fire Protection Association (USA)
NIOSH	National Institute for Occupational Safety and Health (USA)
NOEC	No Observed Effect Concentration
N.O.S.	Not Otherwise Specified

NRC	Nuclear Regulatory Commission (USA)
NTP	National Toxicology Program (USA)
OSHA	Occupational Safety and Health Administration (USA)
PBT	Persistent Bioaccumulative and Toxic Chemical
PEL	Permissible Exposure Limit
PIH	Poisonous by Inhalation Hazard
RCRA	Resource Conservation and Recovery Act (USA)
RCT	Radiation Control Technician
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (Europe)
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
RTECS	Registry of Toxic Effects of Chemical Substances
SARA	Superfund Amendments and Reauthorization Act (USA)
TDG	Transportation of Dangerous Goods (Canada)
TIH	Toxic by Inhalation Hazard
TLV	Threshold Limit Value
TPQ	Threshold Planning Quantity
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
UN	United Nations (Number)
VOC	Volatile Organic Compound
vPvB	Very Persistent Very Bioaccumulative Chemical
WGK	Wassergefährdungsklassen (Germany: Water Hazard Classes)
WHMIS	Workplace Hazardous Materials Information System

\*One or more of the above-listed items may not appear in this document.

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