

Lithium Br	omid	<u>e</u>	Pricing >	
Lithium Br	omid	e Solution	Pricing >	
		m Bromide	Pricing >	
Linear Formula		LiBr		
Pubchem CID		82050		
MDL Number		MFCD00011077		
EC No.		231-439-8		
IUPAC Name		lithium bromide		
Beilstein/Reaxys No.		N/A		
SMILES		[Li+].[Br-]		
Inchl Identifier		InChI=1S/BrH.Li/h1H;/q;+1/p-1		
Inchl Key		AMXOYNBUYSYVKV-UHFFFAOYSA-M		
Signal Word	Warning			
Hazard Statements	H315-H317-H319			
Hazard Codes	Xi			
Precautionary Statements	P261-P264-P280-P333+P313-P337+P313-P362+P364			
Risk Codes	22			
Safety Statements	N/A			
RTECS Number	OJ5755000			
Transport Information	NONH for all modes of transport			
WGK Germany	3			
GHS Pictograms	GHS07 Exclamation Point			

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SAFETY DATA SHEET

Date Accessed: 04/29/2024 Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #7550-35-8

Relevant identified uses of the substance:

Scientific research and development

Supplier details: American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351

Emergency telephone number: Domestic, North America +1 800-424-9300 International +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Acute toxicity, Oral (Category 4), H302 Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Skin sensitisation (Category 1), H317 For the full text of the H-Statements mentioned in this Section, see Section 16. GHS Label elements, including precautionary statements Pictogram



Signal word Warning Hazard statement(s) H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. Precautionary statement(s) P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/ eye protection/ face protection. P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. P302 + P352 IF ON SKIN: Wash with plenty of soap

and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse. P501 Dispose of contents/ container to an approved waste disposal plant. Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances Formula : BrLi Molecular weight : 86.85 g/mol CAS-No. : 7550-35-8 EC-No. : 231-439-8

SECTION 4. FIRST AID MEASURES

Description of first aid measures General advice Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area. If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact Wash off with soap and plenty of water. Consult a physician. In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are

described in the labelling (see section 2) and/or in section 11 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special hazards arising from the substance or mixture Hydrogen bromide gas, Lithium oxides Hydrogen bromide gas, Lithium oxides Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary. Further information No data available

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8. Environmental precautions Do not let product enter drains. Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Reference to other sections For disposal see section 13.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2. Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and wellventilated place. Hygroscopic. Keep in a dry place. Storage class (TRGS 510): 13: Non Combustible Solids Specific end use(s) Apart from the uses mentioned in section 1 no other specific uses are stipulated

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters Components with workplace control parameters Contains no substances with occupational exposure limit values. Exposure controls Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Personal protective equipment Eye/face protection Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection 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. **Body Protection** Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection 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). Control of environmental exposure Do not let product enter drains.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties a) Appearance Form: powder Colour: beige b) Odour odourless c) Odour Threshold No data available d) pH 7.0 at 10 g/l at 20 °C (68 °F) e) Melting point/freezing point Melting point/range: 547 °C (1017 °F) f) Initial boiling point and boiling range 1,265 °C 2,309 °F g) Flash point ()No data available h) Evaporation rate No data available i) Flammability (solid, gas) The product is not flammable. - Test N.1: Test method for readily combustible solids j) Upper/lower flammability or explosive limits No data available k) Vapour pressure 1.0 hPa at 748 °C (1378 °F) I) Vapour density No data available m) Relative density 3.460 g/cm3 at 20 °C (68 °F) n) Water solubility 1,490 g/l at 20 °C (68 °F) o) Partition coefficient: n-octanol/water No data available p) Auto-ignition temperature No data available q) Decomposition temperature No data available r) Viscosity No data available s) Explosive properties No data available t) Oxidizing properties No data available Other safety information Bulk density 1.8 kg/m3

SECTION 10. STABILITY AND REACTIVITY

Reactivity No data available Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions No data available Conditions to avoid Avoid moisture. Incompatible materials Strong acids Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Hydrogen bromide gas, Lithium oxides Other decomposition products - No data available Hazardous decomposition products formed under fire conditions. - Hydrogen bromide gas, Lithium oxides In the event of fire: see section 5

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity LD50 Oral - Mouse - 1,840 mg/kg LC50 Inhalation - Rat - male and female - 4 h - > 15.57 mg/l (OECD Test Guideline 403) Inhalation: No data available LD50 Dermal - Rat - male and female - > 2,000 mg/kg (OECD Test Guideline 402) No data available Skin corrosion/irritation Skin - Rabbit Result: Irritating to skin. - 4 h (OECD Test Guideline 404) Serious eye damage/eye irritation Eyes - Rabbit Result: Eye irritation (OECD Test Guideline 405) Respiratory or skin sensitisation Buehler Test - Guinea pig Result: positive (OECD Test Guideline 406) Germ cell mutagenicity 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. 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 on OSHA's list of regulated carcinogens.

Reproductive toxicity No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information **RTECS:** Not available Large doses of lithium ion have caused dizziness and prostration, and can cause kidney damage if sodium intake is limited. Dehydration, weight loss, dermatological effects, and thyroid disturbances have been reported. Central nervous system effects that include slurred speech, blurred vision, sensory loss, ataxia, and convulsions may occur. Diarrhea, vomiting, and neuromuscular effects such as tremor, clonus, and hyperactive reflexes may occur as a result of repeated exposure to lithium ion., Bromide rashes, especially of the face, and resembling acne and furunculosis, often occur when bromide inhalation or administration is prolonged., Acute symptoms of overexposure include:, depression, psychosis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

SECTION 12. ECOLOGICAL INFORMATION

Toxicity Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 438 mg/l - 96 h NOEC - Oncorhynchus mykiss (rainbow trout) - 128 mg/l - 96 h Persistence and degradability The methods for determining biodegradability are not applicable to inorganic substances. **Bioaccumulative potential** No data available Mobility in soil No data available Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted Other adverse effects No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Contaminated packaging Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

DOT (US) Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

SECTION 15. REGULATORY INFORMATION

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components 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. SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act. No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know Components Lithium bromide CAS-No. 7550-35-8 **Revision Date** Lithium bromide CAS-No. 7550-35-8 **Revision Date** New Jersey Right To Know Components Lithium bromide CAS-No.

7550-35-8 Revision Date

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.