

LTS Research Laboratories, Inc. Safety Data Sheet Lithium Bromide

1. Product and Company Identification		
Trade Name:	Lithium Bromide	
Chemical Formula:	LiBr	
Recommended Use:	Scientific research and development	
Manufacturer/Supplier:	LTS Research Laboratories, Inc.	
Street:	37 Ramland Road	
City:	Orangeburg	
State:	New York	
	10962	
Zip Code:		
Country: Tel #:	USA 855-587-2436 / 855-lts-chem	
24 Hours Emorgonou Contract	800 424 0200 (US & Canada)	
24-Hour Emergency Contact:	800-424-9300 (US & Canada)	
	+1-703-527-3887 (International)	
	2. Hazards Identification	
Signal Word:	Warning	
	research	
Hazard Statements:	H302: Harmful if swallowed.	
	H315: Causes skin irritation.	
	H317: May cause an allergic skin reaction.	
	H319: Causes serious eye irritation.	
Precautionary Statements:	P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.	
	P264: Wash skin thoroughly after handling.	
	P270: Do not eat, drink or smoke when using this product.	
	P272: Contaminated work clothing should not be allowed out of the	
	workplace.	
	P280: Wear protective gloves/ eye protection/ face protection.	
	P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor	
	physician if you feel unwell.	
	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.	
	P330: Rinse mouth.	
	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.	
HMIS Health Ratings (0-4):		
-	2	
Health:	2	
HMIS Health Ratings (0-4): Health: Flammability: Physical:	2 0 1	

Salt None 100 wt% 7550-35-8
100 wt%
7550 25 8
1550-55-6
231-439-8
4. First Aid Procedures
Seek medical attention if symptoms persist.
None
None
Remove victim to fresh air. Supply oxygen if breathing is difficult. Keep patient warm. Seek immediate medical attention.
Seek immediate medical attention.
Immediately wash affected area with mild soap and water. Remove any contaminated clothing. Seek immediate medical attention.
Flush eyes with water, blinking often for several minutes. Remove
contact lenses if present and easy to do. Continue rinsing. Seek
immediate medical attention.
5. Firefighting Measures
Non-flammable
L. C Research
No special restrictions – use suitable extinguishing agent for
surrounding material and type of fire. Use full-face, self-contained breathing apparatus with full protective
clothing to prevent contact with skin and eyes. See section 10 for
decomposition products.
6. Accidental Release Measures
Wear appropriate respiratory and protective equipment specified in special protection information. Keep unprotected persons away. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed
container for disposal. Take care not to raise dust. Isolate runoff to prevent environmental pollution.
7. Handling and Storage
Handle under dry protective gas. Avoid contact with the eyes and skin. Wash thoroughly after handling.
Store in a cool dry place in a tightly sealed container. Store under dry inert gas. Store away from water/moisture, acids, oxidizing agents. Thi product is hygroscopic. Protect from humidity and water. Store apart from materials and conditions listed in section 10.
Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with
compressed air. Provide sufficient ventilation to maintain concentration at or below

Permissible Exposure Limits:	N/A	
Threshold Limit Value:	N/A	
Special Equipment:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Respiratory Protection:	Dust Respirator	
Protective Gloves:	Nitrile rubber gloves with minimum thickness of 0.11 mm	
Eye Protection:	Safety glasses or goggles	
Body Protection:	Protective work clothing. Wear close-toed shoes and long	
	sleeves/pants.	
9.	Physical and Chemical Characteristics	
Color	Beige	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	1,490 g/L	
Boiling Point:	1,265°C	
Melting Point:	550°C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	3.464 g/cc	
Molecular weight:	86.85 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents, acids	
Incompatible Conditions:	Water/moisture	
Hazardous Decomposition Products:	Metal oxide fume, hydrogen bromide (HBr), lithium oxide	

11. Toxicological Information

Potential Health Effects:			
Eyes:	Causes serious eye irritation		
Skin:	Causes skin irritation, may cause an allergic skin reaction		
Ingestion:	Harmful if swallowed		
Inhalation: Chronic:	May cause irritation		
Chronic:	N/A		
Signs & Symptoms: Aggravated Medical Conditions:	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		
	N/A		
Median Lethal Dose:	1,800 mg/kg for rat by mouth		
Carcinogen:	 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 NTP. 		
	12. Ecological Information		
Aquatic Toxicity:	Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 438 mg/l - 96 h		
	NOEC - Oncorhynchus mykiss (rainbow trout) – 128		
Dereistant Diagonumulation Torisitar	mg/l - 96 h N/A		
Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative:	N/A N/A		
Notes:	Do not allow material to be released to the environment without proper		
Notes.	governmental permits.		
	Do not allow undiluted product or large quantities to reach ground		
	water, water course or sewage system. Avoid transfer into the environment.		
	13. Disposal Considerations		

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data			
Hazardous:	Not hazardous for transportation.		
Hazard Class:	N/A		
Packing Group:	N/A		
UN Number:	N/A		
Proper Shipping Name:	N/A		
	15. Regulatory Information		
Sec 302 Extremely Hazardous:	No		
Sec 304 Reportable Quantities:	N/A		
Sec 313 Toxic Chemicals:	No		
	16. Other Information		

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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