

SAFETY DATA SHEET

Creation Date 31-Jan-2012

Revision Date 14-Feb-2020

Revision Number 2

1. Identification

Product Name

Lithium bromide, anhydrous

Cat No. :

Synonyms

CAS-No

7550-35-8 Lithium monobromide

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.Details of the supplier of the safety data sheet

40657

<u>Company</u>

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1

Label Elements

Signal Word Warning

Hazard Statements

Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Skin

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

Eyes

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

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component		CAS-No	Weight %	
Lithium bromide (LiBr)		7550-35-8	>95	
	4.	First-aid measures		
Eye Contact	Rinse immec medical atter	liately with plenty of water, also under th tion.	ne eyelids, for at least 15 minutes. Get	
Skin Contact	Wash off imm	nediately with plenty of water for at least	t 15 minutes. Get medical attention.	
Inhalation Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.			ir. If not breathing, give artificial	
Ingestion	Clean mouth	with water. Do NOT induce vomiting. G	et medical attention.	
Most important symptoms and effects	swelling, trou	llergic skin reaction. Symptoms of allerging breathing, tingling of the hands and pain or flushing	gic reaction may include rash, itching, feet, dizziness, lightheadedness, chest	
Notes to Physician	Treat sympto			
5. Fire-fighting measures				

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the
	surrounding environment.

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	Not applicable
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available No information available

Specific Hazards Arising from the Chemical Non-combustible.

Hazardous Combustion Products

Hydrogen halides.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 2		Flammability 0	Instability	Physical hazards N/A		
	~	-		N/A		
		6. Accidental release				
	Personal PrecautionsUse personal protective equipment as required. Ensure adequate ventilation.Environmental PrecautionsShould not be released into the environment.					
Methods for Co Up	Methods for Containment and Clean Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Do not le this chemical enter the environment.					
		7. Handling and s	torage			
Handling Avoid contact with skin and eyes. Do not breathe dust. Do not ingest. If swallowed seek immediate medical assistance. Wash hands before breaks and immediately a handling the product.						
Storage		Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed.				
	8. E	xposure controls / pers				
Exposure Guid	<u>elines</u>	This product does not contain any h limitsestablished by the region spec		upational exposure		
Engineering Mo	easures	Ensure adequate ventilation, espec and safety showers are close to the		e that eyewash stations		
Personal Prote	Personal Protective Equipment					
Eye/face Pr	otection	Wear appropriate protective eyegla OSHA's eye and face protection reg EN166.				
Skin and bo	ody protection	Wear appropriate protective gloves	and clothing to prevent skin	exposure.		

Respiratory Protection	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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
9	. Physical and chemical properties
Physical State	Powder Solid
Appearance	Beige
Odor	Odorless
Odor Threshold	No information available
рН	7
Melting Point/Range	550 °C / 1022 °F
Boiling Point/Range	1265 °C / 2309 °F
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	3.460
Solubility	No information available
Partition coefficient; n-octanol/wate	
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Br Li
Molecular Weight	86.84
	10. Stability and reactivity
Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions. Hygroscopic.

Conditions to Avoid Avoid dust formation. Incompatible products. Exposure to moist air or water.

None under normal processing.

Incompatible Materials Strong oxidizing agents, Strong acids

Hazardous Decomposition Products Hydrogen halides

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions

11. Toxicological information

Acute Toxicity

Product Information Component Information

component information							
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation				
Lithium bromide (LiBr)	LD50 = 1800 mg/kg(Rat)	Not listed	Not listed				
Toxicologically Synergistic	No information available						
Products							
Delayed and immediate effects	Delayed and immediate effects as well as chronic effects from short and long-term exposure						

Irritation		Irritating to eyes and skin				
Sensitization		May cause sensitization by skin contact				
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ed any ingredient	as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Lithium bromide (LiBr)	7550-35-8	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
Reproductive Effects		No information ava	ailable.			
Developmental Effe	cts	No information available.				
Teratogenicity		No information available.				
STOT - single exposure STOT - repeated exposure		None known None known				
Aspiration hazard		No information available				
Symptoms / effects,both acute and delayed		d Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing				
Endocrine Disrupto	r Information	No information available				
Other Adverse Effect	cts	The toxicological properties have not been fully investigated.				

12. Ecological information

Ecotoxicity Do not empty into drains. .

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea		
Lithium bromide (LiBr)	Not listed	LC50: = 438 mg/L, 96h static	Not listed	Not listed		
		(Oncorhynchus mykiss)				
Persistence and Degrad	ability Soluble in w	Soluble in water Persistence is unlikely based on information available.				
Bioaccumulation/ Accur	nulation No informati	on available.				
Mobility	Will likely be	Will likely be mobile in the environment due to its water solubility.				
	13. Di	sposal considera	ations			
hazardous		aste generators must deterr vaste. Chemical waste gen ardous waste regulations to	erators must also consult l	ocal, regional, and		
	14. 7	ransport informa	ation			
DOT	Not regulate	d				

	. Tot i ogalatoa	
TDG	Not regulated	
IATA	Not regulated	
IMDG/IMO	Not regulated	
	15. Regulatory information	

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
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Lithium bromide (LiBr)	7550-35-8	Х	ACTIVE	-

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL	
Lithium bromide (LiBr)	7550-35-8	Х	-	231-439-8	Х	Х	Х	Х	KE-22549	
U.S. Federal Regulations										
SARA 313	Not app	Not applicable								
SARA 311/312 Hazard Categorie	es See sec	See section 2 for more information								
CWA (Clean Water Act)	Not app	Not applicable								
Clean Air Act	Not app	Not applicable								
OSHA - Occupational Safety and Health Administration	Not app	Not applicable								
CERCLA	Not app	Not applicable								
California Proposition 65	This pro	This product does not contain any Proposition 65 chemicals.								
U.S. State Right-to-Know Regulations	Not app	Not applicable								
U.S. Department of Transportat Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	ion N N N									
U.S. Department of Homeland Security	This pro	This product does not contain any DHS chemicals.								
Other International Regulations	5									
Mexico - Grade	No infor	No information available								
16. Other information										

Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com					
Creation Date Revision Date Print Date Revision Summary	31-Jan-2012 14-Feb-2020 14-Feb-2020 SDS authoring systems update, replaces ChemGes SDS No. 7550-35-8.					

Disclaimer

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End of SDS