

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 10/2/2024 Version: 1.0

SECTION 1: Identification 1.1. Identification		
Product form	: Substance	
Substance name	: LITHIUM BROMIDE	
CAS-No.	: 7550-35-8	
Product code Formula	: ARF10055, ARF10056	
1.2. Recommended use and restrictions on use	: BrLi	
Use of the substance/mixture	: Laboratory chemicals	
1.3. Supplier		
Alpha Resources LLC		
3090 Johnson Rd.		
Stevensville, Michigan 49127		
USA		
T (269)465-5559 info@alpharesources.com - www.alpharesources.com		
1.4. Emergency telephone number		
Emergency number	: CHEMTREC Emergency Pho	ne Number: (800) 424-9300
SECTION 2: Hazard(s) identification		
2.1. Classification of the substance or mixture	_	
GHS US classification		
Acute toxicity (oral) Category 4	H302	Harmful if swallowed
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 2A	H319	Causes serious eye irritation
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Full text of H statements : see section 16		
2.2. GHS Label elements, including precaution	nary statements	
GHS US labeling		
Hazard pictograms (GHS US)	:	
	•	
Signal word (GHS US)	: Warning	
Hazard statements (GHS US)	: H302 - Harmful if swallowed	
	H315 - Causes skin irritation H317 - May cause an allergic	altin reaction
	H319 - Causes serious eye irri	
Precautionary statements (GHS US)	: P261 - Avoid breathing dust/f	
recautionary statements (0115 05)	-	and face thoroughly after handling.
	P270 - Do not eat, drink or sm	
		othing must not be allowed out of the workplace.
		/protective clothing/eye protection/face protection.
		all a poison center or doctor if you feel unwell.
	P302+P352 - If on skin: Wash with plenty of water.	
		ES: Rinse cautiously with water for several minutes. Remove contact lenses,
	if present and easy to do. Con	tinue rinsing.
	P321 - Specific treatment (see	supplemental first aid instruction on this label).
	P330 - Rinse mouth.	
		occurs: Get medical advice/attention.
	P333+P313 - If skin irritation	or rash occurs: Get medical advice/attention.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P363 - Wash contaminated clothing before reuse.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with

local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients 3.1. Substances

Name	Product identifier	%	GHS US classification
LITHIUM BROMIDE (Main constituent)	CAS-No.: 7550-35-8	100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317

Full text of hazard classes and H-statements : see section 16 3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures	
First-aid measures general	: Call a poison center/doctor/physician if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: Rinse mouth. Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effect	ets (acute and delayed)
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.
4.3. Immediate medical attention and sp	ecial treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures 5.1. Suitable (and unsuitable) extinguishing n	nedia
Suitable extinguishing media	: Water spray. Dry powder. Foam.
5.2. Specific hazards arising from the chemic	al
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Special protective equipment and precau	itions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 6: Accidental release n 6.1. Personal precautions, protective	neasures equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contain	nment and cleaning up
Methods for cleaning up	• Mechanically recover the product

6.4. Reference to other sections	
Other information	: Dispose of materials or solid residues at an authorized site.
Methods for cleaning up	: Mechanically recover the product.

For further information refer to section 13.

SECTION 7: Handling and storage 7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including an	y incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection 8.1. Control parameters

LITHIUM BROMIDE (7550-35-8)	
No additional information available	
8.2. Appropriate engineering controls	
	usure good ventilation of the work station. Toid release to the environment. Ve equipment
Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
In case of insufficient ventilation, wear suitable respiratory equ	ipment

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Color	: white
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 550 °C
Freezing point	: Not applicable
Boiling point	: 1265 °C
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 3.464 g/cm ³
Solubility	: Very soluble.
	Water: > 1000 g/l
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	

No additional information available

SECTION 10: Stability and reactivity 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. 10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 11: Toxicological information 11.1. Information on toxicological effects	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Harmful if swallowed. Not classified Not classified
LITHIUM BROMIDE (7550-35-8)	
LD50 oral rat	> 500 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 15.57 mg/l
ATE US (oral)	500 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: Not applicable
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.

SECTION 12: Ecological information 12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
LITHIUM BROMIDE (7550-35-8)	
NOEC chronic fish	271.8 mg/l
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	

No additional information available 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations 13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information	
In accordance with DOT / TDG / IMDG / IATA	
14.1. UN number	

Not regulated for transport

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

14.2. UN proper shipping name				
Proper Shipping Name (DOT) :	Not applicable			
	Not applicable			
	Not applicable			
	Not applicable			
14.3. Transport hazard class(es)				
DOT				
Transport hazard class(es) (DOT) :	Not applicable			
TDG				
	Not applicable			
	1 tot appricate			
IMDG				
Transport hazard class(es) (IMDG) :	Not applicable			
ΙΑΤΑ				
	Not applicable			
14.4. Packing group	i tot uppnouste			
	Not applicable			
	Not applicable			
	Not applicable			
Packing group (IATA) :	Not applicable			
14.5. Environmental hazards				
	No supplementary informati	on available.		
14.6. Special precautions for user				
DOT				
No data available				
TDG				
No data available				
IMDG No data available				
IATA				
No data available 14.7. Transport in bulk according to Annex II of N	MARPOL 73/78 and the I	BC Code		
		DC Couc		
Not applicable				
CECTION 15. Decile to the second				
SECTION 15: Regulatory information 15.1. US Federal regulations				
Commercial status of components according to the United S	tates Environmental Drotactic	n Agency's Toyic Sub	stances Control Act (TSC	·
Name	CAS-No.	Listing	Commercial status	Flags

Name	CAS-No.	Listing	Commercial status	Flags
LITHIUM BROMIDE	7550-35-8	Present	Active	

15.2. International regulations

CANADA

LITHIUM BROMIDE (7550-35-8)

Listed on the Canadian DSL (Domestic Substances List)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

EU-Regulations

No additional information available

National regulations

LITHIUM BROMIDE (7550-35-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

No additional information available

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases	
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.