

# SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name Lithium bromide

CAS number 7550-35-8

Synonyms Lithium monobromide

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals.

# 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

### 1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

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

# 2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Warning

Hazard statements Harmful if swallowed. Causes skin irritation. Causes serious eye

irritationg. 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.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

### **SECTION 3: Composition/information on ingredients**

# 3.1 Components

	Chemical name	Common name and synonyms	CAS number	Concentration
ſ	Lithium bromide	Lithium monobromide	7550-35-8	>95%

### **SECTION 4: First aid measures**

### 4.1 Description of first-aid measures

#### General advice

If inhaled Remove from exposure, lie down. Remove to fresh air. If not breathing, give

artificial respiration. Get medical attention.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Get medical

attention.

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In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

If swallowed Clean mouth with water. Do NOT induce vomiting. Get medical attention.

# 4.2 Most important symptoms and effects, both acute and delayed

May cause allergic skin reaction. 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.

# 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to

local circumstances and the surrounding

environment.

**Unsuitable extinguishing media**No information available.

### 5.2 Specific hazards arising from the substance or mixture

Non-combustible. Hazardous combustion products: Hydrogen halides.

### 5.3 Special 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.

#### 5.4 Further information

Flash Point No information available.

**Autoignition Temperature** No information available.

**Explosion limits** 

UpperNo information available.LowerNo information available.Sensitivity to Mechanical ImpactNo information available.Sensitivity to Static DischargeNo information available.

**NFPA** 

Health	Flammability	Instability	Physical hazards
2	0	1	N/A

### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

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Use personal protective equipment as required. Ensure adequate ventilation. Should not be released into the environment.

### 6.2 Environmental precautions

Should not be released into the environment.

### 6.3 Methods and materials for containment and cleaning up

Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the environment.

#### 6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

### Precautions on safe handling

Avoid contact with skin and eyes. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance. Wash hands before breaks and immediately after handling the product.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

# 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible materials.

### Incompatibilities

Strong oxidizing agents. Strong acids.

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Occupational exposure limits

No information available.

# **Biological occupational exposure limits**

No information available.

### 8.2 Exposure controls

### Appropriate engineering controls

Ensure adequate ventilation, espicially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

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### Personal protective equipment

### **Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

### Skin and body 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/MSAH or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritationg or other symptoms are experienced.

# Control of environmental exposure

No information available.

### **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical State Powder Solid
Appearance Beige
Odor Odorless

Odor Threshold No information available

pH 7

Melting Point/Range 550 °C / 1022 °F Boiling Point/Range 1265 °C / 2309 °F

Evaporation Rate No information available Flammability (solid) No information available

Flammability or explosive limit

Upper No information available
Lower No information available
Vapor Pressure No information available
Vapor Density No information available

Density 3.46

Solubility

Partition coefficient; n-octanol/water

Autoignition Temp

Decomposition Temp

Viscosity

No information available

No information available

No information available

No information available

Molecular Formula BrLi
Molecular Weight 86.84

VOC Content(%) No information available

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# 9.2 Other safety information

No information available.

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

None known, based on information available.

### 10.2 Chemical stability

Stable under normal conditions. Hygroscopic.

# 10.3 Possibility of hazardous reactions

None under normal processing.

#### 10.4 Conditions to avoid

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

# 10.5 Incompatible materials

Strong oxidizing agents, strong acids.

### 10.6 Hazardous decomposition products

Hydrogen halides.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

### **Product Information, Component Information**

### **Acute toxicity**

Component	Component LD50 Oral		LC50 Inhalation	
Lithium bromide	1800 mg/kg (rat)	>2000 mg/kg (rat)	> 15.57 mg/L (rat) 4h	

### Skin corrosion/irritation

Irritating to skin

### Serious eye damage/eye irritation

Irritating to eyes.

### Respiratory or skin sensitization

May cause sensitization by skin contact.

### Germ cell mutagenicity

No information available.

### Carcinogenicity

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Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Lithium bromide	7550-35-8	Not listed				

### Specific target organ toxicity - single exposure

No information available

### Specific target organ toxicity - repeated exposure

No information available.

### Reproductive toxicity

No information available.

### **Chronic effects**

No information available.

#### 11.2 Additional Information

No information available.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Do not empty into drains.

Product		Species	Test Results	
Lithium bromide	LC50	Oncorhynchus mykiss	438 mg/L 96h	

# 12.2 Persistence and degradability

Soluble in water, persistence is unlikely based on information available.

# 12.3 Bio accumulative potential

No information available.

### 12.4 Mobility in soil

Will likely in the environment due to its water solubility.

### 12.5 Results of PBT and vPvB assessment

No information available.

# 12.6 Endocrine disrupting properties

No information available.

### 12.7 Other adverse effects

The toxicological properties have not been fully investigated.

### **SECTION 13: Disposal considerations**

# 13.1 Waste Disposal Methods

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Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# **SECTION 14: Transport information**

# DOT (US)

Not regulated

#### **IMDG**

Not regulated

### **IATA**

Not regulated

### **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)** 

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

See section 2 for more information

SARA 313 (TRI reporting)

Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act** 

Not regulated

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# **FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed

### **US state regulations**

**US. Massachusetts RTK - Substance List** 

Not listed

US. New Jersey Worker and Community Right-to-Know Act
Not listed

US. Pennsylvania Worker and Community Right-to-Know Law Not listed

**California Proposition 65** 

Not listed

### **SECTION 16: Other information**

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Revision: 0

### **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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