

WINDIA CHEMICALS PRIVATE LIMITED

130/1-9, THINNANUR ROAD, PULIVALAM POST,
MUSIRI TK., TRICHY DIST. PIN-621006.

SAFETY DATA SHEET

LITHIUM BROMIDE (LiBr) SOLUTION

1. Product Identification.

CAS No : 7550-35-8
Molecular Weight : 86.845
Chemical Formula : LiBr.
Company Identification : Windia Chemicals P. Ltd,
41,3rd Street, V.G.P Layout,
Injambakkam, Chennai-600041.
info@windiachemical.com

2. Hazards Identification.

Emergency Overview

GHS Classification	: Skin irritation (Category 2), H315
	: Eye irritation (Category 2), H319
	: Skin sensitization (Category 1), H317

GHS Label elements, including precautionary statements

Pictograms	
Signal Word	: Warning

Hazard statement(s)

H315	: Cause skin irritation
H317	: May cause an allergic skin reaction
H319	: Cause serious eye irritation

Precautionary statement(s)

P280	: Wear protective gloves
P302+P352	: IF ON SKIN: Wash with plenty of water.
P305+P338+P351	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Hazardous Materials Identification System (HMIS) Classification

Health Hazard	: 2
Fire Hazard	: 0

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Reactivity	: 0
Personal Protection	: E
National Fire Protection Association (NFPA) Rating	
Health Rating	: 2
Flammability Rating	: 0
Reactivity Rating	: 0
Contact Rating	: 0
Potential Health Effects	
Skin	: Cause skin irritation
Eyes	: Cause eye irritation
Ingestion	: Harmful if swallowed

3. Composition/Information on Ingredients.

Ingredients	CAS No	Percent
Lithium Bromide	7550-35-8	54 - 55.5
Water	7732-18-5	Balance

4. First Aid Measures

Eyes	: Rinse out with plenty of water. : Call an ophthalmologist. : Remove contact lenses.
Skin	: Take off immediately all contaminated clothing. : Rinse skin with water/ shower. : Consult a physician.
Ingestion	: Immediately make victim drink water (two glasses at most). : Consult a physician.
Notes to physician	: Treat symptomatically and supportively.

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5. Fire Fighting Measures

Extinguishing Media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Flash Point	: Not applicable.
Autoignition	: Not applicable.
Temperature	
Explosion Limits- Lower	: Not available.
Explosion Limits- Upper	: Not available.
Advice for firefighters	: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

6. Accidental Release Measures

Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. Cover drains. Collect, bind, and pump off spills. Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.

7. Handling and Storage

Observe label precautions. Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. Storage conditions- Tightly closed.

8. Exposure Controls/Personal Protect:

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Skin Protection	: Wear protective gloves and clean body-covering clothing.
Eye Protection	: Use chemical safety goggles and face shields. Maintain eye wash fountain and quick-drench facilities in work area.

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9. Physical and Chemical Properties.

Appearance	: Liquid.
pH	: Neutral
Odour	: Odourless.
Boiling Point	: No information available
Melting Point	: No information available
Solubility	: No information available
Upper or lower flammability limits	: No information available
Vapour threshold	: No information available
Odour threshold	: No information available
Vapour density	: No information available
Flash point	: No information available
Evaporation Rate	: No information available
Flammability	: No information available
Partition Coefficient: n-Octanol/water	: No information available
Auto Ignition Temperature	: No information available
Decomposition Temperature	: No information available
Viscosity	: No information available.

10. Stability and Reactivity

Stability	: The product is chemically stable under standard ambient conditions (room temperature).
Conditions of Instability	: Strong acids.
Hazardous Decomposition products	: Hydrogen Bromide gas and lithium oxides.
Incompatibilities	: No information available.
Conditions to Avoid	: No information available.
Polymerization	: Will not occur

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11. Toxicological Information

Component Information

Component	LD50 Oral	LD50 Dermal
Lithium Bromide Solution	1,383 mg/Kg (Rat)	>2,000 mg/Kg (Rat)

CAS#	7550-35-8
Carcinogenicity	No information available.
Epidemiology	No information available.
Teratogenicity	No information available.
Reproductive Effects	No information available.
Mutagenicity	No information available.
Neurotoxicity	No information available.
Aspiration Hazard	No information available.
Specific Target Organ Toxicity-single	No information available.
Specific Target Organ Toxicity-Repeat	No information available.

Potential Health Effects

Eyes	: Rinse out with plenty of water. : Call an Ophthalmologist. : Remove contact lenses.
Skin	: Take off immediately all contaminated clothing. : Rinse skin with water/ shower. : Consult a physician.
Ingestion	: Immediately make victim drink water (two glasses at most). : Consult a physician.

12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

13. Disposable Considerations

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

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14. Transport Information:

Not regulated.

15. Regulatory Information:

Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety data sheet complies with the requirements of regulation (EC) No. 1907/2006.

Protective Equipment:

Gloves, Lab coat, Dust respirator. Be sure to use an approved/ certified respirator or equivalent and safety glasses.

16. Other Information

Version no	: WCPL – LiBr Solution- SDS – 001
Date of Creation	: 01 - Feb – 2020
E-mail ID	: info@windiachemicals.com

Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Windia chemicals be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Windia chemicals has been advised of the possibility of such damages.



Approved By QC Manager

Govindaraj 26/02/2022