Material Safety Data Sheet

Lithium Bromide Water solution (RXSOL-39-9001-025)

1. Product and Company Identifaction

Product Name	Lithium Bromide Water solution
Part Number	RXSOL-39-9001-025
Chemical Formula	LiBr
Chemical Family	Inorganic Bromide
CAS No	7550-35-8
Molecular Weight	86.85
Type of product and use	Inorganic solution used as desiccate medium in air conditioning and cooling systems.

Company Details:
RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Stock Point : Mumbai, Kandla, Chennai, Visakhapatnam, Kolkata, Fujairah, Muscat OMAN

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2. Composition / informationon ingredients

Name of Substance	Cas Number	EC Number	Wight %
Lithium Bromide	7550-35-8	231-439-8	53-62%

3. Hazards Identification

Signal Word	Warning
Adverse human health effects	Risk of serious damage to eyes.

4. First Aid Measures

Eye Contact:	Holding the eyelids apart flush eyes promptly with copious flowing water for at least 20 minutes. Get medical attention immediately.
Skin Contact :	Remove contaminated clothing. Wash skin thoroughly with mild soap and plenty of water for at least 15 minutes. Wash clothing before reuse. Get medical attention if irritation persists.
Inhalation:	In case of inhalation or breathing fumes released from heated material, remove person to fresh air. Keep him quiet and warm. Apply artificial respiration if necessary and get medical attention immediately.
Ingestion:	If swallowed, wash mouth thoroughly with plenty of water and give water or milk to drink. Get medical attention immediately. NEVER GIVE AN UNCONSCIOUS PERSON ANYTHING TO DRINK.

5. Fire-fighting Measures

Flash Point	None.
Auto-ignition temperature	Not Available.
Flammable/Explosionlimits	Not Available
Etinguishing media	Material is not combustible. Use extinguishing media appropriate to surrounding fire conditions.
Fire fighting procedure	Cool containers with water spray. In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode.
Usual fire and explosion hazards	None known.

6. Accidental Release Measures

Personal precautions	Wear respirator, chemical safety goggles, rubber gloves and boots.
After spillage / leakage	Absorb on sand or vermiculite and place in closed container for disposal. Ventilate area and wash spill site after material pick-up is complete. Avoid access to streams, lakes or ponds.
Disposal Considerations	Avoid access to streams, lakes or ponds.Observe all federal, state and local environmental regulations when disposing of this material.

7. Handling and Storage

Handling	Avoid bodily contact. Keep containers tightly closed.
Storage	Store in a cool, well-ventilated area away from incompatible materials.

8. Exposure controls and personal protection

Ventilation requirements	Provide adequate ventilation. Use local exhaust as necessary, especially under misting conditions.
Personal protection equipment	
Respiratory protection :	Approved respirator.
Gloves :	Rubber gloves.
Eye Protection:	Chemical safety goggles.
Others :	Body covering clothes and boots.
Industrial hygiene :	Safety shower and eye bath should be provided.Do not eat, drink or smoke until after work showering and changing clothes.

9. Physical and chemical properties

Appearance:	Clear, colourless to yellow liquid, odourless.
Melting Point / range :	10oC (58%)
Boiling Point / range :	145 - 147oC (55%)
Vapour Pressure :	2.1 mm Hg at 20oC (55%)
Relative vapour density (air=1) :	Not available.
Evaporation rate (either=1) :	Not available.
Solubility in Water :	70 gr/100ml at 101oC
Solubility in other Solvent:	Miscible with Methanol, Ethanol (absolute),n-Propanol.
Thermal decomposition :	Not available.

10. Stability and reactivity

Stability	Stable under normal conditions.
Materials to avoid :	Strong acids.
Conditions to avoid :	None known.
Hazardous decomposition-products :	Hydrobromic Acid gas above 200oC
Hazardous Polymerization:	Will not occur.

11. Toxicological information

Effect of overexposure	
Ocular :	Severe irritant.
Dermal :	Mild irritant to intact skin.
Inhalation :	May irritate the upper respiratory tract.
Ingestion :	May cause vomiting, nausea, diarrhea and ataxia. Slurred speech, blurred vision, dizziness, sensory loss, convulsions and stupor may occur in cases of large intake.
Chronic toxicity :	Repeated skin contact may cause dermatitis.Repeated oral intake of bromides may affect the central nervous system. Warning symptoms include mental dullness, slurred speech,weakened memory, apathy, anorexia, constipation, drowsiness and loss of sensitivity to touch and pain.
Carcinogenicity :	Not known to be a carcinogen.
Mutagenicity :	Not mutagenic by the Armes Test.

12. Ecological information

Aquatictoxicity	: 48 Hour-EC50
Daphnia magna	: 45 mg/l

13. Disposal considerations

Waste treatment Method	Avoid access to streams, leaks or ponds. Observe all federal, state and local environmental regulations when disposing of this material.

14. Transport information

UN No. :	Not regulated.
IMO-IMDG CODE :	Not regulated.
ICAO / IATA :	Not regulated.
RID / ADR :	Not regulated.
US DOT :	Not regulated.

15. Regulatory information

Classification :	Irritant symbol required and dangerous to the environment.
R Phrase(s) :	R 41 : Risk of serious damage to eyes. R 52 : Harmful to aquatic organisms.
S Phrases :	S 26 : In case of contact with eyes, rinse mmediately with plenty of water and seek edical advice. S 39 : Wear eye / face protection. S 61 : Avoid release to the environment. Refer o special instructions / Safety Data Sheets.

16. Other information

Revision Information:	None
Other Information	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 weassume 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 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 **RX Marine International** has been advised of the possibility of such damages.