

1. Product and Company Identification

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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 desiccant medium in air conditioning and cooling

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 / Information on ingredients

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

3. Hazards Identification

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

4. First Aid Measures

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Eye Contact:	Holding the eyelids apart flush eyes promptly with copious amounts of water. Get medical attention immediately.
Skin Contact :	Remove contaminated clothing. Wash skin thoroughly with plenty of water for at least 15 minutes. Wash clothing before reuse. Get medical attention immediately.
Inhalation:	In case of inhalation or breathing fumes released from the product, move the person to fresh air. Keep him quiet and warm. Apply artificial respiration if necessary. Get medical attention immediately.
Ingestion:	If swallowed, wash mouth thoroughly with plenty of water. Get medical attention immediately. NEVER GIVE AN UNCONSCIOUS PERSON ANYTHING BY MOUTH.

5. Fire-fighting Measures

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Flash Point	None.
	Not Available.

Auto-ignition

temperature

Flammable/Explosio

Not Available

nlimits

Extinguishing 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-fight self-contained breathing apparatus in positive pressure mode.

Usual fire and

None known.

explosion hazards

6. Accidental Release Measures

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Personal precautions

Wear respirator, chemical safety glasses and boots.

After spillage / leakage

Absorb on sand or vermiculite and place in closed container. Avoid access to 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 local regulations when disposing of this material.

7. Handling and Storage

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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

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Ventilation requirements

Provide adequate ventilation. Use local exhaust as necessary.

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 shower and change clothes.

9. Physical and chemical properties

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Appearance:

Clear, colourless to yellow liquid, odourless.

Melting Point / range :

10°C (58%)

Boiling Point / range :

145 - 147°C (55%)

Vapour Pressure :

2.1 mm Hg at 20°C (55%)

Relative vapour density (air=1) :

Not available.

Evaporation rate (either=1) :

Not available.

Solubility in Water :

70 gr/100ml at 101°C

Solubility in other Solvent:	Miscible with Methanol, Ethanol (absolute),n-Propanol.
Thermal decomposition :	Not available.

10. Stability and reactivity

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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

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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 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. 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 Ames Test.

12. Ecological information

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

13. Disposal considerations

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Waste treatment Method	Avoid access to streams, leaks or ponds. Observe all federal, state and local environmental regulations when disposing of waste.
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14. Transport information

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

15. Regulatory information

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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 immediately with plenty of water. S 39 : Wear eye / face protection.

16. Other information

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Revision Information:
Other Information

None

The information above is believed to be accurate and available to us. However, we make no warranty of accuracy, implied, with respect to such information, and we should make their own investigations to determine its accuracy for particular purposes. In no event shall we be liable for any damages, for lost profits or any special, indirect, incidental, or consequential damages arising, even if **RX Marine International** has been notified.