

# Lithium Bromide 45

Part No. RXSOL-39-9001-300 — Generated 03 Oct 2026

## 1. Product and Company Identification

|                         |                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------|
| Product Name            | Lithium Bromide 45                                                                   |
| Part Number             | RXSOL-39-9001-300                                                                    |
| 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 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

|         |                                                        |
|---------|--------------------------------------------------------|
| Phone   | +91 22 27815540 / 41 / 42                              |
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| Email   | <a href="mailto:123@rxmarine.com">123@rxmarine.com</a> |
| Website | <a href="http://www.rxmarine.com">www.rxmarine.com</a> |

## 2. Composition / information on ingredients

| Name of Substance | Cas Number | EC Number | Wight % |
|-------------------|------------|-----------|---------|
| Lithium Bromide   | 7550-35-8  | 231-439-8 | 45      |

## 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                                                                                                                                |
| 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-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 :           | 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

|                                    |                                  |
|------------------------------------|----------------------------------|
| Stability                          | Stable under normal conditions.  |
| Materials to avoid :               | Strong acids.                    |
| Conditions to avoid :              | None known.                      |
| Hazardous decomposition-products : | Hydrobromic Acid gas above 200°C |
| 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 Ames 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 immediately with plenty of water and seek medical advice.  
S 39 : Wear eye / face protection.  
S 61 : Avoid release to the environment. Refer to special instructions / Safety Data Sheets.

### 16. Other information

Revision  
Information: None

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Other  
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