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CNAS IB0071



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# SAFETY DATASHEET

Product Name: Lithium Bromide Solution (I)

Effective Date: 2020-09-17

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Shanghai Research Institute of Chemical Industry Testing Co., Ltd.



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Unless noted otherwise, the test type is consignment test.

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# Zhenjiang Flier Refrigeration Engineering Technology Co.,Ltd.

## SAFETY DATA SHEET

### Lithium Bromide Solution (I)

#### SECTION1 PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Lithium Bromide Solution (I)  
**Company:** Zhenjiang Flier Refrigeration Engineering Technology Co.,Ltd.  
**Address:** NO. 80, Yicheng Street, Dantu District, Zhenjiang City, Jiangsu Province,  
212000, P.R.China  
**Email:** hr@zjfler.com  
**Fax:** 86-511-88815811  
**Emergency Phone:** 86-511-88815800  
**SDS Number:** 2620080193  
**Effective Date:** 2020-09-17

#### SECTION2 HAZARDS IDENTIFICATION

**GHS Classification:**

**Physical Hazards:**  
Not Classified

**Health Hazards:**  
Acute toxicity-Oral Category 5  
Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 2  
Skin sensitization Category 1

**Environmental Hazards:**  
Classification not possible

The hazards not mentioned are not applicable or no data available.

**GHS Labelling:**

**Pictogram:**





**Signal Word:**

Warning

**Hazard Statements:**

- H303 May be harmful if swallowed.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.

**Prevention Precautionary Statements:**

- P264 Wash thoroughly after handling.  
 P280 Wear protective gloves/eye protection /face protection.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P272 Contaminated work clothing should not be allowed out of the workplace.

**Response Precautionary Statements:**

- P301+P317 IF SWALLOWED: Get medical help.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P333+P317 If skin irritation or rash occurs: Get medical help.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P317 If eye irritation persists: Get medical help.

**Storage Precautionary Statements:**

None

**Disposal Precautionary Statements:**

- P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

**Other Hazards:**

The product contains 0.2% of components with no data or information for classification, and thus may have unknown potential hazards to human health and the environment.

**SECTION3 INFORMATION ON INGREDIENTS**

**Product name:** Lithium Bromide Solution ( I )

| Ingredient       | Concentration | CAS No.    | EC No.    |
|------------------|---------------|------------|-----------|
| Lithium bromide  | 50%           | 7550-35-8  | 231-439-8 |
| Water            | 49.8%         | 7732-18-5  | 231-791-2 |
| Lithium chromate | 0.2%          | 14307-35-8 | 238-244-7 |

**SECTION4 FIRST-AID MEASURES****Skin Exposure:**

In case of skin contact, flush with copious amounts of water. If irritation persists or rash occurs, call a physician.

**Eye Exposure:**

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes immediately. Assure adequate flushing by separating the eyelids with fingers. If irritation persists, call a physician.

**Inhalation Exposure:**

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician.



**Oral Exposure:**

If victim is conscious, wash mouth out with water. Get medical aid immediately.

**Most important symptoms and effects, both acute and delayed:**

No data available.

**Indication of any immediate medical attention and special treatment needed:**

No data available.

**SECTION5 FIRE FIGHTING MEASURES****Extinguishing Media:**

Suitable: Dry chemical, Water spray, Carbon dioxide or appropriate foam.

**Special hazards arising from the substance or mixture:**

May decompose upon combustion or in high temperatures to generate Lithium oxides, Chromium oxides, Hydrogen bromide gas (corrosive).

**Advice for firefighters:**

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fire-extinguishing work is done from the windward. Uninvolved persons should evacuate to a safe place.

**SECTION6 ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment. Remove all sources of ignition. Avoid breathing vapour. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to noninvolved personnel should be controlled around the leakage area by roping off.

**Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Avoid entering drains.

**Methods and materials for containment and cleaning up:**

Mix with inert material (e.g. dry sand, vermiculite) and transfer to a dry, clean, lidded container for disposal. Avoid inhalation. Ventilate area and wash spill site after material pickup is complete.

**SECTION7 HANDLING AND STORAGE****Precautions for safe handling:**

Wear appropriate protective clothing and chemical safety gloves. Avoid inhalation. Avoid contact with eyes, skin and clothing. Prevent generation of vapor or mist. Handling is performed in a well ventilated place. Keep away from ignition sources, heat and flame. Incompatibilities: Strong acids. Wash hands and face thoroughly after handling. No smoking at working site.

**Conditions for safe storage, including any incompatibilities:**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks, and flame. Incompatibilities: Strong acids. Keep away from sources of ignition. Storage place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

**SECTION8 EXPOSURE CONTROL/PPE****Control parameters:**

Not set up.

**Appropriate engineering controls:**

Mechanical exhaust required. Safety shower and eye bath.



**Personal Protective Equipment:**

Respiratory: Wear government approved respirator.

Eye: Wear chemical safety glasses.

Clothing: Wear appropriate protective clothing.

Hand: Wear compatible protective gloves.

**Other Protect:**

No smoking, drinking and eating at working site. Wash thoroughly after handling.

**SECTION9 PHYSICAL/CHEMICAL PROPERTIES**

|                          |                        |
|--------------------------|------------------------|
| <b>Appearance:</b>       | Yellowish green liquid |
| <b>Odor:</b>             | Weak odor              |
| <b>Odor Threshold:</b>   | No data available      |
| <b>pH Value:</b>         | 7.8-7.9                |
| <b>Solubility(ies):</b>  | Miscible in water      |
| <b>Melting Point/</b>    | No data available      |
| <b>Freezing Point:</b>   |                        |
| <b>Boiling Point,</b>    | No data available      |
| <b>Initial Boiling</b>   |                        |
| <b>Point and Boiling</b> |                        |
| <b>Range:</b>            |                        |
| <b>Flash Point</b>       | >96.0°C                |
| <b>(Closed Cup):</b>     |                        |
| <b>Density/Relative</b>  | No data available      |
| <b>Density:</b>          |                        |
| <b>Viscosity:</b>        | No data available      |
| <b>Upper/Lower</b>       | No data available      |
| <b>Flammability or</b>   |                        |
| <b>Explosive Limits:</b> |                        |
| <b>Vapor Pressure:</b>   | No data available      |
| <b>Vapor Density:</b>    | No data available      |
| <b>n-Octanol/Water</b>   | No data available      |
| <b>Partition</b>         |                        |
| <b>Coefficient:</b>      |                        |
| <b>Autoignition</b>      | No data available      |
| <b>Temperature:</b>      |                        |
| <b>Decomposition</b>     | No data available      |
| <b>Temperature:</b>      |                        |
| <b>Evaporation Rate:</b> | No data available      |
| <b>Flammability</b>      | Not applicable         |
| <b>(Solid, Gas):</b>     |                        |

**SECTION10 STABILITY AND REACTIVITY****Reactivity:**

No data available.

**Chemical stability:**

Stable under normal temperatures and pressures.

**Possibility of hazardous reactions:**

No data available.

**Conditions to avoid:**

No data available.



**Incompatible materials:**

Strong acids.

**Hazardous Decomposition Products:**

Lithium oxides, Chromium oxides, Hydrogen bromide gas (corrosive).

**SECTION11 TOXICOLOGICAL INFORMATION**

**Acute Toxicity:**

Lithium bromide: Rat Oral LD<sub>50</sub>: 1800 mg/kg

**Skin corrosion/irritation:**

Causes skin irritation.

**Serious eye damage/irritation:**

Causes serious eye irritation.

**Respiratory sensitization:**

No data available.

**Skin sensitization:**

May cause an allergic skin reaction.

**Germ cell mutagenicity:**

No data available.

**Carcinogenicity:**

No data available.

**Reproductive toxicity:**

No data available.

**Specific Target Organ Toxicity -Single Exposure:**

No data available.

**Specific target organ toxicity - repeated exposure:**

No data available.

**Aspiration hazard:**

No data available.

**SECTION12 ECOLOGICAL INFORMATION**

**Ecotoxicity:**

Lithium bromide:

Toxicity to fish LC<sub>50</sub> - Oncorhynchus mykiss (rainbow trout) - 438 mg/l - 96 h

NOEC - Oncorhynchus mykiss (rainbow trout) - 128 mg/l - 96 h

**Persistence and degradability:**

No data available.

**Bioaccumulative potential:**

No data available.

**Mobility in soil:**

No data available.

**Other adverse effects:**

No data available.

**SECTION13 DISPOSAL CONSIDERATION**

**Appropriate Method of Disposal of Substance:**

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with and afterburner and scrubber. Observe all federal, state, and local environmental regulations.



**SECTION14 TRANSPORT INFORMATION**

**RID/ADR:** The substance is not subject to RID/ADR.  
**IATA DGR:** The substance is not subject to IATA DGR.  
**IMO IMDG Code:** The substance is not subject to IMO IMDG Code.

**SECTION15 REGULATORY INFORMATION****Regulation (EC) No. 1272/2008 and the amendments:**

Acute toxicity-Oral Category 5  
Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 2  
Skin sensitization Category 1

**SECTION16 OTHER INFORMATION****Date:**

2020-09-17

**Department:**

Shanghai Research Institute of Chemical Industry Testing Co., Ltd.  
Tel (Fax) : +86-21-52815377/31765555

**Revision:**

0

**Reference Standard:**GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS), 8<sup>th</sup> revised edition**Other Information:**

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