

MATERIAL SAFETY DATA SHEET**Product Name:** Lithium chloride**CAS No.:** 7447-41-8**Version:** 0**1. Identification**

Product Code : 90690,91629,91555
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2. Hazards Identification**Hazard classification**

Acute toxicity, Oral : Category 4
Skin irritation : Category 2
Serious eye damage : Category 2
Specific target organ toxicity - single exposure : Category 3

Label elements**Hazard symbol**

Signal word : Warning
Hazard statement : Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
Precautionary statement : Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Other hazards which do not result in GHS classification : None.

3. Composition/information on ingredients

Ingredient	CAS No	Percent
LITHIUM CHLRIDE	7447-41-8	NLT-99.0%

MATERIAL SAFETY DATA SHEET**Product Name:** Lithium chloride**CAS No.:** 7447-41-8**Version:** 0**4. First Aid Measures****Description of first aid measures****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation

: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin contact

: Wash off with soap and plenty of water. Consult a physician.

Eye contact

: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Swallowed

: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

: To the best of our knowledge, the chemical, physical, and toxicological properties have not been Thoroughly investigated.

Indication of any immediate medical attention and special treatment needed Treatment

: No data available

5. Fire fighting measures**Extinguishing media****Suitable extinguishing media**

: Use extinguishing media appropriate to Surrounding fire conditions.

Special hazards arising from the substance or mixture

: Hydrogen chloride gas, Lithium oxides

Advice for firefighters

: Wear self contained breathing apparatus for fire fighting if necessary

Further information

: The product itself does not burn.

6. Accidental Release Measures**Personal precautions, protective equipment and emergency procedures**

: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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- Precautions for safe handling** : Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
- Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Hygroscopic
- Specific end use(s)** : No data available

8. Exposure Controls Personal Protection**Control parameters****Components with workplace control parameters****Exposure controls**

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment**Eye/face protection**

: Use equipment for eye protection tested and approved under appropriate government standards.

Skin Protection Hand protection

: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
Wash and dry hands.

Body Protection

: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

: Respiratory protection is required.

9. Physical and Chemical Properties

- Appearance** : A white crystalline powder
- Odor** : No data available
- pH** : 6
- Melting point/freezing point** : 605 °C
- Initial boiling point and boiling range** : 1.360 °C
- Flash Point** : Not applicable.

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Vapor pressure	: No data available
Vapor density	: No data available
Relative density	: 2.070 g/cm ³
Solubility in water	: No data available
Solubility (other)	: No data available
Formula	: LiCl
Molecular Weight	: 42.39 g/mol

10. Stability and Reactivity

Reactivity	: No data available
Chemical stability	: No data available
Possibility of hazardous reactions	: No data available
Conditions to avoid	: Exposure to moisture
Incompatible materials	: Strong acids, Strong oxidizing agents, Bromine trifluoride
Hazardous decomposition products	: No data available

11. Toxicological Information**Information on toxicological effects**

Acute toxicity	: LD50 Oral - rat - 526 mg/kg
Skin corrosion/irritation	: No data available
Serious eye damage/eye irritation	: No data available
Respiratory or skin sensitization	: No data available
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
Potential health effects	
Inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	: May be harmful if swallowed.
Skin	: May be harmful if absorbed through skin. May cause skin irritation.

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Eyes : May cause eye irritation.
Signs and Symptoms of Exposure : To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological Information

Toxicity : Toxicity to fish LC50 - *Ptychocheilus lucius* - 17 mg/l - 96 h
 Toxicity to daphnia and other aquatic invertebrates
 EC50 - *Daphnia magna* (Water flea) - 1,2 mg/l - 64 h

Persistence and degradability : No data available.
Bioaccumulative potential : No data available.
Mobility in soil : No data available.
Results of PBT and vPvB assessment : No data available.
Other adverse effects : Harmful to aquatic life.

13. Disposal consideration

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws.
Contaminated packaging : Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT			Not dangerous goods		
IMDG			Not dangerous goods		
IATA			Not dangerous goods		

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

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No Data Available.

16. Other Information**Issue Date :**01/08/2014**Version : 0**

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