SAFETY DATA SHEET

Product identifier

Product code: L1108
Product Name: LITHIUM CHLORIDE

Other means of identification

Synonyms: Chlorku litu [Polish]
Chlorure de lithium [French]

CAS #: 7447-41-8
RTECS #: OJ5950000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use:
Manufacture of mineral water; in pyrotechniques; soldering aluminum; in refrigerating machines; desiccant and humectant; dehumidifying agent in air conditioning; batteries; chemical intermediate for lithium metal and lithium borohydride; eutectic with potassium chloride, in metallurgy; additive to brazing fluxes; static drying agent; antistatic finish for fabrics; Catalyst for low temperature reaction between epoxides and carboxyl groups to yield polyester product; Additive in low-freezing fire-extinguishing solution; for drying gases; Dry lithium chloride is the feed material for manufacture of Li metal by electrolysis.

Uses advised against
No information available

Supplier:
Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person:
Tom Tyner (USA - West Coast)
Ibad Tirmiz (USA - East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

<table>
<thead>
<tr>
<th>Acute toxicity - Oral</th>
<th>Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/iritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</td>
</tr>
</tbody>
</table>

Label elements

Warning

Product code: L1108  Product name: LITHIUM CHLORIDE
Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
Not available

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves
Wear eye/face protection

Precautionary Statements - Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
IF ON SKIN: Wash with plenty of water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash it before reuse
IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell
Rinse mouth

Precautionary Statements - Disposal
Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lithium Chloride</td>
<td>7447-41-8</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an
unconscious person. Obtain medical attention.

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

**Symptoms**
- Causes serious eye irritation
- Causes skin irritation

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

**Notes to Physician:**
- Treat symptomatically.

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

---

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media:**
The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

**Unsuitable Extinguishing Media:**
No information available.

**Specific hazards arising from the chemical**

**Hazardous combustion products**
No information available.

**Specific hazards**
No information available.

**Special Protective Actions for Firefighters**

**Specific Methods:**
No information available.

**Special Protective Equipment for Firefighters:**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

---

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions:**
Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Environmental precautions**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and material for containment and cleaning up**

**Methods for containment**
Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up**
Use appropriate tools to put the spilled solid in a suitable waste disposal container. Clean contaminated surface thoroughly.

---

### 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Product code:** L1108  
**Product name:** LITHIUM CHLORIDE  
**Page** 3 / 11
**Technical Measures/Precautions:**
Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

**Safe Handling Advice**
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

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

**Technical Measures/Storage Conditions:**
Deliquescent. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

**Incompatible Materials:**
- Acids
- Strong oxidizing agents
- Halogens
- Bromine trifluoride

---

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**National occupational exposure limits**

**United States**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WEEL</th>
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**Canada**

<table>
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<tr>
<th>Component</th>
<th>CAS No</th>
<th>Canada - Alberta</th>
<th>Canada - British Columbia</th>
<th>Canada - Ontario</th>
<th>Canada - Quebec</th>
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**Australia and Mexico**

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<th>CAS No</th>
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<th>Mexico</th>
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<td>Lithium Chloride</td>
<td>7447-41-8</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

#### Appropriate engineering controls

**Engineering measures to reduce exposure:**
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Individual protection measures, such as personal protective equipment**

**Personal Protective Equipment**

**Eye protection:**  Goggles

**Skin and body protection:**  Long sleeved clothing

---

**Product code:**  L1108  
**Product name:**  LITHIUM CHLORIDE
Chemical resistant apron
Gloves

Respiratory protection: Effective dust mask. or. Wear respirator with dust filter. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product

# 9. PHYSICAL AND CHEMICAL PROPERTIES

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<thead>
<tr>
<th>Physical state:</th>
<th>Appearance:</th>
<th>Color:</th>
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<table>
<thead>
<tr>
<th>Odor:</th>
<th>Taste</th>
<th>Formula</th>
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</thead>
<tbody>
<tr>
<td>Odorless.</td>
<td>Saline.</td>
<td>LiCl</td>
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<table>
<thead>
<tr>
<th>Molecular/Formu</th>
<th>Flammability (solid, gas)</th>
<th>Flashpoint (°C/°F):</th>
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<th>Lower Explosion Limit (%):</th>
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<th>Melting point/range(°C/°F):</th>
<th>Decomposition temperature(°C/°F):</th>
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<table>
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<th>Bulk density:</th>
<th>Density (g/cm3):</th>
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<th>pH</th>
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<table>
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<th>Vapor density:</th>
<th>VOC content (g/L):</th>
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<td>No information available</td>
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<table>
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<th>Odor threshold (ppm):</th>
<th>Partition coefficient (n-octanol/water):</th>
<th>Viscosity:</th>
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<td>Easily soluble in water</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Easily soluble in methanol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Easily soluble in diethyl ether</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Easily soluble in n-octanol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Soluble in Acetone</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Very soluble in pyridine</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Very soluble in Ethanol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Very soluble in nitrobenzene</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Very slightly soluble in ammonium</td>
<td></td>
</tr>
<tr>
<td></td>
<td>hydroxide</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Solubility in water: 842 g/l @</td>
<td></td>
</tr>
<tr>
<td></td>
<td>25°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Solubility in water: 1,234 g/l @</td>
<td></td>
</tr>
<tr>
<td></td>
<td>100°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Solubility in acetone: 0.0411 g/ml @</td>
<td></td>
</tr>
<tr>
<td></td>
<td>25°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Solubility in methanol: 0.4236 g/ml @</td>
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</tr>
<tr>
<td></td>
<td>25°C</td>
<td></td>
</tr>
</tbody>
</table>

# 10. STABILITY AND REACTIVITY

Product code: L1108
Product name: LITHIUM CHLORIDE
Reactivity
Reactive with acids
Reactive with halogens
Reactive with strong oxidizing agents

Chemical stability

Stability: Deliquescent. Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Incompatible materials. Exposure to moisture.

Incompatible Materials:
- Acids
- Strong oxidizing agents
- Halogens
- Bromine trifluoride

Hazardous decomposition products:
Hydrogen chloride gas. Lithium oxides.

Other Information
Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Inhalation. Ingestion.

Acute Toxicity

Component Information

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>LD50/oral/rat</th>
<th>LD50/oral/mouse</th>
<th>LD50/dermal/rabbit</th>
<th>LD50/dermal/rat</th>
<th>LC50/inhalation/rat</th>
<th>LC50/inhalation/mouse</th>
<th>Other LD50 or LC50 information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lithium Chloride</td>
<td>7447-41-8</td>
<td>526 mg/kg</td>
<td>1165 mg/kg</td>
<td>1629 mg/kg</td>
<td>1488 mg/kg</td>
<td>5.57 mg/l 4 hr</td>
<td>No information available</td>
<td>No information available</td>
</tr>
</tbody>
</table>

Product Information

LD50/oral/rat =
Value - Acute Tox = 526 mg/kg

LD50/oral/mouse =
Value - Acute Tox Oral = 1165 mg/kg
LD50/dermal/rabbit
Value - Acute Tox = 1629 mg/kg

LD50/dermal/rat
VALUE - Acute Tox Dermal = 1488 mg/kg

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = 5.57 mg/l

LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

Symptoms

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye irritation.

Inhalation: May cause respiratory tract irritation.

Ingestion: Harmful if swallowed. May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea. It is an antidepressant/antipsychotic and may affect behavior/central nervous system (drowsiness, mental confusion, somnolence, muscle weakness, contraction, spasticity, tremors) if ingested in high doses. It may also affect the brain (degenerate changes), metabolism (anorexia), vision (blurred vision), blood, urinary system, cardiovascular system, and liver.

Aspiration hazard: No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity: Prolonged or repeated ingestion may affect behavior/central nervous system. Prolonged or repeated ingestion may affect the cardiovascular system.

Sensitization: No information available.

Mutagenic Effects: May affect genetic material

Carcinogenic effects: Not considered carcinogenic.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
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<tbody>
<tr>
<td>Lithium Chloride</td>
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<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity: No data is available.
Reproductive Effects: No information available
Developmental Effects: May cause adverse developmental effects based on animal data
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure No information available.
STOT - repeated exposure No information available.
Target Organs: Cardiovascular system. Central nervous system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Lithium Chloride - 7447-41-8
Fish 158 ppm 94 hours (Rainbow trout)
Crustacea 249 ppm 48 hrs (Daphnia Magna)

Persistence and degradability: No information available
Bioaccumulative potential: No information available.
Mobility in soil No information available
Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Lithium Chloride</td>
<td>7447-41-8</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Class: No information available
Packing group: No information available
Emergency Response Guide Number: No information available
Marine Pollutant: No data available
DOT RQ (lbs): No information available
Special Provisions: No information available
Symbol(s): No information available
Description: No information available
15. REGULATORY INFORMATION

International Inventories

<table>
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<tr>
<th>Component</th>
<th>CAS No</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>China IECSC</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<tbody>
<tr>
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<td>Present KE-22552</td>
<td>Present (1)-231</td>
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<td>231-212-3</td>
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U.S. Regulations

Product code: L1108  
Product name: LITHIUM CHLORIDE

Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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<td>Not Listed</td>
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CERCLA/SARA

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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<td>7447-41-8</td>
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U.S. TSCA

<table>
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<tr>
<th>Component</th>
<th>CAS No</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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<tbody>
<tr>
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<td>7447-41-8</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
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</tbody>
</table>

Canada

WHIMIS 2015 - GHS Classifications

WHIMIS 2015 Hazard Classification Information: Not a dangerous product according to HPR classification criteria.

Canada Hazardous Products Regulation: This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

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<table>
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<th>CAS No</th>
<th>CEPA Schedule I - Toxic Substances</th>
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<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
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EU Classification

EU GHS - SV - CLP 1272/2008

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<tr>
<td>Lithium Chloride</td>
<td>7447-41-8</td>
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</tr>
</tbody>
</table>

Product code: L1108  Product name: LITHIUM CHLORIDE  Page 10 / 11
R-phrase(s)
R22 - Harmful if swallowed
R36/38 - Irritating to eyes and skin

S-phrase(s)
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S46 - If swallowed, seek medical advice immediately and show this container or label
S36/37 - Wear suitable protective clothing and gloves

<table>
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<th>CAS No</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
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<td>No information</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
Xn - Harmful
Xi - Irritant

16. OTHER INFORMATION

Preparation Date: 07/01/2015
Revision date 4/18/2019
Prepared by: Sonia Owen

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End of Safety Data Sheet