# International Chemical Safety Cards

## LITHIUM

**LITHIUM**  
Li  
Atomic mass: 6.9

### CAS # 7439-93-2  
RTECS # OJ5540000  
ICSC # 0710  
UN # 1415  
EC # 003-001-00-4

### Types of Hazard/Exposure

<table>
<thead>
<tr>
<th><strong>FIRE</strong></th>
<th><strong>ACUTE HAZARDS/SYMPTOMS</strong></th>
<th><strong>PREVENTION</strong></th>
<th><strong>FIRST AID/FIRE FIGHTING</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Flammable. Many reactions may cause fire or explosion.</td>
<td>NO open flames, NO sparks, and NO smoking. NO contact with water.</td>
<td>Special powder, dry sand, NO other agents. NO water.</td>
</tr>
</tbody>
</table>

### Exposure

#### INHALATION

- Burning sensation. Cough.  
- Laboured breathing. Shortness of breath.

#### SKIN


#### EYES


#### INGESTION

- Abdominal cramps.  

### Spillage Disposal

Consult an expert! Collect spilled substance into dry metallic scalable container, carefully absorb remainder in dry sand or dry inert absorbent. Do NOT wash away into

### Storage


### Packaging & Labelling

Airtight.  
F symbol  
C symbol  
R: 14/15-34  
S: 8-43
International Chemical Safety Cards

ICSC: 0710

LITHIUM

PHYSICAL STATE; APPEARANCE: SOFT SILVER-WHITE METAL TURNS YELLOW ON EXPOSURE TO AIR AND MOISTURE.

PHYSICAL DANGERS:

CHEMICAL DANGERS: Heating may cause violent combustion or explosion. The substance may spontaneously ignite on contact with air when finely dispersed. Reacts violently with strong oxidants, acids and many compounds (hydrocarbons, halogens and halons) causing fire and explosion hazard. Reacts violently with water, forming highly flammable hydrogen gas and corrosive fumes of lithium hydroxide.

OCCUPATIONAL EXPOSURE LIMITS (OELs):
TLV not established

PHYSICAL PROPERTIES
- Boiling point: 1336°C
- Melting point: 180.5°C
- Relative density (water = 1): 0.5

ENVIRONMENTAL DATA
- Solubility in water: reaction
- Vapour pressure, Pa at 723°C: 133

NOTES
Reacts violently with fire extinguishing agents such as water. The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation is therefore essential. Immediate administration of an appropriate spray, by a doctor or a person authorized by him/her, should be considered.

Transport Emergency Card: TEC (R)-750
NFPA Code: H1; F1; R2;

ADDITIONAL INFORMATION

ICSC: 0710

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LITHIUM

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