

**MATERIAL SAFETY DATA SHEET****Product Name:** LITHIUM NITRATE**CAS No.:** 7790-69-4**Version:** 0**1. Identification**

**Product Code** : 91510  
**Company Name** : Advent Chembio Private Limited  
**Address** : W-288, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, NAVI MUMBAI - 400 701.  
**E-mail** : [info@adventchembio.com](mailto:info@adventchembio.com)  
**WEBSITE** : [www.adventchembio.com](http://www.adventchembio.com)  
**Company Phone Number** : 022-27690837

**2. Hazards Identification****Hazard classification**

Oxidizing solids : Category 3  
Acute toxicity, Oral : Category 4  
Eye irritation : Category 2

**Labels elements**

Hazard symbol

**Signal word** : Warning**Hazard statement** : May intensify fire; oxidizer.  
Harmful if swallowed.  
Causes serious eye irritation.**Precautionary statement** : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Keep/Store away from clothing/ combustible materials.  
Take any precaution to avoid mixing with combustibles.  
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
Rinse mouth.  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
In case of fire: Use dry powder or dry sand to extinguish.**Supplemental Hazard Statements** : None

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<b>Ingredient</b>	: LITHIUM NITRATE
<b>CAS No.</b>	: 7790-69-4
<b>Percent</b>	: NLT 98.0%
<b>Formula</b>	: LiNO <sub>3</sub>
<b>Molecular Weight</b>	: 68.95 g/mol

**4. First Aid Measures****Description of first aid measures**

<b>General advice</b>	: Consult a physician. Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>Skin contact</b>	: Wash off with soap and plenty of water. Consult a physician.
<b>Eye contact</b>	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Swallowed</b>	: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<b>Most important symptoms and effects, both acute and delayed</b>	: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11
<b>Indication of any immediate medical attention and special treatment needed</b>	: No data available

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

<b>Suitable extinguishing media</b>	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Special hazards arising from the substance or mixture</b>	: Nitrogen oxides (NO <sub>x</sub> ), Lithium oxides
<b>Advice for firefighters</b>	: Wear self contained breathing apparatus for firefighting if necessary.

**6. Accidental Release Measures**

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- Personal precautions, protective equipment and emergency procedures** : Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
- Environmental precautions** : Do not let product enter drains.
- Methods and materials for containment and cleaning up** : Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

**7. Handling and storage**

- 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.

**8. Exposure Controls / Personal Protection**

- Exposure limit** : No data available
- 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**
- Respiratory protection : Air-purifying respirators
- Hand protection : Handle with gloves
- Eye protection : Safety glasses with side-shields
- Skin and Body Protection : Complete suit protecting against chemicals

**9. Physical and Chemical Properties**

- Appearance** : A white crystalline powder
- Odor** : No data available
- pH** : 7 - 9 at 50 g/l at 20 °C
- Melting point/freezing point** : 264 °C - lit.
- Initial boiling point and boiling range** : No data available
- Flash Point** : No data available
- Vapor pressure** : No data available
- Vapor density** : No data available
- Relative density** : 2.38 g/cm<sup>3</sup>

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**Solubility in water** : 522 g/l at 20 °C  
**Solubility (other)** : No data available

**10. Stability and Reactivity**

**Reactivity** : No data available  
**Chemical stability** : Stable under recommended storage conditions.  
**Possibility of hazardous reactions** : No data available  
**Conditions to avoid** : Exposure to moisture  
**Incompatible materials** : Powdered metals, Combustible material, Organic materials, Reducing agents  
**Hazardous decomposition products** : Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NO<sub>x</sub>), Lithium oxides

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

**Acute toxicity** : No data available  
**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**  
IARC : No data available  
NTP : No data available  
OSHA : No data available  
**Reproductive toxicity** : No data available  
**Route of Exposure** : No data available  
**Signs and Symptoms of Exposure** : No data available

**12. Ecological Information**

**Toxicity** : No data available  
**Persistence and degradability** : No data available  
**Bioaccumulative potential** : No data available  
**Mobility in soil** : No data available.

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	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>DOT</b>	2722	LITHIUM NITRATE	5.1	III	NO
<b>IMDG</b>	2722	LITHIUM NITRATE	5.1	III	NO
<b>IATA</b>	2722	LITHIUM NITRATE	5.1	III	NO

**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  
No Data Available.

**16. Other Information****Issue Date** :01/06/2014**Version** : 0

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PRODUCT(S).