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**MATERIAL SAFETY DATA SHEET (MSDS)****LITHIUM NITRATE LR****1 - Chemical Product**

MSDS Name:Lithium nitrate  
Synonym:Nitric acid lithium salt

Cas NO:7790-69-4

Product Coad: L0122600500

Molecular Formula: LiNO<sub>3</sub>  
Molecular Weight: 68.9459

**2 - COMPOSITION, INFORMATION ON INGREDIENTS**

CAS#	Chemical Name	content	EINECS#
7790-69-4	Lithium Nitrate	100.0	232-218-9

**Section 3 - HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

Contact with combustible material may cause fire.Oxidizer.

**Potential Health Effects**

Eye:Causes eye irritation.

Skin:Causes skin irritation. Chronic ingestion may cause dizziness, ringing in the ears, visual disturbances, tremors, and mental confusion. Prolonged absorption may affect electrolyte balance and impair kidney function.

Ingestion:May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause muscle tremor and impaired motor function. May cause circulatory system failure. May cause cardiac disturbances. May cause methemoglobinemia, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), convulsions, and death.

Methemoglobinemia is characterized by dizziness, drowsiness, headache, shortness of breath, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), rapid heart rate and chocolate-brown colored blood. May cause tremors and convulsions.

Inhalation:Causes respiratory tract irritation. May cause methemoglobinemia, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), convulsions, tachycardia, dyspnea (labored breathing), and death.

Chronic:Chronic ingestion may cause dizziness, ringing in the ears, visual disturbances, tremors, and mental confusion. Prolonged absorption may affect electrolyte balance and impair kidney function.

**4 - FIRST AID MEASURES**

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation:Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

**5 - FIRE FIGHTING MEASURES**

General Information:As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Oxidizer. Greatly increases the burning rate of combustible materials.

Extinguishing Media:Use water only! Do NOT use carbon dioxide. Do NOT use dry chemical.

**6 - ACCIDENTAL RELEASE MEASURES**

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions.

**7 - HANDLING and STORAGE**

Handling:Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Avoid ingestion and inhalation. Discard contaminated shoes. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage:Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

**MATERIAL SAFETY DATA SHEET (MSDS)****LITHIUM NITRATE LR****8 - EXPOSURE CONTROLS, PERSONAL PROTECTION****Engineering Controls:**

Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

**Personal Protective Equipment Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:**Wear appropriate protective gloves to prevent skin exposure.

**Clothing:**Wear appropriate protective clothing to prevent skin exposure.

**Respirators:**Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

**9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Solid

Color: colorless

Odor: none reported

pH: Neutral in solution.

Vapor Pressure: Not applicable.

Viscosity: Not applicable.

Boiling Point: 1112 deg F

Freezing/Melting Point: 507 deg F

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: 1112 deg F

Solubility in water: 90 g/l (28 C)

Specific Gravity/Density: 2.38

**10 - STABILITY AND REACTIVITY**

**Chemical Stability:**Stable under normal temperatures and pressures.

**Conditions to Avoid:**Incompatible materials, combustible materials, organic materials, reducing agents.

**Incompatibilities with Other Materials:**

Cyanides, thiocyanates, isothiocyanates, hypophosphites.

**Hazardous Decomposition Products:**Nitrogen oxides.

**Hazardous Polymerization:** Has not been reported.

**11 - TOXICOLOGICAL INFORMATION**

**RTECS#:**

CAS# 7790-69-4 unlisted.

**LD50/LC50:**

Not available.

**Carcinogenicity:**

Lithium Nitrate - Not listed by ACGIH, IARC, or NTP.

See actual entry in RTECS for complete information.

**12 - ECOLOGICAL INFORMATION****13 - DISPOSAL CONSIDERATIONS**

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

**14 - TRANSPORT INFORMATION**

**IATA**

Shipping Name: LITHIUM NITRATE

Hazard Class: 5.1

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**MATERIAL SAFETY DATA SHEET (MSDS)****LITHIUM NITRATE LR**

UN Number: 2722  
Packing Group: III  
IMO  
Shipping Name: LITHIUM NITRATE  
Hazard Class: 5.1  
UN Number: 2722  
Packing Group: III  
RID/ADR  
Shipping Name: LITHIUM NITRATE  
Hazard Class: 5.1  
UN Number: 2722  
Packing group: III

**15 - REGULATORY INFORMATION**

European/International Regulations  
European Labeling in Accordance with EC Directives  
Hazard Symbols: O  
Risk Phrases:  
R 8 Contact with combustible material may cause fire.  
Safety Phrases:  
WGK (Water Danger/Protection)  
CAS# 7790-69-4: 1  
United Kingdom Occupational Exposure Limits  
United Kingdom Maximum Exposure Limits  
Canada  
CAS# 7790-69-4 is listed on Canada's DSL List.  
CAS# 7790-69-4 is not listed on Canada's Ingredient Disclosure List.  
Exposure Limits  
US FEDERAL  
TSCA  
CAS# 7790-69-4 is listed on the TSCA inventory.

**16. Other Information**

**Product Use:** Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**