

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

performance through chemistry

Date of issue: 01/31/2014 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form	: Substance
Substance name	: Lithium Nitrate
CAS No	: 7790-69-4
Product code	: LC16250
Formula	: LiNO3
Synonyms	: nitric acid, lithium salt
BIG no	: 11532
1.2. Relevant identified uses of the subs	tance or mixture and uses advised against
Use of the substance/mixture	: For laboratory and manufacturing use only.
1.3. Details of the supplier of the safety of	data sheet
LabChem Inc Jackson's Pointe Commerce Park Building 1000, Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 <u>info@labchem.com</u> - <u>www.labchem.com</u>	, 1010 Jackson's Pointe Court
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 or 011-703-527-3887
SECTION 2: Hazards identification	
2.1. Classification of the substance or m	ixture
GHS-US classification	
Ox. Sol. 3 H272	
Skip Irrit 2 H215	

Skin Irrit. 2 H315 Eye Irrit. 2A H319

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2.2. Label elements	
GHS-US labelling	
Hazard pictograms (GHS-US)	: CHS03 CHS07 CHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H272 - May intensify fire; oxidiser H315 - Causes skin irritation H319 - Causes serious eye irritation
Precautionary statements (GHS-US)	<ul> <li>P210 - Keep away from heat, sparks, open flames, hot surfaces No smoking P220 - Keep/Store away from clothing, combustible materials P221 - Take any precaution to avoid mixing with combustibles P264 - Wash exposed skin thoroughly after handling P280 - Wear protective gloves, protective clothing, eye protection, face protection P302+P352 - IF ON SKIN: Wash with plenty of soap and water P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P332+P313 - If skin irritation occurs: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse P370+P378 - In case of fire: Use carbon dioxide (CO2), powder, alcohol-resistant foam for extinction P501 - Dispose of contents/container to comply with local, state and federal regulations</li> </ul>
2.3. Other hazards	
Other hazards not contributing to the	: None under normal conditions.
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according to Federal Register / Vol. 77, No. 58 / Mon	day, March 26, 2012 / Rules and Regulations		
classification			
2.4. Unknown acute toxicity (GHS-US			
No data available			
SECTION 3: Composition/informa	tion on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier % GHS-US classification		
Lithium Nitrate (Main constituent)	(CAS No) 7790-69-4 100 Ox. Sol. 3, H272 Skin Irrit. 2, H315 Eye Irrit. 2A, H319		
Full text of H-phrases: see section 16			
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respirator	ry	
	arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomitin prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming the keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.	ng: up).	
First-aid measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.		
First-aid measures after skin contact	: Wash immediately with lots of water. Do not apply (chemical) neutralizing agents. Take victim a doctor if irritation persists.	n to	
First-aid measures after eye contact	: Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.		
First-aid measures after ingestion	: Rinse mouth with water. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital	I.	
4.2. Most important symptoms and e	ffects, both acute and delayed		
Symptoms/injuries after inhalation	: AFTER INHALATION OF DUST: Irritation of the respiratory tract. Irritation of the nasal mucou membranes.	us	
Symptoms/injuries after skin contact	: Tingling/irritation of the skin.		
Symptoms/injuries after eye contact	: Irritation of the eye tissue.		
Symptoms/injuries after ingestion	: Headache. Gastrointestinal complaints. AFTER ABSORPTION OF HIGH QUANTITIES: Feel of weakness. Dizziness. Vomiting. Nausea. Blood in stool.	ling	
4.3. Indication of any immediate med	ical attention and special treatment needed		
No additional information available			
<b>SECTION 5: Firefighting measure</b>	5		
5.1. Extinguishing media			
Suitable extinguishing media	: Preferably: water spray.		
Unsuitable extinguishing media	: Dry chemical powder. Carbon dioxide.		
5.2. Special hazards arising from the	substance or mixture		
Fire hazard	: INDIRECT FIRE HAZARD. Promotes combustion. Reactions involving a fire hazard: see "Reactivity Hazard".		
Explosion hazard	: DIRECT EXPLOSION HAZARD. No data available on direct explosion hazard. INDIRECT EXPLOSION HAZARD. No data available on indirect explosion hazard.		
Reactivity	: On burning: release of toxic and corrosive gases/vapours (nitrous vapours). Reacts with combustible materials: (increased) risk of fire.		
5.3. Advice for firefighters			
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.		
Firefighting instructions	: Dilute toxic gases with water spray.		
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.		

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6.1. Personal precautions, protective e	
	quipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	: Gloves. Face-shield. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Dust cloud production: dust-tight suit.
Emergency procedures	: Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes.
Measures in case of dust release	: In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection. Do not breathe dust.
Emergency procedures	: If a major spill occurs, all personnel should be immediately evacuated and the area ventilated. Ventilate area.
6.2. Environmental precautions	
Prevent spreading in sewers.	
6.3. Methods and material for containm	nent and cleaning up
For containment	: Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the solid spill. Knock down/dilute dust cloud with water spray.
Methods for cleaning up	Stop dust cloud by covering with sand/earth or dry soda ash. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. See "Material-handling" for suitable container materials. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Comply with the legal requirements. Remove contaminated clothing immediately. Clean
	contaminated clothing. Keep the substance free from contamination. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Avoid raising dust. Keep away from naked flames/heat. Reduce/avoid exposure and/or contact. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.
7.2. Conditions for safe storage, includ	installation before use. Do not discharge the waste into the drain. Avoid raising dust. Keep away from naked flames/heat. Reduce/avoid exposure and/or contact. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.
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Incompatible products	installation before use. Do not discharge the waste into the drain. Avoid raising dust. Keep away from naked flames/heat. Reduce/avoid exposure and/or contact. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.
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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations : Face shield. In case of dust production: protective goggles. Eye protection Skin and body protection : Protective clothing. In case of dust production: head/neck protection. In case of dust production: dustproof clothing. Respiratory protection : Dust production: dust mask with filter type P2. SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties	
Physical state	: Solid
Appearance	: Crystalline solid. Crystalline powder.
Molecular mass	: 68.94 g/mol
Colour	: Colourless to white.
Odour	: No data available on odour.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 264 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: 600 °C
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 2.4
Density	: 2380 kg/m³
Solubility	: Soluble in water. Soluble in ethanol. Soluble in other organic solvents. Water: 43 g/100ml
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: May intensify fire; oxidiser.
Explosive limits	: No data available
9.2. Other information	
VOC content	: Not applicable
Other properties	: Hygroscopic.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

On burning: release of toxic and corrosive gases/vapours (nitrous vapours). Reacts with combustible materials: (increased) risk of fire.

10.2.	Chemical stability
Hygrosco	pic.
10.3.	Possibility of hazardous reactions
Reacts e	xothermically with combustible materials: (increased) risk of fire.
10.4.	Conditions to avoid
Finely div	rided metals. Incompatible materials.
10.5.	Incompatible materials
combusti	ble materials. Organic compounds. metals.
10.6.	Hazardous decomposition products
lithium ox	ide. Nitrogen oxides.

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SECTION 11: Toxicological information	tion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: AFTER INHALATION OF DUST: Irritation of the respiratory tract. Irritation of the nasal mucous membranes.
Symptoms/injuries after skin contact	: Tingling/irritation of the skin.
Symptoms/injuries after eye contact	: Irritation of the eye tissue.
Symptoms/injuries after ingestion	: Headache. Gastrointestinal complaints. AFTER ABSORPTION OF HIGH QUANTITIES: Feeling of weakness. Dizziness. Vomiting. Nausea. Blood in stool.
Likely routes of exposure	: Skin and eye contact;Inhalation

### 12.1. Toxicity

### Ecology - water

: Maximum concentration in drinking water: 50 mg/l (nitrate) (Directive 98/83/EC). May cause eutrophication. No data available on ecotoxicity.

12.2. Persistence and degradability	
Lithium Nitrate (7790-69-4)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
12.3. Bioaccumulative potential	
Lithium Nitrate (7790-69-4)	
Bioaccumulative potential	No bioaccumulation data available.
12.4. Mobility in soil	

No additional information available

### 12.5. Other adverse effects

No additional information available

<b>SECTION 13: Disposal considerations</b>	
13.1. Waste treatment methods	
Waste disposal recommendations	Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse. Do not discharge into surface water.
Additional information	Hazardous waste according to Directive 2008/98/EC.

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SECTION 14: Transport information	
In accordance with DOT	
Transport document description	: UN2722 Lithium nitrate, 5.1, III
UN-No.(DOT)	: 2722
DOT NA no.	: UN2722
DOT Proper Shipping Name	: Lithium nitrate
Department of Transportation (DOT) Hazard Classes	: 5.1 - Class 5.1 - Oxidizer 49 CFR 173.128
Hazard labels (DOT)	: 5.1 - Oxidiser
	5.1
Packing group (DOT)	: III - Minor Danger
DOT Special Provisions (49 CFR 172.102)	<ul> <li>A1 - Single packagings are not permitted on passenger aircraft. IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. T1 - 1.5 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 152
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 213
DOT Packaging Bulk (49 CFR 173.xxx)	: 240
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 100 kg
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Additional information	
Other information	: No supplementary information available.
State during transport (ADR-RID)	: as solid.
ADR	
Transport document description	: UN 2722 Lithium nitrate, 5.1, III, (E)
Packing group (ADR)	: III
Class (ADR)	: 5.1 - Oxidizing substances
Hazard identification number (Kemler No.)	: 50
Classification code (ADR)	: 02
Danger labels (ADR)	: 5.1 - Oxidizing substances

5.1/

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Orange plates	50 2722
Tunnel restriction code	: E
Transport by sea	
UN-No. (IMDG)	: 2722
Class (IMDG)	: 5.1 - Oxidizing substances
EmS-No. (1)	: F-A
EmS-No. (2)	: S-Q
Air transport	
UN-No.(IATA)	: 2722
Class (IATA)	: 5 - Oxidizing substances
Packing group (IATA)	: III - Minor Danger

SECTION 15: Regulatory information		
15.1. US Federal regulations		
Lithium Nitrate (7790-69-4)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
SARA Section 311/312 Hazard Classes	Reactive hazard	

### 15.2. International regulations

#### CANADA

Lithium Nitrate (7790-69-4)	
Listed on the Canadian DSL (Domestic Sustances List) inventory.	
WHMIS Classification	Class C - Oxidizing Material

#### **EU-Regulations**

No additional information available

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Ox. Sol. 3 H272 Eye Irrit. 2 H319 Skin Irrit. 2 H315 Full text of H-phrases: see section 16

### Classification according to Directive 67/548/EEC or 1999/45/EC

O; R8 Xi; R36/38 Full text of R-phrases: see section 16

### 15.2.2. National regulations

Lithium Nitrate (7790-69-4) Not listed on the Canadian Ingredient Disclosure List

### 15.3. US State regulations

No additional information available

### **SECTION 16: Other information**

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases: see section 16:	
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Ox. Sol. 3	Oxidising Solids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H272	May intensify fire; oxidiser
H315	Causes skin irritation
H319	Causes serious eye irritation

NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.
NFPA reactivity	: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.
NFPA specific hazard	: OX - This denotes an oxidizer, a chemical which can greatly increase the rate of combustion/fire.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 1 Slight Hazard
Physical	: 1 Slight Hazard
Personal Protection	: F

SDS US (GHS HazCom 2012)

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