

NICE **SAFETY DATA SHEET**

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Catalogue No : L 10519
Product Name : Lithium nitrate anhydrous
Nice Chemicals (P) Ltd., PB No: 2217,
Manufacture / Supplier Identification Company : Manimala Road, Edappally, Kochi - 682 024,
Kerala, India.
Tel: 91-484-2800212, 2802755, 2802536,
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Emergany Telfone No : 0484 2801583
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2 COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms :
CAS - No : 7790-69-4
Molar Mass :
Molecular weight : 68.95 g/mol
Molecular Formula : LiNO₃
EC - INDEX No :
EC - No : 232-218-9

3 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 : Oxidizing solids (Category 3), H272

Classification according to EU Directives 67/548/EEC or 1999/45/EC : O Oxidising R 8

Label Elements

Labelling according Regulation (EC) No 1272/2008

Pictogram : 
Signal word : Warning

Hazard statement (s)
H272 : May intensify fire; oxidiser.

Precautionary statement(s)

P220 : Keep/Store away from clothing/ combustible materials.

Supplemental Hazard Statements : none

Other Hazards : none

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4 FIRST AID MEASURES

After Inhalation	:	If breathed in, move person into fresh air, If not breathing, give artificial respiration. Consult a physician.
After skin contact	:	Wash off with soap and plenty of water. Consult a physician.
After eye contact	:	Flush eyes with water as a precaution.
After swallowing	:	Never give anything by mouth to an unconscious person. Rinse mouth water. Consult a physician.
Most Important symptoms and effects, both acute and delayed	:	The most important known symptoms and effects are described in the labelling and/or in section 11.
Indication of any immediate medical attention and special treatment needed	:	no data available

5 FIRE - FIGHTING MEASURES

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	:	nitrogen oxides (NO x), Lithium oxides
Advice for firefighters	:	Wear self contained breathing apparatus for fire fighting if necessary.
Further Information	:	Use water spray to cool unopened container.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental-protection	:	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. Keep in suitable, closed containers for disposal.

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7 HANDLING AND STORAGE

Precautions for safe handling	:	Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition No smoking. Keep away from heat and sources of ignition.
Conditions for safe storage, including any incompatibilities	:	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Hygroscopic
Specific end users	:	Apart from the users mentioned in section 1.2 no other specific uses are stipulated.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameter	:	Complements with workplace control parameters
Exposure Controls		
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		
Eye/face protection	:	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)
Skin Protection	:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374 derived from it.
Body Protection	:	Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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Respiratory Protection	:	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
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9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance		Form : Crystalline Colour : Colourless
Odour	:	No data available
Odour Threshold	:	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
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper/lower flammability or explosive limits	:	No data available
Vapour Pressure	:	No data available
Vapour Density	:	No data available
Relative density	:	2,38 g/cm ³
Water solubility	:	522 g/l at 20 °C
Partition coefficient: noctanol/water	:	No data available
Autoignition temperature	:	No data available
Viscosity	:	No data available
Explosive properties	Page 4 of 7 :	No data available

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Oxidizing properties	:	The substance or mixture is classified as oxidizing with the category 3.
Other Safety information	:	No data available

10 STABILITY AND REACTIVITY

Reactivity	:	No data available
Chemical stability	:	Stable under recommended storage conditions.
Conditions to be avoid	:	Exposure to moisture.
Substance to be avoided	:	No data available
hazardous decomposition products	:	Other decomposition products - no data
Possibility of hazardous reactions	:	No data available
incompatible materials	:	Powdered metals, Combustile material, Organic materials, Reducing agents.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity	:	No data available
Further toxicological Information		
Carcinogenicity	:	IARC : No component of this product present at levels greater than or equal to 0.1 % is identified as probable, possible or confirmed human carcinogen by IARC.
Eye Irritation test (rabbit)	:	No data available
After Inhalation	:	No data available
After Skin contact	:	No data available
After swallowing	:	No data available
After swallowing of large amounts	:	No data available
Further data	:	No data available
Specific target organ toxicity - single exposure	:	No data available
Signs and symptoms of Exposure	:	Central nervous system depression, Vomiting, Diarrhoea



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Additional Information	:	RTECS: QU9330000
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burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Large doses of lithiumion have caused dizziness and prostration, and can cause kidney damage if sodium intake is limited. Dehydration, weight loss, dermatological effects, and thyroid disturbances have been reported. Central nervous system effects that include slurred speech, blurred vision, sensory loss, ataxia, and convulsions may occur. Diarrhea, vomiting, and neuromuscular effects such as tremor, clonus, and hyperactive reflexes may occur as a result of repeated exposure to lithium ion., Cyanosis and t-wave inversion have occurred in the breast-fed infants of women receiving lithium carbonate therapy., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12 ECOLOGICAL INFORMATION

Toxicity	:	No data available
Persistence and degradability	:	No data available
Bioaccumulative potential	:	No data available
Mobility in soil	:	No data available
Results of PBT and vPvB assessment	:	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effects	:	No data available

13 DISPOSAL METHOD

Waste treatment methods	:	
Product	:	Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	:	Dispose of as unused product.

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14 TRANSPORT INFORMATION

UN number	:	ADR/RID: - 2722 IMDG: - 2722 IATA: - 2722
UN Proper shipping name	:	ADR/RID: LITHIUM NITRATE IMDG: LITHIUM NITRATE IATA: Lithium nitrate
Transport hazard class(es)	:	ADR/RID: - 5.1 IMDG: - 5.1 IATA: - 5.1
Packaging group	:	ADR/RID: - III IMDG: - III IATA: - III
Environmental group	:	ADR/RID: - no IMDGMarine pollutant: no IATA: -no

15 REGULATORY INFORMATION

This safety datasheet compiles with the requirements of Regulation (EC) No. 1907/2006

Safety, health and environmental regulations/legislation specific for the substance or mixture	:	No data available
Chemical safety assessment	:	For this product a chemical safety assessment was not carried out.

16 OTHER INFORMATION

Full text of H-Statement referred to under section 2 and 3	:	H272 May intensity fire; oxidiser.
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