WF Education Group - Safety Data Sheet

L13542

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 2.0 (Replaces revision 1.1 of 16 April 2021)

Revision date: Date printed:

20 April 2021 07 June 2021

Section 1. Identification

1.1 Product Identifier LI3542

Product Name LITHIUM NITRATE ANHYDROUS pure 100g.

CAS Number 7790-69-4

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

Molecular Formula Lino =68.99

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier WF Education Group



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(24hr) 112 (Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Oxidising solid, category 3 H272: May intensify fire; oxidizer. Acute toxicity, category 4 (oral) H302: Harmful if swallowed. Serious eye damage/irritation, category 2 H319: Causes serious eye irritation.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Warning

Hazard Pictograms





Hazard Statements

May intensify fire; oxidizer. Harmful if swallowed. Causes serious eye irritation.

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Precautionary Statements

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing / combustible materials. Take any precaution to avoid mixing with combustibles... Wear protective

gloves / protective clothing / eye protection.

Section 3. Composition

3.1 Substances

Component	CAS No. 1	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Lithium nitrate	7790-69-4	232-218-9		99%	Ox. Sol. 3,Acute Tox. 4 (O),Eye Irrit. 2

Section 4. First Aid

4.1 Description of first aid measures

Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists Eyes

OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water.

Inhalation Remove from exposure. If material has reacted with an acid to form, nitrous fumes, Obtain immediate medical

attention even if patient is not complaining of discomfort.

Ingestion If conscious give plenty of water to drink, Keep warm and at rest. If there is difficulty in breathing give oxygen if

available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media Water spray. Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

May evolve toxic fumes if involved in a fire. Mixtures with combustible materials are flammable. Mixtures with Hazards

finely divided combustible materials can react explosively.

5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate area immediately. If contact with acid is possible, use full protective clothing and breathing apparatus. Personal Protection

Only re-enter area with full protective clothing and breathing apparatus.

6.2 Environmental precautions

Enviromental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Shovel/sweep up into container for removal Wash area down with copious amounts of water. Minor Spillage Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage. Store in a suitable area for oxidising agents. Keep well separated from combustible materials.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

1	Component	CAS No	Concentration	Workplace Exposure Limits			
				Long Term (8	Bhr TWA)	Short Term 15min period)	
1	Lithium nitrate	7790-69-4	99%	-	-	-	-

Exposure data source(s) No occupational exposure data currently available.

8.2 Exposure controls

Respiratory Protection If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.

Hand Protection Wear gloves.

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance White crystalline solid.
Odour No specific odour.
pH Not applicable

Boiling Point 450 °C (Decomposition)

Melting Point 255 °C
Flash Point Not applicable
Upper Flammable Limit
Lower Flammable Limit
Auto Ignition Not applicable
Not applicable
Not applicable

Explosive Properties No.

Oxidising Properties A strong oxidising agent.

Vapour Pressure Not applicable Relative Density 2.3800

Water Solubility 1020 g/L Very soluble in water.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous No data available.

reactions

10.4 Conditions to Avoid Avoid contact with acids or combustible materials. 10.5 Incompatable Materials Many organic compounds. Combustible materials.

Not flammable but will assist a fire, producing irritant and toxic fumes of oxides of nitrogen. Hazardous Decomposition

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Causes serious eye irritation.

Skin Contact with the solid or dust will be irritating to the skin.

LD50 Skin >2000 mg/Kg Rat

Ingestion Ingestion of toxic quantities causes; vomiting, diarrhoea, apathy, impaired vision, hearing defects, drowsiness and

cardiovascular failure.

LD50 Oral 1317 mg/Kg Rat Inhalation Same as ingestion.

LD50 Inhalation >5.93 mg/L air Rat (4 hours)

TCLo Not available

Carcinogenicity Not considered to be a carcinogen. Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Section 12. Ecological

12.1 Toxicity Do not allow to enter drinking water supplies, waste water, or soil. The following applies to lithium compounds in

general: biological effects: fish: toxic from 100mg/l up; crustaceans: Daphnia toxic from 16 mg/l up; plants: toxic from 0.2 mg/l up. The following applies to nitrates in general: may contribute to the eutrophication of water supplies. Fish: LC50 > 500 mg/l.

LC50 Algal Not available LC50 Crustacea Not available Not available LC50 Fish 12.2 Persistence and

degradability

No data available.

12.3 Bioaccumulative potential No data available. 12.4 Mobility in soil No data available.

Results of PBT & vPvB

assessment

Assessment not required.

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Do not dispose of as domestic waste. Contaminated Packaging Wash out containers with water.

Section 14. Transport Information

14.1 UN Number 2722

14.2 Proper Shipping Name Lithium nitrate

14.3 Transport classes

UN classification 5.1
Subsidiary hazard(s) None
Transport category 3
ADR Hazard ID 50
Tunnel Restriction Code E

14.4 Packing Group III

14.5 Environment hazards See section 12.

14.6 Special precautions for

14.7 Transport in bulk Not transported in bulk.



Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for subtance/mixture.

No special precautions required.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Oxidising solid, category 3; Acute toxicity, category 4 (oral); Serious eye damage/irritation, category 2

Signal word Warning

Hazard Pictograms





Hazard Statements H272, H302, H319

May intensify fire; oxidizer. Harmful if swallowed. Causes serious eye irritation.

Precautionary Statements P210, P220, P221, P280

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing / combustible materials. Take any precaution to avoid mixing with combustibles... Wear protective gloves / protective clothing / eye protection.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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