

SAFETY DATA SHEET

Creation Date 05-Oct-2010

Revision Date 24-Dec-2021

Revision Number 4

1. Identification

Product Name

Lithium nitrate

Cat No. :

Synonyms

CAS No

AC211320000; AC211320010; AC211320050; AC211322500

7790-69-4 Nitric acid,

Recommended Use Uses advised against

Nitric acid, lithium salt. Laboratory chemicals.

Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

A	xidizing solids cute oral toxicity erious Eye Damage/Eye Irritation	Category 3 Category 4 Category 2

Label Elements

Signal Word Warning

Hazard Statements May intensify fire; oxidizer Harmful if swallowed



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep/Store away from clothing/ other combustible materials

Take any precaution to avoid mixing with combustibles

Wear protective gloves/protective clothing/eye protection/face protection

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %				
Lithium nitrate		7790-69-4	>95				
	4.	First-aid measures					
General Advice If symptoms persist, call a physician.							
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least medical attention.							
Skin Contact Wash off immediately with plenty of water for at least 15 minutes. If skin irritation personal a physician.							
Inhalation	Remove to fr symptoms or	resh air. If not breathing, give artificial re ocur.	espiration. Get medical attention if				
Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical atter symptoms occur.							
Most important symptoms and None reasonably foreseeable.							
Notes to Physician	Treat sympto	omatically					
	5. Fi	re-fighting measures					

Suitable Extinguishing Media	Water spray.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Oxidizing Properties	Oxidizer

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.). Non-combustible. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Nitrogen oxides (NOx).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u>	Health 2	Flammability 0	Instability 2	Physical hazards OX				
		6. Accidental rel	ease measures					
Personal	Precautions			dequate ventilation. Avoid dust				
Environn	nental Precautions	Should not be released into	the environment.					
Methods Up	for Containment and C	ean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.						
		7. Handling a	and storage					
Handling	1	dust formation. Avoid inges		re adequate ventilation. Avoid in eyes, on skin, or on clothing.				
Storage.		Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials. Incompatible Materials. Strong oxidizing agents. Strong reducing agents. Acids. Combustible material.						
	8.	Exposure controls /	personal protection	on				
Exposure	e Guidelines		ain any hazardous materials wi ion specific regulatory bodies.	th occupational exposure				
Engineer	ing Measures		n, especially in confined areas. se to the workstation location.	Ensure that eyewash stations				

Personal Protective Equipment

Eye/face Protection	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 and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.			
Respiratory Protection	No protective equipment is needed under normal use conditions.			
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.			

9. Physical and chemical properties

Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	251 °C / 483.8 °F
Boiling Point/Range	600 °C / 1112 °F @ 760 mmHg
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	2.380
Solubility	90 g/L (28°C)
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	> 600°C
Viscosity	Not applicable
Molecular Formula	Li N O3
Molecular Weight	68.95

10. Stability and reactivity

Reactive Hazard	Yes				
Stability	Oxidizer: Contact with combustible/organic material may cause fire. Hygroscopic.				
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Combustible material. Exposure to moist air or water.				
Incompatible Materials	Strong oxidizing agents, Strong reducing agents, Acids, Combustible material				
Hazardous Decomposition Product	s Nitrogen oxides (NOx)				
Hazardous Polymerization	Hazardous polymerization does not occur.				
Hazardous Reactions	None under normal processing.				
11. Toxicological information					

Acute Toxicity

Product Information

Component Informa	ation									
Componer		LD50 Oral		LD50 Dermal	LC50 I	LC50 Inhalation				
Lithium nitra	ate	1426 mg/kg (Rat) >2000 mg/kg (Rat) LC50 > 5.93 mg/L (R								
Toxicologically Syn Products Delayed and immed	-		No information available vell as chronic effects from short and long-term exposure							
Irritation		Irritating to eyes								
Sensitization		No information availa	able							
Carcinogenicity		The table below indic	cates whether ea	ach agency has list	ed any ingredient a	as a carcinogen.				
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico				
Lithium nitrate Mutagenic Effects	7790-69-4	Not listed No information availa	Not listed	Not listed	Not listed	Not listed				
Reproductive Effec	ts	No information availa								
Developmental Effe	ects	No information availa	able.							
Teratogenicity		No information availa	able.							
STOT - single expo STOT - repeated ex		None known None known								
Aspiration hazard		No information available								
Symptoms / effects delayed	s,both acute and	No information available								
Endocrine Disrupto	or Information	No information available								
Other Adverse Effe	cts	The toxicological properties have not been fully investigated.								
		12. Ecolog	gical infor	mation						
Ecotoxicity Do not empty into dra	ains									
Persistence and De	gradability	Soluble in water Pers	sistence is unlike	ely based on inform	nation available.					
Bioaccumulation/ A	ccumulation	No information available.								
Mobility		Will likely be mobile in the environment due to its water solubility.								
		13. Disposal considerations								
Waste Disposal Me	thods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.								
		14. Transport information								
DOT UN-No Proper Shipping Hazard Class Packing Group <u>TDG</u> UN-No	g Name	UN2722 LITHIUM NITRATE 5.1 III UN2722								

Proper Shipping Name Hazard Class Packing Group IATA	LITHIUM NITRATE 5.1 III
UN-No	UN2722
Proper Shipping Name	LITHIUM NITRATE
Hazard Class	5.1
Packing Group	III
IMDG/IMO	
UN-No	UN2722
Proper Shipping Name	LITHIUM NITRATE
Hazard Class	5.1
Packing Group	III
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Lithium nitrate	7790-69-4	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Lithium nitrate	7790-69-4	Х	-	232-218-9	Х	Х	Х	Х	Х	KE-22582

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Component		CAS No	Weight %	SARA 313 - Threshold Values %		
Lithium nitrate		7790-69-4	>95	1.0		
SARA 311/312 Hazard Categories	See section 2	for more information				
CWA (Clean Water Act)	Not applicable					
Clean Air Act	Not applicable					
OSHA - Occupational Safety and Health Administration	Not applicable					
CERCLA	Not applicable					
California Proposition 65	This product d	oes not contain any Prop	osition 65 chemicals.			
U.S. State Right-to-Know Regulations						

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island			
Lithium nitrate	-	Х	-	Х	-			
U.S. Department of Trans	•							
Reportable Quantity (RQ): DOT Marine Pollutant	Ν							
DOT Severe Marine Pollut	ant N							
U.S. Department of Home Security	eland This pro	This product does not contain any DHS chemicals.						
Other International Regu	lations							
Mexico - Grade	No infor	No information available						

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Lithium nitrate	7790-69-4	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Lithium nitrate	7790-69-4	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information			
Prepared By	Regulatory Affairs		
	Thermo Fisher Scientific		
	Email: EMSDS.RA@thermofisher.com		
Creation Date	05-Oct-2010		
Revision Date	24-Dec-2021		
Print Date	24-Dec-2021		
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).		

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS