

SAFETY DATA SHEET

Creation Date 05-Oct-2010

Revision Date 19-Jan-2018

Revision Number 3

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Product Name

AC211320000; AC211320010; AC211320050; AC211322500

Cat No. :

CAS-No Synonyms 7790-69-4 Nitric acid, lithium salt.

Lithium nitrate

1.

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.Details of the supplier of the safety data sheet

<u>Company</u> Fisher Scientific 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)

Oxidizing solids	Category 3
Acute oral toxicity	Category 4
Serious Eye Damage/Eye Irritation	Category 2

Label Elements

Signal Word Warning

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



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

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 15 minutes. Get medical attention.						
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.						
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.						
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.						
Most important symptoms and effects	None reason	ably foreseeable.					
Notes to Physician	Treat sympto	omatically					
	5. Fi	re-fighting measures					

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
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> Hea 2		Flammability 0	Instability 2	Physical hazards OX				
		6. Accidental release	e measures					
Personal Precautions Use personal protective equipment as required. Ensure adequate ventilation. Avoid du formation.								
Environmental I	Precautions	Should not be released into the er	ivironment.					
Methods for Co Up	ntainment and Clean	Sweep up and shovel into suitable containers for disposal. Soak up w suitable containers for disposal.						
		7. Handling and s	U					
Handling	dling Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Avoid ingestion and inhalation. Do not get in eyes, on skin, or on clothing. Keep away from clothing and other combustible materials.							
Storage		Keep containers tightly closed in a combustible materials.	dry, cool and well-ventilated p	place. Do not store near				
		posure controls / per						
Exposure Guide	<u>elines</u>	This product does not contain any limitsestablished by the region spe		upational exposure				
Engineering Me	easures	Ensure adequate ventilation, espe and safety showers are close to the		e that eyewash stations				
Personal Protec	ctive 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
pH	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 Ö3
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 Information Component LD50 Oral LD50 Dermal LC50 Inhalation

Lithium nitrat	e	1426 mg/kg (Rat) >2000 mg/kg (Rat) Not listed							
Toxicologically Synergistic		No information availab	No information available						
Products	ata affasta a	a wall an abrania affacta	fuana ab aut a						
Delayed and Immedi	ate effects a	s well as chronic effects	from short a	na long-term expo	sure				
Irritation		Irritating to eyes	Irritating to eyes						
Sensitization		No information availab	ble						
Carcinogenicity		The table below indica	ates whether e	each agency has list	ted any ingredient a	as a carcinogen.			
ComponentCAS-NoLithium nitrate7790-69-4		IARC Not listed	NTP Not listed	ACGIH Not listed	OSHA Not listed	Mexico Not listed			
Mutagenic Effects		No information availab	ole		· · · · ·				
Reproductive Effect	S	No information availab	ole.						
Developmental Effect	cts	No information availab	ole.						
Teratogenicity		No information availab	ole.						
STOT - single expos STOT - repeated exp		None known None known							
Aspiration hazard		No information availab	No information available						
Symptoms / effects delayed	both acute a	No information available							
Endocrine Disruptor	Information	No information availab	No information available						
Other Adverse Effec	ts	The toxicological prop	The toxicological properties have not been fully investigated.						
		12. Ecolog	ical info	rmation					
Ecotoxicity Do not empty into dra	ins								
Persistence and Dec	gradability	Soluble in water Persi	stence is unli	kely based on inform	nation available.				
Bioaccumulation/ A	cumulation	No information availab	ole.						
Mobility		Will likely be mobile in	Will likely be mobile in the environment due to its water solubility.						
		13. Disposa							
Waste Disposal Met	hods	hazardous waste. Ch	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. Transp	ort infor	mation					
DOT UN-No Proper Shipping Hazard Class Packing Group <u>TDG</u> UN-No Proper Shipping Hazard Class Packing Group		UN2722 LITHIUM NITRATE 5.1 III UN2722 LITHIUM NITRATE 5.1 III							

IATA_	
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	
	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 - 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), Australia (AICS), China (IECSC), Korea (ECL).

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

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 f	or 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 does not contain any Proposition 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 Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν

DOT Severe Marine Pollutant	Ν
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

16. Other information		
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com	
Creation Date Revision Date Print Date Revision Summary	05-Oct-2010 19-Jan-2018 19-Jan-2018 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