

SAFETY DATA SHEET

Creation Date 15-Dec-2010Revision Date 18-Jan-2018Revision Number 41. IdentificationProduct NameLithium chloride, anhydrousCat No. :L120500, L121100, L121500; NC1415456; XXL121WA25KG

CAS-No Synonyms

7447-41-8 Lithium monochloride.

Recommended Use Uses advised against Laboratory chemicals. Not for food, 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

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 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)

Acute oral toxicity	Category 4
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2

Label Elements

Signal Word Warning

Hazard Statements Harmful if swallowed Causes skin irritation 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 Wear protective gloves/protective clothing/eye protection/face protection Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Response Get medical attention/advice if you feel unwell Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Skin IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse Eves 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 Indestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Storage Store in a well-ventilated place. Keep container tightly closed 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 chloride		7447-41-8	>95	
	4.	First-aid measures		
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. Obtain medical attention.			
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.			
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.			
Most important symptoms and effects	No information available.			
Notes to Physician	Treat symptomatically			
	5. Fi	re-fighting measures		
Suitable Extinguishing Media	Water spray.	Carbon dioxide (CO 2). Dry chemical. C	hemical foam.	
Unsuitable Extinguishing Media	No information available			

Flash PointNo information availableMethod -No information available

Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Imp Sensitivity to Static Discharg			
Specific Hazards Arising from th Non-combustible. Thermal decomp		itating gases and vapors.	
Hazardous Combustion Products Hydrogen chloride gas Chlorine Protective Equipment and Preca As in any fire, wear self-contained b protective gear.	utions for Firefighters	emand, MSHA/NIOSH (approve	ed or equivalent) and full
NFPA	Flammability	Instability	Physical bazards
Health 2	Flammability 0	Instability 1	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions	Use personal protective equ	uipment. Ensure adequate vent	
Environmental Precautions	eyes and clothing. Avoid du See Section 12 for addition		y from and upwind of spill/leak.
Methods for Containment and Cl Up	ean Sweep up or vacuum up sp formation.	illage and collect in suitable cor	ntainer for disposal. Avoid dust
	7. Handling a	and storage	
Handling		quipment. Ensure adequate ver tion. Do not breathe dust. Prote	ntilation. Avoid contact with skin ect from moisture.
Storage	Keep in a dry, cool and well from direct sunlight. Store u	-ventilated place. Keep contain nder an inert atmosphere.	er tightly closed. Keep away
8.	Exposure controls /	personal protectic	n
Exposure Guidelines	This product does not conta	in any hazardous materials wit ion specific regulatory bodies.	
Engineering Measures		n, especially in confined areas. se to the workstation location.	Ensure that eyewash stations
Personal Protective Equipment			
Eye/face Protection		e eyeglasses or chemical safety ction regulations in 29 CFR 191	
Skin and body protection	Wear appropriate protective	e gloves and clothing to prevent	t skin exposure.
Respiratory Protection	EN 149. Use a NIOSH/MSH	regulations found in 29 CFR 1 A or European Standard EN 1 d or if irritation or other sympto	
Hygiene Measures	Handle in accordance with	good industrial hygiene and saf	ety practice.

9. Physical and chemical properties

Physical State Appearance Odor **Odor Threshold** pН . Melting Point/Range Boiling Point/Range Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density **Specific Gravity** Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity Molecular Formula **Molecular Weight**

Solid White Odorless No information available 7-8 50 g/l aq.sol 605 °C / 1121 °F 1382 °C / 2519.6 °F @ 760 mmHg No information available Not applicable No information available

No data available No data available 1.33 hPa @ 547 °C Not applicable 2.060 No information available No data available

No information available Not applicable CI Li 42.38

10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Hygroscopic. Absorbs moisture from air and becomes liquid.		
Conditions to Avoid	Exposure to light. Incompatible products. Exposure to moist air or water.		
Incompatible Materials	Acids, Strong oxidizing agents, Halogens, Metals		
Hazardous Decomposition Products Hydrogen chloride gas, Chlorine			
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		

11. Toxicological information

Acute Toxicity

Product Information

Component Information		LD50 Dermal	LC50 Inhalation			
Component	LD50 Oral					
Lithium chloride	LD50 = 526 mg/kg (Rat)	>2000 mg/kg (Rat) >5.57 mg/L/4h (R				
Foxicologically Synergistic	No information available					
Products						
Delayed and immediate effects	as well as chronic effects from s	hort and long-term exposur	·e_			
rritation	Irritating to eyes and skin					
Intation	initiating to eyes and skin					
Sensitization	No information available					
Carcinogenicity	The table below indicates wh	ether each agency has listed	any ingredient as a carcinoge			

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico		
Lithium chloride	7447-41-8	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information available						
Reproductive Effects		No information available.						
Developmental Effect	s	No information available.						
Teratogenicity		No information available.						
STOT - single exposu STOT - repeated expo		e None known						
Aspiration hazard		No information available						
Symptoms / effects,b delayed	oth acute and	d No information available						
Endocrine Disruptor I	nformation	No information available						
Other Adverse Effects	dverse Effects The toxicological properties have not been fully investigated.							

12. Ecological information

Ecotoxicity

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Lithium chloride	Not listed	EC50: 158 mg/L/96h	Not listed	Not listed
		(rainbow trout)		
Persistence and Degradability Soluble in water Persistence is unlikely based on information available				

Soluble in water Persistence is unlikely based on information available. Persistence and Degradability

Bioaccumulation/Accumulation

No information available.

Mobility

. Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Lithium chloride	-2.66

	13. Disposal considerations
Waste Disposal Methods	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 TDG IATA IMDG/IMO	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Lithium chloride	Х	Х	-	231-212-3	-		Х	Х	Х	Х	Х

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Legend:
X - Listed
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E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable
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 Healt Not applicable	th Administration
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation	
Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Secu This product does not contain any DH	
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	15-Dec-2010 18-Jan-2018 18-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