

SAFETY DATA SHEET

Creation Date 15-Dec-2010	Revision Date 13-Jan-2010	6 Revision Number 2	
	1. Identification		
Product Name	Lithium chloride, anhydrous		
Cat No. :	t No. : AC413270000; AC413270025; AC413270050; AC413271000; AC413275000		
Synonyms	Lithium monochloride.		
Recommended Use	Laboratory chemicals.		
Uses advised against Details of the supplier of the safe	No Information available ty data sheet		
Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Entity / Business Name 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)

Acute oral toxicity
Skin Corrosion/irritation
Serious Eye Damage/Eye Irritation

Category 4 Category 2 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

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 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 immedi Obtain medica	ately with plenty of water, also under al attention.	the eyelids, for at least 15 minutes.
Skin Contact	Wash off imm	ediately with plenty of water for at lea	ast 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/effects Notes to Physician	No information available. Treat symptomatically		
	5. Fir	e-fighting measures	
Suitable Extinguishing Media	Water spray.	Carbon dioxide (CO 2). Dry chemical.	Chemical foam.
Unsuitable Extinguishing Media	No information	n available	
Flash Point Method -	No information available No information available		
Autoignition Temperature Explosion Limits Upper	No data availa	able	

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

Specific Hazards Arising from the Chemical

Non-combustible. Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

Hydrogen chloride gas Chlorine

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.

NFPA						
Health 2	Flammability 0	Instability 1	Physical hazards N/A			
	6. Accidental rel	ease measures				
Personal Precautions			ntilation. Avoid contact with skin, ay from and upwind of spill/leak.			
Environmental Precautions	See Section 12 for addition	See Section 12 for additional ecological information.				
Methods for Containment an Up	d Clean Sweep up or vacuum up sp formation.	illage and collect in suitable co	ontainer for disposal. Avoid dust			
	7. Handling a	and storage				
Handling		quipment. Ensure adequate ve tion. Do not breathe dust. Pro	entilation. Avoid contact with skin tect from moisture.			
Storage	Keep in a dry, cool and wel from direct sunlight. Store u	I-ventilated place. Keep contai Inder an inert atmosphere.	ner tightly closed. Keep away			
	8. Exposure controls /	personal protecti	on			
Exposure Guidelines	This product does not conta	ain any known or suspected re	productive hazards			
Engineering Measures	•	n, especially in confined areas se to the workstation location.	. Ensure that eyewash stations			
Personal Protective Equipme	ent_					
Eye/face Protection		e eyeglasses or chemical safe ction regulations in 29 CFR 19	ty goggles as described by 010.133 or European Standard			
Skin and body protection	Wear appropriate protective	e gloves and clothing to prever	nt skin exposure.			
Respiratory Protection	EN 149. Use a NIOSH/MSH	r regulations found in 29 CFR HA or European Standard EN ed or if irritation or other symp				
Hygiene Measures	Handle in accordance with	good industrial hygiene and sa	afety practice.			
	9. Physical and che	emical properties				
Physical State Appearance Odor	V	Solid Vhite Ddorless				

Lithium chloride, anhydrous

Odor Threshold pH 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	No information available 7-8 50 g/l aq.sol 605 °C / 1121 °F 1382 °C / 2519.6 °F @ 760 mmHg No information available No data available No data available 1.33 hPa @ 547 °C Not applicable 2.060 No information available No data available
Decomposition Temperature	
Viscosity	Not applicable
Molecular Formula	CI Li
Molecular Weight	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 Product	s Hydrogen chloride gas, Chlorine		
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		

11. Toxicological information

Acute Toxicity

Product Information

ng/kg (Rat)	>5.57 mg/L/4h (Rat)
ig-term exposure	-
gency has listed ar	ny ingredient as a carcinog
ACGIH	OSHA Mexico
Not listed	Not listed Not listed

Reproductive Effects

No information available.

Developmental Effects	No information available.
Teratogenicity	No information available.
STOT - single exposure STOT - repeated exposure	None known None known
Aspiration hazard	No information available
Symptoms / effects,both acute and	No information available
delayed Endocrine Disruptor Information	No information available
Other Adverse 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 (rainbow trout)	Not listed	Not listed
Persistence and Degradability Soluble in w		ter Persistence is unlikely	based on information avail	lable.
Bioaccumulation/Accun	nulation No information	on 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	
<u>DOT</u> 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

Legend: X - Listed

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 Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Ha Reactive Hazard	Yes Yes No No No
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA Occupational Safety and Healt Not applicable	h 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
Canada This product has been classified in the MSDS contains all the informati	accordance with the hazard criteria of the Controlled Products Regulations (CPR) and ion required by the CPR
WHMIS Hazard Class	D1B Toxic materials D2B Toxic materials
	16. Other information

Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
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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