



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

221 Rochester Street
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MSDS No.: LL0220
Effective Date: January 12, 2007

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Lithium Chloride
Chemical Synonyms	N/A
Formula	LiCl
Unit Size	up to 2.5 Kg
C.A.S. No.	7447-41-8



CHEMTREC
800-424-9300
Day 585-226-6177

Health	2
Fire	0
Reactivity	0

NFPA

HAZARD RATING				
MINIMAL	SLIGHT	MODERATE	SERIOUS	SEVERE
0	1	2	3	4

HMIS*

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Lithium Chloride	> 99%	See Section V.
CAUTION! HARMFUL IF SWALLOWED. CAUSES		

IRRITATION TO SKIN AND EYES. DELIQUESCENT. HYGROSCOPIC.

SECTION III PHYSICAL DATA

Melting Point (°F)	610°C (1130°F)	Specific Gravity (H ₂ O = 1)	2.165
Boiling Point (°F)	1360°C (2480°F)	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (Water =1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	1 g/1.3 mL		
Appearance & Odor	White crystalline solid, hygroscopic; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Use any media suitable for extinguishing supporting fire.				

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may cause decomposition and produce irritating fumes and toxic gases of lithium compounds and hydrogen chloride; can react with strong acids.

SECTION V HEALTH HAZARD DATA

LL0220

Threshold Limited Value None established. (ACGIH 2001). OSHA PEL: 5 mg/m³ respirable fraction; 15 mg/m³ total dust. Toxicity data: Oral (rat) 526 mg/kg.

Effects of Overexposure Inhalation of dust may irritate the nose, throat and other tissues of the respiratory system. Contact with the skin and eyes can cause severe irritation, with itching, pain and redness. Ingestion may cause a rash, ring in the ears, nausea, vomiting, diarrhea, difficulty speaking, drowsiness, twitching, visual disturbances and coma. Chronic ingestion can also cause kidney damage, irregular heartbeat, low blood pressure, loss of appetite, thirst and circulatory failure. Target organs: Kidneys, reproductive and central nervous systems, skin and eyes.

Emergency and First Aid Procedures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Readily absorbs moisture. Keep dry.
	Stable	X		

Incompatibility (Materials to Avoid) Strong acids, strong oxidizers and bromine trifluoride.

Hazardous Decomposition Products Thermal decomposition may produce hydrogen chloride and lithium compounds.

Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X
Not applicable.	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Avoid generating dust. Sweep up and place in a suitable container for reclamation or disposal. Wash spill area with soap and water.

Waste Disposal Method Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Dispose of in an approved chemical landfill or contract with a licensed waste disposal agency.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None should be needed in normal laboratory handling. If dusty conditions prevail, work in a ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.

Ventilation	Local Exhaust	None needed.	Special	No.
	Mechanical (General)	If dusty.	Other	No.

Protective Gloves Rubber. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Goggles, smock, apron, eye wash station, proper gloves.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from incompatible materials. Avoid inhalation of dusts. Wash thoroughly after handling.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Avoid contact with skin, eyes and clothing. Do not take internally. Remove and wash contaminated clothing.

D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

Revision No. 8	Date 01/12/07	Approved James A. Bertsch	Chemical Safety Coordinator JAB
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