



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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(716) 226-6177

MSDS No. LL 220
Effective Date March 22, 1999

SECTION V HEALTH HAZARD DATA

LL 220

Threshold Limited Value

None established. (ACGIH 1992-93). OSHA PEL: 5 mg/m³ respirable fraction; 15 mg/m³ total dust. Toxicity data: Oral (rat) 526 mg/kg.

Effects of Overexposure

TARGET ORGANS AFFECTED: Kidneys, central nervous system.
ACUTE EXPOSURE: Vomiting, diarrhea and ataxia may occur. Central nervous system effects, including slurred speech, blurred vision, dizziness, sensory loss, convulsions, and stupor have been reported. **CHRONIC EXPOSURE:** Lithium ion can cause kidney damage, gastrointestinal disturbances, fatigue, dehydration, weight loss, dermatological effects and thyroid disturbances.

Emergency and First Aid Procedures

INGESTION: If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting and call physician. Never give anything by mouth to an unconscious person. **EYES:** Flush with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. If irritation occurs and persists, obtain medical attention. **SKIN:** Flush with water, then wash with soap and water. **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. Avoid contact with acids.
	Stable	X		

Incompatibility (Materials to Avoid)	Strong acids.
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Hazardous Decomposition Products	Thermal decomposition may produce chlorine gas and/or hydrogen chloride gas.
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Hazardous Polymerization	Conditions to Avoid		Not applicable.
	May Occur	Will Not Occur	
		X	

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 disposal. Wash spill area with soap and water.
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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 service
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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 acids. Wash thoroughly after handling.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing.
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.			
Revision No. 6	Date 3/22/99	Approved Michael Raszeja	Chemical Safety Coordinator MR

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SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	LITHIUM CHLORIDE	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * 0 1 2 3 4
Chemical Synonyms	Lithium Chloride	
Formula	LiCl	
Unit Size	up to 2.5 Kg	
C.A.S. No.	7447-41-8	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Lithium Chloride	100%	See Section V.
CAUTION! HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION TO SKIN AND EYES. DELIQUESCENT.		

SECTION III PHYSICAL DATA

Melting Point (°F)	810°C (1490°F)	Specific Gravity (H ₂ O = 1)	2.165
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Soluble.		
Appearance & Odor	White crystals, granules or powder, 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.
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UNUSUAL FIRE AND EXPLOSION HAZARDS	Fire or excessive heat may produce hazardous decomposition products; can react with strong acids.
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D.O.T. NON-REGULATED.

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