



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. LL 225
Effective Date November 10, 1998

SECTION V HEALTH HAZARD DATA

LL 225

Threshold Limited Value RTECS No. QU9200000 Airborne Exposure Limits: None established by ACGIH (1992-93).

Effects of Overexposure **INHALATION:** Dust may cause irritation to the respiratory tract, with coughing and sore throat. **INGESTION:** Nitrates may cause dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, convulsions, and collapse. Symptoms similar to chronic ingestion may occur several hours later. **SKIN:** May cause irritation. **EYE CONTACT:** May cause irritation.

Emergency and First Aid Procedures **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** If swallowed, if conscious, give plenty of water to drink, induce vomiting and call physician immediately. Never give anything by mouth to an unconscious person. **SKIN EXPOSURE:** Remove contaminated clothing. Flush skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists. **EYE EXPOSURE:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Stable under ordinary conditions of use and storage. Excessive heat and temperature.
	Stable	X		

Incompatibility (Materials to Avoid) Oxidizable, organic and combustible materials.

Hazardous Decomposition Products Emits nitrogen oxides when heated to decomposition.

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 Eliminate all sources of ignition. Recover for use if not contaminated. Ventilate area of leak or spill. Clean-up personnel may require respiratory protection from dust. Sweep up and place in a suitable container for disposal. Wash spill area with 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.

Whatever cannot be saved for reclamation may be delivered to an approved waste disposal facility.

SECTION VIII SPECIAL PROTECTION INFORMATION

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

Ventilation	Local Exhaust	Yes (Recommended).	Special	No.
	Mechanical (General)	Yes.	Other	No.

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

Other Protective Equipment Goggles, proper gloves, lab coat, eye wash station, quick-drench facilities, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area away from combustible, organic and oxidizable materials. Wash thoroughly after handling.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals. Remove and wash contaminated clothing promptly. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Use with adequate ventilation.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 4	Date 11/10/98	Approved Michael Raszeja	Chemical Safety Coordinator MR
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards. Printed on recycled paper.

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	LITHIUM NITRATE	 <p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <table border="1"> <tr> <td>Health</td> <td>2</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>3</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	2	Fire	0	Reactivity	3
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	2																	
Fire	0																	
Reactivity	3																	
Chemical Synonyms	Lithium Nitrate																	
Formula	LiNO ₃																	
Unit Size	up to 2.5 Kg.																	
C.A.S. No.	7790-69-4																	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Lithium Nitrate	100%	None established.
DANGER! STRONG OXIDIZER! CONTACT WITH OTHER MATERIAL		
MAY CAUSE FIRE. HARMFUL IF SWALLOWED. CONTACT MAY CAUSE		
IRRITATION TO SKIN, EYES AND MUCOUS MEMBRANES.		

SECTION III PHYSICAL DATA

Melting Point (°F)	251°C (483°F)	Specific Gravity (H ₂ O = 1)	2.4 g/cc
Boiling Point (°F)	Decomposes at 600°C (1112°F)	Percent Volatile by Volume (%)	Not applicable.
Vapor Pressure (mm Hg)	Not applicable.	Evaporation Rate (Butyl Acetate =1)	Not applicable.
Vapor Density (Air=1)	Not applicable.		
Solubility in Water	43 % by wt. at 20°C (68°F).		
Appearance & Odor	White granules; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Not combustible.	Flammable Limits in Air % by Volume	NA	Lower	Upper
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Extinguisher Media Use any means suitable for extinguishing surrounding fire.

SPECIAL FIREFIGHTING PROCEDURES

Water spray may be used to keep fire exposed containers cool. In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus and full facepiece operated in the pressure demand or other positive pressure mode.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 140)

UNUSUAL FIRE AND EXPLOSION HAZARDS

FIRE: Not combustible, but substance is a strong oxidizer and its heat of reaction with oxidizable materials, reducing agents or combustibles may cause ignition. **EXPLOSION:** Contact with oxidizable substances may cause extremely violent combustion. Strong oxidants may explode when shocked, or if exposed to heat, flame, or friction. Also may act as initiation source for dust or vapor explosions.

D.O.T. LITHIUM NITRATE, 5.1, UN 2722, PG III

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