



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. LL 224
Effective Date March 22, 1999

SECTION V HEALTH HAZARD DATA

LL 224

Threshold Limited Value Lithium hydroxide is considered to be similar to Sodium and Potassium hydroxides in its irritant/corrosive property. OSHA and ACGIH list a ceiling TLV of 2 mg/m³ for these compounds.

Effects of Overexposure **TARGET ORGANS:** Lungs, respiratory tract.
This material is corrosive to skin, eyes (may cause blindness), nose, throat and respiratory tract. May cause severe tissue destruction. Do not inhale as dust or mists. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures **EYES:** Immediately flush with water for 15 minutes, lifting upper and lower eyelids occasionally. See physician immediately. **SKIN:** Immediately flush with plenty of water. If irritation occurs and persists, obtain medical attention. **INHALATION:** Remove to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** Rinse mouth with water. Drink two glasses of water to dilute stomach. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. See physician immediately.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Moisture, high humidity. Excessive heat.
	Stable	X		

Incompatibility (Materials to Avoid) Acids, aluminum, zinc.

Hazardous Decomposition Products Lithium oxide.

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 Provide adequate ventilation and protective equipment. Avoid dispersion of dust. Sweep up and place in a suitable container for disposal. Flush 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.

Dispose of in accordance with federal, state and local regulations.

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	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

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

Other Protective Equipment Goggles, lab coat, apron, ventilation hood, proper gloves, eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Keep container tightly closed. Store away from acids and water. Avoid breathing dust. Wash thoroughly after handling.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.

Do not get in eyes, on skin, or clothing. Avoid breathing dust. Remove and wash contaminated clothing.

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

Revision No. 4	Date 3/22/99	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 HYDROXIDE	 <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>3</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>2</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	3	Fire	0	Reactivity	2
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	3																	
Fire	0																	
Reactivity	2																	
Chemical Synonyms	Lithium Hydroxide, Monohydrate																	
Formula	LiOH·H ₂ O																	
Unit Size	up to 2.5 Kg.																	
C.A.S. No.	1310-66-3																	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Lithium Hydroxide, Monohydrate	> 99%	See Section V.
DANGER! CORROSIVE. POISON 		
MAY BE FATAL IF SWALLOWED. CAUSES SEVERE BURNS TO SKIN, EYES AND MUCOUS MEMBRANES.		

SECTION III PHYSICAL DATA

Melting Point (°F)	470°C (878°F)	Specific Gravity (H₂O = 1)	1.5 g/cc
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	10% by weight at 25°C (77°F)		
Appearance & Odor	White crystals, powder; no odor. Hygroscopic.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

SPECIAL FIREFIGHTING PROCEDURES

If involved in fire situation, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 154)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Not combustible but solid form in contact with water may release enough heat to ignite combustible material.

D.O.T. LITHIUM HYDROXIDE, MONOHYDRATE, 8, UN 2680, PG II

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