



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. LL 125
Effective Date October 19, 1998

SECTION V HEALTH HAZARD DATA

LL 125

Threshold Limited Value None established for Lead Nitrate. (ACGIH 1992-93). TWA for Lead [CAS No. 7439-92-1], inorganic dust and fumes, as Pb 0.15 mg/m³, PEL: 0.05 mg/m³ (TWA), STEL: 0.45 mg/m³ (TWA).

Effects of Overexposure **INHALATION AND INGESTION:** Acute effects are weakness, fatigue, sleep disturbance, headache, aching bones and muscles, abdominal pains, constipation and decreased appetite. Chronic effects include anemia, pallor, blue "lead line" on the gums, severe headache, convulsions, coma, delirium, kidney injury and possible death.

Emergency and First Aid Procedures **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting. Repeat until vomit fluid is clear. Call physician immediately. Never give anything by mouth to an unconscious person. **EYES:** Flush eyes thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention. **SKIN:** Flush thoroughly with water, then wash with soap and water.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature and heat.
	Stable	X		

Incompatibility (Materials to Avoid) Organic materials, reducing agents.

Hazardous Decomposition Products Thermal decomposition or burning may produce oxides of nitrogen (NO_x), oxides of lead.

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 Wear suitable protective clothing; avoid making dust, sweep up and place in a suitable container. Dispose of in an approved chemical landfill. Wash spill area well 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 service.

SECTION VIII SPECIAL PROTECTION INFORMATION

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

Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended	Other	Adequate to maintain below exposure limit.

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

Other Protective Equipment Smock, apron, eye wash station, goggles, faceshield, ventilation hood, proper gloves.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from combustible or reactive materials, fire hazards and out of direct sunlight. Keep from contact with clothing. Wash thoroughly after handling. Keep container tightly closed when not in use.

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

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

Revision No. 5	Date 10/19/98	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	LEAD NITRATE	 <p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</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>3</td> </tr> </table>	0	1	2	3	4	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	Health	3	Fire	0	Reactivity	3
0	1		2	3	4													
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
Health	3																	
Fire	0																	
Reactivity	3																	
Chemical Synonyms	Lead Nitrate																	
Formula	Pb(NO ₃) ₂																	
Unit Size	up to 2.5 Kg																	
C.A.S. No.	10099-74-8																	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Lead Nitrate	100%	See Section V.

DANGER! STRONG OXIDIZER! POISON  **MAY BE FATAL**

IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN.

CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes 470°C (878°F)	Specific Gravity (H₂O = 1)	4.53 at 20°C
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate	(=1) Non-volatile (NA).
Vapor Density (Air=1)	11.45		
Solubility in Water	50 grams per 100 g water		
Appearance & Odor	White or colorless translucent crystals; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).	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 full protective clothing.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 141)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Oxidizing material. In contact with easily oxidizable substances it may react rapidly enough to cause ignition, violent combustion or explosion. Increases the flammability of any combustible substances. Yields toxic gaseous oxides of nitrogen and lead when involved in fire.

D.O.T. LEAD NITRATE, 5.1, UN 1469, PG II

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