



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. LL 135  
Effective Date March 19, 1999

## SECTION V HEALTH HAZARD DATA

LL 135

### Threshold Limited Value

RTECS No. OG5425000 Toxicity data: lpr-rat LD50 630 mg/kg, orl-gpg LDLo 1000 mg/kg, lpr-gpg LD50 220 mg/kg.

### Effects of Overexposure

**TARGET ORGANS AFFECTED:** Kidneys, liver, central nervous system.  
**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. May cause irritation to skin and eyes.

### 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 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 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	Stable to 498°C (930°F). Do not heat in the presence of Aluminum, Sodium, Titanium, Zinc.
	Stable	X		

Incompatibility (Materials to Avoid)	Reacts violently with Hydrogen peroxide.
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Hazardous Decomposition Products	High temperatures or fire may produce lead oxide fume, vapor or dust.
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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	Wear suitable protective clothing; avoid making dust, sweep or vacuum material up and place in a suitable container. Dispose of in an approved chemical landfill. Wash spill area well with soap and water. Reclaim if possible.
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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.
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Smock, apron, eye wash station, goggles, ventilation hood, proper gloves.
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## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from acids and strong oxidizing agents. 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.  Do not breathe dust or fumes. Use with adequate ventilation. Remove and wash contaminated clothing promptly. Keep away from food, drink and animal foods. When using do not eat, drink or smoke.
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 5	Date 3/19/99	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	LEAD OXIDE, RED
Chemical Synonyms	Red Lead Oxide, Lead Tetraoxide
Formula	Pb <sub>3</sub> O <sub>4</sub>
Unit Size	up to 2.5 Kg.
C.A.S. No.	1314-41-6

0  
2  
1

CHEMTREC  
800-424-9300  
Day 716-226-6177

NFPA  
HAZARD RATING  
LEAST SLIGHT MODERATE  
0 1 2

Health 2  
Fire 0  
Reactivity 1

HMIS \*  
HIGH EXTREME  
3 4

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Lead Oxide	100%	0.15 mg/m <sup>3</sup> as Pb
WARNING! MAY BE HARMFUL IF SWALLOWED OR INHALED.		

## SECTION III PHYSICAL DATA

Melting Point (°F)	898°C (~1647°F)	Specific Gravity (H <sub>2</sub> O = 1)	8.80-9.20
Boiling Point (°F)	Decomposes @ 549°C (1022°F)	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	10 @ 1082°C (1985°F)	Evaporation Rate (≈1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	6.85 X 10 <sup>-7</sup>		
Appearance & Odor	Red or brown fine powder; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Not combustible.	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.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Fume, vapor and/or dust may occur and are considered toxic and respiratory irritants. May ignite organic materials when mixed. Dangerous when heated to decomposition, it emits highly toxic fumes of lead; can react with reducing material.

D.O.T. NON-REGULATED.

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