



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. LL 137  
Effective Date June 28, 1999

## SECTION V HEALTH HAZARD DATA

LL 137

### Threshold Limited Value

ACGIH PEL; TWA 0.15 mg/m<sup>3</sup> (as Pb).

### Effects of Overexposure

Toxic by inhalation or ingestion. Symptoms of lead poisoning include abdominal pain and spasms, nausea, vomiting and headache. Acute poisoning can lead to muscle weakness, "lead line" on the gums, metallic taste, loss of appetite, insomnia, dizziness, high levels of lead in blood and urine. Extreme cases can result in shock, coma and death. Less toxic than soluble lead compounds. Irritating to eyes. Reproductive hazards cited, not known to be carcinogenic.

### Emergency and First Aid Procedures

**EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get immediate medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **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 water or milk to drink. Induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature, heat, sparks, flame, ignition sources.
	Stable	X		

Incompatibility (Materials to Avoid)	Reducing agents or combustibles.
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Hazardous Decomposition Products	Thermal decomposition may yield oxygen gas and other oxides of lead.
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Hazardous Polymerization	Conditions to Avoid	Not applicable.
May Occur		
		X

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Wear protective safety equipment and use adequate ventilation. Avoid making dust. Sweep up and place in a suitable container for disposal.
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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.
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Dispose of in accordance with local, state and federal 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.		
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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	Lab coat, apron, eye wash station, proper gloves, ventilation hood.
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## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool place, dry place away from combustible material. 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. Avoid breathing dust. Use with adequate ventilation. 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. 3	Date 6/28/99	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 DIOXIDE	 <b>CHEMTREC</b> <b>800-424-9300</b> Day 716-226-6177  <b>NFPA HAZARD RATING</b> LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4  <b>HMIS *</b> 0 1 2 3 4
Chemical Synonyms	Lead (IV) Oxide, Lead Peroxide	
Formula	PbO <sub>2</sub>	
Unit Size	up to 2.5 Kg.	
C.A.S. No.	1309-60-0	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Lead Dioxide	97.0% min.	See Section V.

**DANGER! STRONG OXIDIZER! HARMFUL IF SWALLOWED**

**OR INHALED. MAY CAUSE IRRITATION.**

## SECTION III PHYSICAL DATA

Melting Point (°F)	290°C (554°F) decomposes	Specific Gravity (H <sub>2</sub> O = 1)	8.9
Boiling Point (°F)	Not applicable.	Percent Volatile by Volume (%)	0
Vapor Pressure (mm Hg)	Not applicable.	Evaporation Rate ( =1)	Not applicable.
Vapor Density (Air=1)	Not applicable.		
Solubility in Water	Insoluble.		
Appearance & Odor	Dark brown to black powder; odorless.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	NA	Lower	Upper
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Extinguisher Media	Use any media suitable for extinguishing supporting fire.
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### 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. 141)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Oxidizing material; will react with combustibles and reducing agents and may cause fire.

D.O.T. LEAD DIOXIDE, 5.1, UN 1872, PG III

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