



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. LL 150  
Effective Date March 22, 1999

## SECTION V HEALTH HAZARD DATA

LL 150

**Threshold Limited Value** (ACGIH 1992-93). TWA for Lead [CAS No. 7439-92-1], inorganic dust and fumes, as Pb 0.15 mg/m<sup>3</sup>.

**Effects of Overexposure** **TARGET ORGANS:** 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.

**Emergency and First Aid Procedures**  
**INHALATION:** Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. 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** Acids, excessive temperature.  
**Stable** X

**Incompatibility (Materials to Avoid)** Acids.

**Hazardous Decomposition Products** Contact with acid liberates hydrogen sulfide, a toxic gas. Thermal decomposition or burning emits toxic fumes of lead, hydrogen sulfide, sulfur dioxide.

**Hazardous Polymerization** **Conditions to Avoid**  
**May Occur** **Will Not Occur** Not applicable.  
X

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Recover for use if not contaminated. 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 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, wear a NIOSH/MSHA-approved dust mask or respirator.

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

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

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

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, dry place away from acid and fumes and fire hazards. 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.  
**NOTE:** Hydrogen Sulfide gas deadens the sense of smell. Do not depend on odor to detect presence of gas. Use with adequate ventilation. Avoid contact with eyes and skin. Remove and wash contaminated clothing.

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

**Revision** No. 6 **Date** 3/22/99 **Approved** Michael Raszeja **Chemical Safety Coordinator** MR

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## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

**Product** LEAD SULFIDE  
**Chemical Synonyms** Galena, Ore Of Lead  
**Formula** PbS  
**Unit Size** up to 2.5 Kg.  
**C.A.S. No.** 1314-87-0

**CHEMTREC**  
800-424-9300  
Day 716-226-6177  
**NFPA HAZARD RATING**  
LEAST SLIGHT MODERATE HIGH EXTREME  
0 1 2 3 4  
**Health** 3  
**Fire** 0  
**Reactivity** 1  
**HMIS \***

## SECTION II INGREDIENTS OF MIXTURES

**Principal Component(s)** % **TLV Units**  
Lead Sulfide 100% See Section V.  
**WARNING! HARMFUL IF SWALLOWED OR**  
**INHALED. CONTACT WITH ACID LIBERATES**  
**HYDROGEN SULFIDE A TOXIC GAS.**

## SECTION III PHYSICAL DATA

**Melting Point (°F)** 1114°C (2035°F) **Specific Gravity (H<sub>2</sub>O = 1)** 7.13-7.7  
**Boiling Point (°F)** 1281°C (2336°F) sublimes. **Percent Volatile by Volume (%)** Non-volatile (NA).  
**Vapor Pressure (mm Hg)** 1 mm at 852°C **Evaporation Rate** ( ) (≈1) Non-volatile (NA).  
**Vapor Density (Air=1)** Data not listed.  
**Solubility in Water** Insoluble.  
**Appearance & Odor** Black silvery, metallic crystals, black powder lump; no odor.

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

**Flash Point (Method Used)** Non-flammable (NA). **Flammable Limits in Air % by Volume** NA **Lower** **Upper**  
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**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.

## UNUSUAL FIRE AND EXPLOSION HAZARDS

When heated emits toxic fumes of lead. Contact with acid liberates hydrogen sulfide a toxic gas. Yields flammable hydrogen sulfide on contact with acids and sulfur dioxide when burning. Hydrogen sulfide and sulfur dioxide are both extremely toxic gases.

D.O.T. NON-REGULATED.

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