



MATERIAL SAFETY DATA SHEET  
COMPLIES WITH 29 CFR 1910.1200.  
OSHA HAZARD COMMUNICATION RULE

DATE OF LAST REVISION: 05-09-96

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## CHEMICAL IDENTITY

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LABEL IDENTITY	<b>LEAD</b>
CHEMICAL NAME/SYNONYMS	<b>LEAD</b>
FORMULA	<b>Pb</b>
CHEMICAL FAMILY	<b>METAL</b>
CALCULATED MOLECULAR WEIGHT	<b>207.19</b>
CAS REGISTRY NUMBER	<b>7439-92-1, LISTED IN THE TSCA INVENTORY</b>
HAZARDOUS INGREDIENTS	<b>LEAD</b>
%: <b>100</b>	TLV: <b>.15mg/m3</b> OSHA/PEL: <b>.05mg/m3</b>

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## PHYSICAL AND CHEMICAL PROPERTIES

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COLOR, FORM AND ODOR	<b>Soft silvery pieces, gray powder; no odor</b>
BOILING POINT	<b>1740</b>
DENSITY (gm/cc)	<b>11.3437</b>
VAPOR PRESSURE @ 20°	<b>NA</b>
% VOLATILE BY VOLUME (%)	<b>NA</b>
REACTION WITH WATER	<b>None</b>
EVAPORATION RATE (H20=1)	<b>NA</b>
SOLUBILITY IN WATER	<b>Insoluble</b>
MELTING POINT	<b>327.502</b>

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## FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT	<b>NA</b>
AUTOIGNITION TEMPERATURE (°C)	<b>NA</b>
FLAMMABILITY	<b>Slightly; as fine powder</b>
EXTINGUISHING MEDIA	<b>Agents for metal fires such as dry graphite, MET-L-X, or TEC</b>
SPECIAL FIRE FIGHTING PROCEDURES	<b>Wear full protective clothing including SCBA unit when fighting fires involving hazardous chemicals</b>
UNUSUAL FIRE & EXPLOSION HAZARDS	<b>Contamination</b>



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### HEALTH HAZARD INFORMATION

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TOXICITY DATA                      rat-ip LD100: **1000mg/kg**                      gpg-ip LDLO: **100mg/kg**

HMIS RATING:

HEALTH: **2\***    FLAMMABILITY: **0**    REACTIVITY: **0**                      PERSONAL PROTECTION: **E**

ROUTES OF ENTRY

INHALATION:                      **Yes**  
SKIN:                                      **Yes**  
INGESTION:                              **Yes**

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:                      **No data**

EFFECTS OF OVEREXPOSURE (acute and chronic):

INHALATION: **lead has no immediate effects on the lungs. It is a cumulative poison requiring repeated exposure to induce effects. Effects are described below.**  
DERMAL/EYE: **may cause irritation to the skin and eyes. May be absorbed by skin.**  
OTHER: **repeated inhalation or ingestion of this compound could cause nausea, vomiting, diarrhea, metallic taste, abdominal pain and tenderness, loss of appetite, headache, irritability and muscle pain. Continued exposure may lead to permanent neurological injury.**

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CARCINOGENICITY: **none**    NTP: **ND**    IARC MONOGRAPHS: **ND**    OSHA REGULATE: **ND**

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EMERGENCY FIRST AID PROCEDURES:

INGESTION: **Administer fluids and induce vomiting, seek medical attention**  
INHALATION: **Remove to fresh air, seek medical attention**  
SKIN CONTACT: **Wash affected area with soap and water**  
EYE CONTACT: **Flush eyes for at least 15 minutes with lukewarm water, if irritation persists seek medical attention.**

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### REACTIVITY DATA

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STABILITY	<b>Stable</b>
CONDITIONS CONTRIBUTING TO UNSTABILITY	<b>None</b>
INCOMPATIBILITY (MATERIALS TO AVOID)	<b>NH4, NO3, ClF3, H2O2, NaN3, Na2C2, Zr, oxidants</b>
HAZARDOUS DECOMPOSITION PRODUCTS	<b>Pb fumes</b>
HAZARDOUS POLYMERIZATION	<b>Will Not Occur</b>
CONDITIONS TO AVOID	<b>None</b>



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### SAFE HANDLING AND USE

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

**Wear protective clothing. Avoid raising dust by using dust suppresser or vacuuming spill with vacuum equipped with HEPA filter. Avoid dry sweeping.**

WASTE DISPOSAL METHOD:

**Dispose of in an approved hazardous waste facility. EPA number: D008**

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### SPECIAL PROTECTIVE INFORMATION

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RESPIRATORY PROTECTION	<b>High efficiency respirator approved for dust-mists-fumes</b>
LOCAL EXHAUST	<b>Maintain exposure below TLV</b>
MECHANICAL (general)	<b>Not recommended</b>
SPECIAL	<b>NA</b>
OTHER	<b>NA</b>
PROTECTIVE GLOVES	<b>Neoprene</b>
EYE PROTECTION	<b>Safety glasses</b>
OTHER PROTECTIVE EQUIPMENT	<b>Wear protective clothing to prevent contamination of skin and clothes</b>

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### SPECIAL PRECAUTIONS

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PRECAUTIONS TO BE TAKEN IN HANDLING/STORAGE:

**Wash thoroughly after handling and before eating, drinking or smoking. Store in cool, dry location in tightly closed container.**

TRANSPORTATION REQUIREMENTS	DOT CLASS:	<b>Not Classified</b>
	UN NUMBER:	<b>NC</b>
	IMCO CLASS:	<b>NC</b>
	OTHER:	

PRECAUTIONARY LABELING **NONE**

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**NA= NOT APPLICABLE**

**ND= NO DATA FOUND**