

## MATERIAL SAFETY DATA SHEET

### SECTION I - PRODUCT IDENTIFICATION

Trade Names and Synonyms	Lead, Pig Lead, Sheet Lead, Shield Lead, Lead Pipe
Chemical Names and Synonyms	Metallic Lead, Pb, Plumbum, Inorganic Lead
Chemical Family	Metal

### SECTION II - INGREDIENTS

Ingredient	C.A.S. Number	% W/W		Exposure Limit	LD50 oral, rat
		Min	Max		
Lead	7439-92-1	99.97	99.99	0.05 mg/m3	790 mg/kg

### SECTION III - PHYSICAL DATA

Boiling Point ( deg C )	1740	Spec Gravity	11.34
Vapour Pressure ( mm Hg )	1 mm at 970 deg C	% Volatile (by volume )	NP
Vapour Density ( Air=1 )	7.1	Evaporation Rate ( Ether = 1 )	NP
Solubility in Water	Nil	pH	NP
Appearance	Silver Grey Metal	Melting Point ( deg C )	328
Odour	None		
Form	Solid		

WHMIS Classification	D2-A	TDG Information
NP - Not Pertinent:		Shipping Name: NP
U - Unknown:		UN Number: NP
		Class / Division: NP
		Packing Group: NP

### SECTION IV - FIRE AND EXPLOSION HAZARDS

Flash Point ( deg C ) and Method	Flammable Limits in Air ( Vol % )	
NP	Upper:	NP
	Lower:	NP
Means of Extinction:	Class D - Dry Chemical, or Dry Sand	

**SECTION V - HEALTH HAZARD AND FIRST AID DATA**

Ingestion	EFFECTS: May cause headache, nausea, abdominal pains, fatigue, muscle/joint pain, kidney disjunction, wrist-drop.
	FIRST AID: Give water or milk. If conscious, induce vomiting. Report suspect cases to a physician for blood testing.
Eye Contact	EFFECTS: Molten lead could splash into eye.
	FIRST AID: Flush with cool water for 15 minutes and seek immediate medical aid.
Skin Contact	EFFECTS: May cause local irritation.
	FIRST AID: Remove contaminated clothing and wash affected area with soap and water.
Skin Absorption	NP
Inhalation	See "Ingestion", CNS damage (results in fatigue, tremors, hallucinations, convulsions, delirium), weight loss, sleep disturbance.
Effects of Acute Exposure	See " Ingestion Effects " and " Inhalation Effects " .
Effects of Chronic Exposure	Possible anemia, central nervous system and kidney damage.
Carcinogenicity:	IARC ( Yes )
Mutagenicity:	Yes
Teratogenicity:	Yes
Reproductive Effects:	Yes

**SECTION VI - REACTIVITY DATA**

Stability:	Stable - Yes	Conditions to Avoid:	Hydrogen peroxide, sodium, potassium.
Incompatible Materials	Water:	No	Acid: No
	Corrosive:	No	Alkali: No
	Other:	No	Oxidizers: Yes
			Reducers: No
Hazardous Decomposition Products:	Toxic lead oxide fumes will form at elevated temperature.		
Hazardous Polymerization:	May Occur -	NO	Conditions to Avoid: NP
	May not Occur -	X	

## SECTION V I I - PREVENTIVE MEASURES

Steps to be Taken in Case Material is Released or Spilled:		If solid, wear gloves, pick up and return to process. If dust, wear personal protection and use a vacuum. Return to process.	
Waste Disposal Method:		Return to manufacturer, scrap dealer, or secondary lead smelter.	
Respiratory Protection:		Wear approved fume / dust respirator if exposure limit at or near exposure limit. When levels are unknown or during firefighting wear an SCBA (Self Contained Breathing Apparatus).	
Engineering Controls	Local Exhaust:	Use to maintain ambient levels below permissible exposure limits (PEL).	Special: SCBA required when levels are unknown.
	Mechanical ( General ):		Other:
Protective Gloves:	Cotton or other cloth glove.	Eye Protection:	Safety glasses, goggles, face shield if molten.
Other Protective Equipment:		Heat resistant leggings and gloves if pouring molten lead.	

## SECTION V I I I - SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing:	Wash hands and arms well after handling and/or Eating or Smoking. Adequate ventilation and respiratory protection should be provided when handling dross from solder bath.
Special Precautions and Waste Disposal Methods:	Do not dispose of into municipal garbage. Do not dispose of into sewers or any body of water. Do not dispose of in a landfill site. Follow local or Federal guidelines for disposal. Take to a recycle or scrap dealer, or secondary smelter.

## SECTION IX - PREPARATION INFORMATION

Prepared By: Health, Safety and Environmental Department



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