

# Safety Data Sheet

## Lead Metal



### SECTION 1: IDENTIFICATION

**Product Name:** Lead Metal

**CAS No.:** 7439-92-1

**Chemical Formula:** Pb

**Other Names:** Corroding Grade Lead, Lead, Lead Block, Lead Copper Bearing, Lead Ingot, Pb, Plumbum, Pure Lead, Refined Lead, Sheet Lead, Soft Lead

**Intended Use / Restrictions on Use:**

For professional/industrial use only.

**Contact Information:**

Greenwich Metals, Inc.

165 West Putnam Ave.

Greenwich, CT 06830

Phone: 203-622-4848

**Emergency Contact:**

Chemtrec – call 1-800-424-9300

### SECTION 2: HAZARDS IDENTIFICATION

**Classification:**

Carcinogen 1B - H350

**Label Elements:**

Hazard Pictograms:



GHS08



GHS07

**Signal Word:**

Danger

**Hazard Statements:**

H350 – May cause cancer. H302 – Harmful if swallowed.

**Precautionary Statements:**

P201 – Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 – Do not breathe dust/fume/gas/mist/vapors/spray. P264 – Wash skin thoroughly after handling. P273 – Avoid release to the environment. P280 - Wear eye protection, protective clothing, protective gloves. P308 +P313 – If exposed or concerned: Get medical advice/attention. P405 – Store locked up. P501 – Dispose of contents/container in accordance with local, regional, national and international regulations.

**Other Hazards:**

Prevent particles from becoming airborne. Can cause thermal burns when molten.

**Unknown Acute Toxicity Statement:**

Not Applicable

### SECTION 3: COMPOSITION

**Name:** Lead Metal

**Synonyms:** Corroding Grade Lead, Lead, Lead Block, Lead Copper Bearing, Lead Ingot, Pb, Plumbum, Pure Lead, Refined Lead, Sheet Lead, Soft Lead

Chemical Name	CAS Number	% by Weight
Lead (Pb)	7439-92-1	>99

**Mixture:**

Not applicable

#### SECTION 4: FIRST AID MEASURES

**Required Treatment:**

After inhalation, move to fresh air and rest in a position comfortable for breathing.

After skin contact, wash skin thoroughly. If contact with molten metal, cool skin rapidly and seek medical assistance.

After eye contact, remove contact lenses if applicable and flush eyes with water for at least 15 minutes.

After ingestion, do not induce vomiting. Call poison control center or doctor.

**Important Symptoms & Effects, Acute & Delayed:**

Lead poisoning can occur through acute or chronic doses. Symptoms include headaches, abdominal pain, memory loss, kidney failure, anemia, change in skin tone, reproductive problems, weakness, pain, or tingling.

**Indication of Medical Attention:**

If any acute or chronic symptoms arise or if feeling unwell after exposure, seek medical advise.

#### SECTION 5: FIRE-FIGHTING MEASURES

**Extinguishing Techniques/Equipment:**

Use extinguishing media appropriate for surrounding media. Do not use water if metal is hot as it may increase fire intensity.

**Chemical Hazards from Fire:**

Lead Metal is not flammable or explosive. May react violently with water in molten state.

**Special Equipment and Precautions for Firefighters:**

Exercise caution. Under fire conditions, fumes will be present. If entering fire area, wear proper protective equipment including respiratory protection.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Emergency Procedures/Personal Protection:**

Avoid all contact with skin, eyes, or clothing. Avoid breathing fumes and dust.

Evacuate all unnecessary personnel.

**Protective Equipment:**

Use appropriate personal protection equipment (PPE), as listed in section 8.

**Methods of Containment & Cleanup:**

Allow metal to cool and solidify if molten. Collect solid metal and clean up spill site, disposing of waste properly.

## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling:

When molten, use safe furnace practices. When solid, practice good industrial hygiene and safety procedures. Wash exposed areas with soap and water.

### Precautions for Safe Storage:

Store in cool, dry and well ventilated location. Seal containers. Keep away from incompatible materials such as strong acids, strong bases, and strong oxidizers. If molten, keep away from water.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control Parameters:

USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.050 mg/m <sup>3</sup>
USA IDLH	US IDLH (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	50 µg/m <sup>3</sup>

### Engineering Controls:

Ensure adequate ventilation. Emergency eye wash stations and safety showers should be nearby any potential exposure. Ensure national/local regulations are observed.

### Personal Protective Equipment:

Protective goggles, gloves and clothing. If insufficient ventilation, wear respiratory protection.

**Materials for Protective Clothing:** Wear chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant gloves. If working with molten or hot material, wear thermally resistant gloves.

**Eye Protection:** Chemical goggles or safety glasses should be worn at all times. For furnace work, wear a face shield or safety glasses.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

**Thermal Hazard Protection:** For furnace work, fire retardant clothing, gloves, and safety shoes should be worn.

**Consumer Exposure Controls:** Do not eat, drink, or smoke during use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Solid (Metal)

**Color:** Blueish-grey. Silvery

**Taste:** N/A

**Molecular Weight:** 207.21 g/mol

**Odor:** N/A

**Odor Threshold:** N/A

**pH:** N/A

**Melting Point:** 327.43°C (621.4°F)

**Boiling Point:** 1740 °C (3164°F)

**Boiling Range:** N/A

**Flash Point:** N/A

**Evaporation Rate:** N/A

**Flammability:** N/A

**Upper/Lower Flammability Limits:** N/A

**Vapor Pressure:** 1 mm Hg @ 973°C (1783°F)

**Vapor Density:** N/A

**Specific Gravity (Relative Density):** 11.3

**Solubility:** Insoluble in water

**Partition Coefficient:** N/A

**Auto-ignition Temperature:** N/A

**Decomposition Temperature:** N/A

**Viscosity:** N/A

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** May react violently with water in molten form.

**Stability:** Stable under proper handling and storage conditions.

**Hazardous Reactions:** Thermal reactions generate lead fumes.

**Conditions to Avoid:** Avoid incompatible materials. Avoid Moisture in molten form.

**Incompatible Materials:** Strong acids, strong bases, and strong oxidizers. If molten, water.

**Hazardous Decomposition Products:** Melting produces lead fumes.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Routes of Exposure

Inhalation of dust, fumes. Skin contact through physical contact. Eye contact through physical contact or dust and fumes. Ingestion through contamination of skin/surfaces.

### Chronic and Acute Related Symptoms/Effects:

Inhalation of fumes or dust can cause respiratory irritation. Skin contact with molten metal can cause burns. Dust or fumes can cause eye irritation. Ingestion can cause harmful effects. Acute symptoms can include headaches, abdominal pain, memory loss, kidney failure, anemia, change in skin tone, reproductive problems, weakness, pain, or tingling. Chronic exposure may cause cancer or lead poisoning.

### Measures of Toxicology:

Acute Toxicity: Not Classified

Skin Corrosion/Irritation: Not Classified

Serious Eye Damage/ Irritation: Not Classified

Respiratory or Skin Sensitization: Not Classified

**Germ Cell Mutagenicity:** Not Classified

**Reproductive Toxicity:** Not Classified

### Carcinogenic Information:

May cause cancer.

IARC Group: 2A

National Toxicology Program (NTP) Status: Reasonably anticipated to be a human carcinogen.

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Toxic to aquatic life and terrestrial environments

**Persistence and Degradability:** N/A

**Bioaccumulative Potential:** Bioaccumulates in animals and plants

**Mobility in Soil:** Accumulates in Soil but not particularly mobile

### Other Adverse Effects:

Prevent entry to sewers and public waterways. Avoid release to the environment. Ensure accordance with national and local regulations.

## SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of waste in accordance with all local, regional, national, and international regulations.

## SECTION 14: TRANSPORTATION INFORMATION

UN Number: 3077

UN Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Lead)

Class: 9

Packing Group: III

Environmental Hazards: Do not release to waterways.

Transportation in Bulk: N/A

Special Precautions: Wash skin after contact

#### **SECTION 15: REGULATORY INFORMATION**

##### **US Federal Regulations:**

SARA Section 311/312 Hazard Classes – Delayed (chronic) Health Hazard

SARA Section 313 Emissions Reporting – 0.1%

##### **US State Regulations:**

California – Prop. 65 – Carcinogens List

California – Prop. 65 – Developmental Toxicity

California – Prop. 65 – Reproductive Toxicity Male/Female

Massachusetts – Right To Know List

Pennsylvania – Right To Know List (Environmental Hazard)

Pennsylvania – Right To Know List

New Jersey – Right To Know List (Hazardous Substance)

#### **SECTION 16: OTHER INFORMATION**

Date of Preparation: 05/20/15

Date of Revision: 01/04/16

Prepared in accordance with OSHA HCS 29 CFR 1910.1200.

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