

# MSDS – Hard Lead

## A. Product/Company Name

**Manufacturers Name:** GNB Technologies, Inc.

**Issue Date:** 07/94

**Address:** 375 Northridge Road  
Atlanta, GA 30350

**Revision Date:** 02/99

**Telephone:** (706)551-0300

**Trade Name:** Lead    **Formula:** Pb    **Molecular Wt.** 207.6    **Intended Use:** Industrial

**Synonyms:** Hard Lead, Antimonial Lead, Type Metal, Battery Lead, Shot Metal, Arsenical Lead

## B. Hazardous Ingredients

Material components:	Weight %	C.A.S. #	TLV
Lead	80-99	7439-92-1	50 µg/M <sup>3</sup>
Antimony	0-10	7440-36-0	500 µg/M <sup>3</sup>
Arsenic	0-5	7440-38-2	10 µg/M <sup>3</sup>
Tin	0-10	7440-31-5	2000 µg/M <sup>3</sup>
Copper	0-0.5	7440-50-8	100 µg/M <sup>3</sup>
Selenium	0-0.05	7782-49-2	200 µg/M <sup>3</sup>
Silver	0-0.5	7740-22-4	10 µg/M <sup>3</sup>

## C. Physical Data

**Boiling Point @ 760 mm Hg:** 2700°F  
**Specific Gravity (H<sub>2</sub>O = 1):** 9.6 –11.34  
**Vapor Density (Air = 1):** Not Applicable  
**Volatiles By Volume:** Not Applicable

**Melting Point:** 486-621°F  
**Vapor Pressure:** Not Applicable  
**Solubility in H<sub>2</sub>O (% by Wt.):** Insoluble  
**Evaporation Rate:** Not Applicable

**Appearance and Odor:** Silver Grayish Metal – No odor.

## D. First Aid Measures

**Inhalation:** Remove from exposure. Get medical attention if experiencing effects of overexposure.

**Skin:** Wash with soap and water thoroughly.

**Eyes:** Flush with continuously quantities of water. Get medical attention.

**ingestion:** Get immediate medical attention.

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## E. Hazards Identification

**Primary Route of Entry:** Ingestion

### **Acute Exposure (Symptoms and Effects)**

If left untreated: weakness, vomiting, insomnia, loss of appetite, loss of coordination, convulsions, stupor, and possible coma may develop.

### **Chronic Exposure (Symptoms and Effects)**

If left untreated: weakness, insomnia, hypertension, slight irritation to the skin and eyes, metallic taste in the mouth, anemia, constipation, headache, muscle and joint pains, neuromuscular dysfunction, possible paralysis, and encephalopathy.

## F. Fire Fighting Measures

**Flash Point:** Not Applicable      **Flammable Limits in Air (%by Vol.)** Not Applicable

**Auto Ignition Temperature:** Not Applicable

**Fire Extinguishing Media:** Dry Chemical or Carbon Dioxide

### **Special Fire Fighting Procedures:**

use full body protective clothing and full face piece self contained breathing apparatus in positive pressure mode.

### **Unusual Fire And Explosion Hazards:**

Molten metals produce fume, vapor and/or dust that may be toxic and/or respiratory irritants. The dust from this product can react vigorously with strong oxidizing agents.

## G. Stability/Reactivity

**Stability:** Stable      **Conditions to Avoid:** None

**Hazardous Polymerization:** Not Applicable

### **Incompatible Materials to Avoid**

Strong oxidizers and this product may react violently and produce hydrogen gas.

### **Hazardous Decomposition Products**

High temperatures may produce heavy metal fume, vapor and/or dust.

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## H. Release Procedures

### Spills or Leaks

Dust material should be vacuumed or wet swept where vacuuming is not feasible. Do not dry sweep this product. Particulate matter should be stored in dry containers for later disposal. Never use compressed air or dry sweeping as a means of cleaning.

### Disposal Methods

This material is considered to be toxic and hazardous. Dispose in accordance with all federal, state and local regulations.

## I. Special Protection Information

### Ventilation Requirements

Ventilation, as described in the Industrial Ventilation Manual, produced by the Conference of Governmental Industrial Hygienist, shall be provided in the areas where exposure is above the permissible exposure limit or the threshold limit values as specified by OSHA or other federal, state or local regulations.

### Respiratory Protection

Where exposure is above the permissible exposure limit or the threshold limit values, the minimum respiratory protection recommended is a negative pressure respirator with cartridges that are NIOSH/MSHA approved against dust, mist and fumes having a TWA of 0.05 mg/M<sup>3</sup>

### Eyes, Face and Hands

Safety glasses or goggles should be worn when using this product to prevent particles of dust from getting into the eyes. Whenever working with molten metal, a face shield is recommended. Gloves should be worn when handling this product.

### Other Clothing and Equipment

Coveralls or other full body clothing shall be worn during the use of this product. All clothing shall be laundered after use and the water disposed of in accordance with all federal, state and local regulations. Hard hats, safety boots, and other safety equipment should be worn as is appropriate for the industrial environment. Personal clothing should never be worn when using this product.

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### J. Special Precautions

There are two major means of heavy metal absorption; namely, inhalation and ingestion. Most inhalation problems can be prevented with adequate use of aforementioned ventilation and respiratory information. Always exercise normal, good personal hygiene prior to eating or smoking by thoroughly washing your hands, face, neck and arms.

Work clothes and equipment should remain in designated areas and never be taken home or laundered with personal clothing. Launder contaminated clothing prior to use.

This product is intended for industrial use and should be isolated from children and their environment.

### K. Storage and Handling

Store in a dry area where accidental contact with acids or strong oxidizers is not possible.

Avoid skin contact.