

# MATERIAL SAFETY DATA SHEET

## SREEINIVASA INDUSTRIES

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PRODUCT NAME : LEAD ANODE

### Product details:

**Common Name:** Anode Lead

**Trade Name:** Anode Lead

**Chemical Family:** Non Ferrous Metals

**Material Use:** Industrial Applications

### Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limit	
Lead (Pb)	7439-92-1	90 - 99	0.05 mg/m <sup>3</sup>	790 mg/kg
Tin (Sn)	7440-31-5	1	2.00 mg/m <sup>3</sup>	72 mg/kg

### Physical Information

**Boiling Point (°C)** Pb1740

**Specific Gravity** 10.3 –11.3

**Vapour Pressure (mm Hg)** 1mm @975 oC %

**Volatile (By Volume)** Not Pertinent

**Vapour Density (Air=1)** Not Pertinent

**Evaporation Rate (Ether=1)** Not Pertinent

**Solubility In Water** Nil

**pH** Not Pertinent

**Appearance** Metallic Grey

**Melting Point (oC)** 252 - 327

**Odour** None  
**Form** Bar, Ingot,

## **Fire and Explosion Hazards**

**Flammable Limits in Air (Vol %)** **Upper:** Not Pertinent  
**Lower:** Not Pertinent  
**Means of Extinction** Class D – Dry Chemical or Sand

## **Health Hazard and First Aid Data**

### **Effects:**

May cause headache, nausea, abdominal pains, fatigue, muscle/joint pain, kidney disjunction, wrist-  
**Ingestion** drop.

### **First Aid:**

Give water or milk. If conscious, induce vomiting.  
Seek medical assistance for possible blood poisoning.

**Eye Contact Effects:** Molten metal may splash.

**First Aid:** Flush with large amounts of water.

**Effects:** May cause local irritation.

### **Skin Contact**

**First Aid:** Wash skin with soap and water. Remove clothing and laundry.

**Skin Absorption** Not Pertinent

**Inhalation** See “Ingestion”, CNS damage (results in fatigue, tremours, hallucinations, convulsions, delirium), weight loss, sleep disturbance.

### **Effects of Acute**

**Exposure** See “Ingestion Effect” and “Inhalation Effects”.

### **Effects of Chronic**

**Exposure** Possible anemia, central nervous systems and kidney damage.

**Carcinogenicity** IARC (Yes)

**Mutagenicity** No

**Teratogenicity** Yes

**Reproductive Effects** Yes

## Reactivity Data

**Stability:** Stable - Yes

**Conditions to Avoid:** Not Pertinent

**Water :**No

**Acid:** No

**Oxidizers:** Yes

**Corrosive:**No

**Alkali:** No

**Reducers :**No

**Incompatible**

**Materials**

**Other :**No

## Preventative Measures

**Steps to be taken in case Material is Released or Spilled:** If spill of dust, use cleanup methods which avoid dust generation. Use water and wet sweep or vacuum.

**Waste Disposal Method:** Dispose of in accordance with appropriate federal and local regulations.

**Respiratory Protection:** When engineering controls are not feasible to control overexposure, use appropriate **NIOSH** approved respirators.

**Local Exhaust** Essential to keep worker exposure within allowable limits during welding or grinding.

**Mechanical (General)** Not Applicable

**Special** Not Applicable **Other** Not Applicable

**Engineering Controls**

Not Applicable

**Protective Gloves:** As needed to protect against physical hazards.

**Eye Protection:** Safety glasses, goggles or face shield if molten.

**Other Protective Equipment:** Heat resistant leggings and gloves if pouring molten metal.

## **Special Precautions**

**Precautions to be taken in Handling and Storing:** The scrap metal itself presents no health hazard unless it is welded, burned, ground or cut. Possible fumes may be generated. Should have complete evaluation done. Wash hands and arms after handling.

**Special Precautions and Waste Disposal Methods:** Return to manufacturer, scrap dealer, or dispose of in accordance to local & federal regulations.