Safety Data Sheet

PRODUCT: Lead Tin Alloy Powder

Section 1 - Chemical Product and Company Identification

Product Name: Lead Powder

Technical Name: Lead Tin Alloy Powder

Company Identification:

Metrochem Metal Powders PVt Ltd,

G-1/79-80, RIICO, Deoli (Tonk-Raj.)-304804

Emergency Contact: +91-96600-86529

Recommended use: preparation of lead Vinyl fabric, Solder Paste

Section 2 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: bluish white, silvery gray. **Caution!** Causes eye and skin irritation. May be absorbed through intact skin. May cause respiratory and digestive tract irritation. May cause central nervous system depression. May cause kidney damage. Can cause adverse reproductive effects. May cause fetal effects. Dangerous for the environment.

Target Organs: Kidneys, central nervous system, blood forming organs.

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation. May be absorbed through the skin.

Ingestion: Causes gastrointestinal irritation with nausea, vomiting and diarrhea. Ingestion of lead compounds can cause toxic effects in the blood-forming organs, kidneys and central nervous system. Symptoms of lead poisoning or plumbism include weakness, weight loss, lassitude, insomnia, and hypotension. It also includes constipation, anorexia, abdominal discomfort and colic.

Inhalation: May cause respiratory tract irritation. Inhalation of fumes may cause metal fume fever, which is characterized by flu-like symptoms with metallic taste, fever, chills, cough, weakness, chest pain, muscle pain and increased white blood cell count. May cause effects similar to those described for ingestion.

Chronic: Chronic exposure may cause reproductive disorders and teratogenic effects. Chronic exposure to lead may result in plumbism which is characterized by lead line in gum, headache, muscle weakness, mental changes.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
7439-92-1	LEAD	70
7440-31-5	TIN	30

Hazard Symbols: **T**

Risk Phrases: 20/22 33 61 62

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Discard contaminated clothing in a manner which limits further exposure.

Ingestion: Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Antidote: The use of Dimercaprol or BAL (British Anti-Lewisite) as a chelating agent should be determined by qualified medical personnel. The use of d-Penicillamine as a chelating agent should be determined by qualified medical personnel. The use of Calcium disodium EDTA as a chelating agent should be determined by qualified medical personnel.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use extinguishing media appropriate to the surrounding fire. Substance is noncombustible. Dust can be an explosion hazard when exposed to heat or flame.

Extinguishing Media: For small fires, use water spray, dry chemical, carbon dioxide or chemical foam. Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Wash clothing before reuse.

Storage: Store in a cool, dry place. Keep from contact with oxidizing materials. Keep containers tightly closed.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. **Exposure Limits**

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
LEAD TIN ALLOY POWDER	0.05 mg/m3 TWA	as Pb: 0.100 mg/m3 TWA; see Appendix C for supplementary exposure limits as Pb: 100 mg/m3 IDLH	as Pb: 50 ug/m3 TWA PEL; 30 ug/m3 action level; Poison (se

OSHA Vacated PELs: LEAD: No OSHA Vacated PELs are listed for this chemical. **Personal Protective Equipment**

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves and clothing to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to prevent skin exposure. **Respirators:** Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Appearance: Dark grey, black

Odor: none reported **pH:** Not applicable.

Vapor Pressure: 1.3 mm Hg @ 970C

Vapor Density: Not available. **Evaporation Rate:** Not applicable.

Viscosity: Not applicable. **Boiling Point:** 1740 deg C

Freezing/Melting Point:240 deg C

Autoignition Temperature: Not available.

Flash Point: Not available.

Decomposition Temperature: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 0; Reactivity: 0

Explosion Limits, Lower: Not available.

Upper: Not available.

Solubility: Insoluble in water. **Specific Gravity/Density:**11.3

Molecular Formula: Molecular Weight:

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. **Conditions to Avoid:** Dust generation, excess heat, strong oxidants. **Incompatibilities with Other Materials:** Strong oxidizing agents.

Hazardous Decomposition Products: Lead/lead oxides. **Hazardous Polymerization:** Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 7439-92-1: OF7525000

LD50/LC50: Not available.

Carcinogenicity: CAS# 7439-92-1:

ACGIH: A3 - Animal Carcinogen

California: carcinogen; initial date 10/1/92

OSHA: Possible Select carcinogen **IARC:** Group 2B carcinogen

Epidemiology: There are several reports that certain lead compounds admini stered to animals in high doses are carcinogenic, primarily producing renal tumors. Salts demonstrating carcinogenic ity in animals are usually soluble salts. Epidemiologica I studies have not shown a relationship between lead exposur e and the incidence of cancer in lead workers. However, one study of lead-exposed workers demonstrated a statistically significant elevation in the standardized mor tality ratio for gastric and lung cancer in battery plan t workers only.

Teratogenicity: Lead penetrates the placental barrier and has caused fetal abnormalities in animals. Excesssive exposure to lead during pregnancy has caused neurological disorders in infants.

Reproductive Effects: Reproductive effects from lead have been documented in animals and human beings of both sexes. In battery workmen with a mean exposure of 8.5 years to lead, there was an increased frequency of sperm abnormalities as compared with a control group.

Neurotoxicity: Subtle neurologic effects have been demonstrated with relati vely low blood levels of lead. The performance of lead wor kers on various neurophysiological tests was mildly redu ced when compared with a control group. Anxiety, depre ssion, poor concentration, forgetfulness, mild reductions in motor and sensory nerve conduction velociities have been documented in lead-exposed workers.

Mutagenicity: No data available.

Other Studies: No data available.

Section 12 - Ecological Information

Ecotoxicity: No data available. LC50 Japanese quail (Coturnix japonica), males or females, 14 days old, oral (5-day adlibitum in diet) >5,000 ppm; at 1000, 2236 & 5000 onset of toxic signs began at 7, 7 & 7 days and remissed at 11, 11 & 12 days, respectively, no mortality was observed; control references were dieldrin & dicrotophos; corn oil diluent was added to diet at ratio of 2:98 by wt; (extreme concentrations: 1,000-5,000 ppm) /Lead metal, 100%.

Environmental: Terrestrial: Extremely stable metal. While some corrosion may be expected in soil, generally an inert coat of an insoluble salt will form and limit further corrosion. Aquatic: Lead will simply sink into the sediment. Atmospheric: Will be in particulate matter and be subject to washout and gravitational settling. Will biodegrade and bioconcentrate.

Physical: No information available.

Other: For more information, see "HANDBOOK OF ENVIRONMENTAL FATE AND

EXPOSURE DATA."

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed. RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	IATA	RID/ADR	IMO	Canada TDG
Shipping Name:	Lead Metal Powder/ Lead tin alloy Powder				No information available.
Hazard Class:	Class 9				
UN Number:	3077				
Packing Group:	111				

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 7439-92-1 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

CAS# 7439-92-1: 6a/12b

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

CAS# 7439-92-1: final RQ = 10 pounds (4.54 kg) (no reporting of releases of this hazardous

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 7439-92-1: acute, chronic.

Section 313

This material contains LEAD (CAS# 7439-92-1, 99%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. CAS# 7439-92-1 is listed as a Priority Pollutant under the Clean Water Act. CAS# 7439-92-1 is listed as a Toxic Pollutant under the Clean Water Act.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

CAS# 7439-92-1 can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

The following statement(s) is(are) made in order to comply with the California Safe Drinking Water Act: WARNING: This product contains LEAD, a chemical known to the state of California to cause cancer. WARNING: This product contains LEAD, a chemical known to the state of California to cause birth defects or other reproductive harm. California No Significant Risk Level: CAS# 7439-92-1:

NOEL = 0.5 ug/day **European/International Regulations European Labeling in Accordance with EC Directives Hazard Symbols:**

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Risk Phrases:

R 20/22 Harmful by inhalation and if swallowed.

R 33 Danger of cumulative effects.

R 61 May cause harm to the unborn child.

R 62 Possible risk of impaired fertility.

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 7439-92-1: No information available.

Canada

CAS# 7439-92-1 is listed on Canada's DSL List. CAS# 7439-92-1 is listed on Canada's DSL List.

This product has a WHMIS classification of D2A.

CAS# 7439-92-1 is listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 7439-92-1: OEL-FRANCE:TWA 150 mg/m3 OEL-GERMANY:TWA 0.1 mg/m3 OEL-POLAND:TWA 0.05 mg/m3

Section 16 - Additional Information

SDS Creation Date: 01/04/2012 **Revision #2 Date:** 01/05/2018

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any

