

SAFETY DATA SHEET
LOW LEAD PURE TIN ANODE BUTTON / BALL
1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: LOW LEAD PURE TIN ANODE BUTTON / BALL
 PART NO.: 29-0808A
 SUPPLIER: SCHLOETTER COMPANY LTD
 NEW ROAD
 PERSHORE
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2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	EINECS No.	CAS NO.	WEIGHT %	SYMBOL
Sn (Tin)		7440-31-5	99.948	
Pb (Lead)		7439-92-1	0.01	

3 APPLICATION

➤ For plating, anodizing, galvanizing purposes.

4 HAZARDS IDENTIFICATION

- Swallowed : Unlikely unless in the form of dust or fume. Lead is absorbed in small amounts from the gastrointestinal tract, which it may enter through the swallowing of inhaled particles or via smoking tobacco, eating food, etc., and may result in symptoms of poisoning (see "Inhaled" below).
- Eye : Unlikely route of entry considering the physical form of the product. However, entry of lead particles may cause inflammation and physical damage, and in severe cases, may cause cataracts. Lead dust and fume are irritating to the eyes.
- Skin : Contact with skin may result in irritation. Inorganic lead is not significantly absorbed through the skin.

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- Inhaled : Unlikely due to physical form, however, dust or fumes are readily absorbed from the respiratory tract and may result in symptoms of poisoning. The primary route of entry is via inhalation of the dust or fume. Lead is retained in the body (primarily in bones and other hard tissues) for a long period of time, hence is a cumulative poison. The lowest concentration of lead-in-air reported to produce any toxic affecting humans (TCL₀) is 10 µg/m³. early symptoms of poisoning include fatigue, headache, sleep disturbances, constipation, aching bones and muscles, gastrointestinal tract disturbances and reduced appetite. Later, anaemia, lead line on the gums, and lead colic may occur. These symptoms may often be precipitated by alcohol or exercise. Large doses affect the central nervous system (CNS), causing severe headaches, convulsions, coma and possible death.
- Chronic : Kidney damage occurs on long term exposure through inhalation or ingestion of the dust or fume. High concentrations of metallic dust in factories have been reported to affect peripheral airway function and cause lung fibrosis and emphysema. These problems would only be expected to occur in the industrial use of the material.

5 FIRST AID MEASURES

- Swallowed : Give plenty of water to drink; seek medical advice if a large object has been swallowed.
- Eye : Irrigate the affected eye(s) with water and seek medical advice to remove the foreign body if necessary.
- Skin : If molten material comes in contact with the skin and adheres: cool quickly with running water – do not attempt to remove. For metal dust contamination, wash the affected area with soap and water. If irritation occurs, seek medical advice.
- Inhaled : If fume or dust is inhaled, remove victim to fresh air taking care not to become a casualty. Lay the patient down and keep warm and rested. Seek medical attention.
- First aid Facilities : No specific first aid facilities are required.

6 FIRE FIGHTING MEASURES

Extinguishing Media : NA

Fire Fighting Instruction: Wear self-contained breathing apparatus and protective clothing.

Special Hazards : Lead Fumes.





7 ACCIDENTAL RELEASE MEASURES

Spill or Leak : Avoid breathing dust and fume. Allow spill to solidify and cool. Collect and place in sealed drums.

8.1 HANDLING

- Fume mask required for respiratory protection.
- Wear protective gloves.

8.2 STORAGE

- Store in non-dusty area, away from oxidizing agents and acids.
- Avoid extreme heat.
- Not to be loaded or stored with foodstuffs.
- Avoid breathing dust and fume.
- Allow spill to solidify and cool.
- Place used material in sealable, labeled containers.

9.1 PERSONAL PROTECTION

- Wear approved dust/fume mask.
- Wear protective goggles.
- Use protective gloves when handling.
- Provide sufficient exhaust/ventilation to maintain exposure below permissible air concentrations.

9.2 EXPOSURE LIMITS AND CONTROL

- Sn 2ng/cu m ACGIH.
- Pb 0.01 mg/cu m ACGIH OSHA TWA.
- State regulations on the use of inorganic lead should be consulted and applied.

9.3 ENGINEERING MEASURES

- Avoid heating to greater than 500°C, and avoid grinding and abrasive cleaning of the product.



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10 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Shiny silvery color, casted as ball form with diameter of 15 mm.
Odour	: None.
Solubility	: Insoluble in water; Soluble in strong acid.
Boiling Point	: Not applicable.
Melting Point	: 232°C
Vapour Pressure (mm of Hg at 25°C)	: 730°C is 1.48×10^6 mm Hg
Percentage Volatiles	: Not applicable.
Evaporation Rate	: Not applicable.
Vapour Density (Air=1)	: Not defined.
Specific Gravity	: 7.28 g/cm ³
Flash Point	: Not defined.
Autoignition Temperature	: Not defined.
Flammable Limit (%) and other properties if applicable	: Non-combustible and non-flammable in bulk form. Lead dust is flammable and moderately explosive when exposed to heat or flame.

11 STABILITY AND REACTIVITY

Conditions to avoid	: Not applicable.
Incompatibles	: Strong acids, reducing agents, halogens and oxidizing materials.
Decomposition products	: Lead oxides may be evolved at temperatures greater than 482°C (900°F).
Hazardous polymerization	: Will not occur.

12 TOXICOLOGICAL INFORMATION

Toxicity data	: TLV. Sn 2 mg/cu m ACGIH. Pb 0.05 mg/cu m ACGIH OSHA TWA.
Carcinogenicity	: None of the metal elements of this product are confirmed as human carcinogens at this time by NTP, IARC or OSHA. IARC classifies lead and some lead compounds as 2B carcinogens (possibly carcinogenic to humans).
Reproductive effect	: Women of child bearing age should avoid exposure to lead and its inorganic compounds due to post-natal effects. Lead can cause potential injury to a developing fetus and possible effects on reproduction.
Effects of overexposure	: Overexposure to high levels of airborne or ingested lead may cause damage to blood-forming, nervous, reproductive, intestinal and urinary systems.
Chronic effects	: Exposure to high levels of lead may produce symptoms of anemia, insomnia, weakness, constipation, nausea and abdominal pain.

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- Target organs : Blood-forming organs, kidneys, nervous and possibly reproductive systems.
- Medical conditions generally aggravated by exposure : Always wash hands before smoking, eating, drinking or using the toilet. Showering at the end of the working day is recommended.

13 ECOLOGICAL INFORMATION

- Mobility & Bioaccumulation: Lead is relatively mobile in the aquatic organisms. It is taken from the soil by plants and can be concentrated in the food chain.
- Biodegradability : Readily found in the earth.
- Aquatic Toxicity : Has no effect on the environment unless in finely divided form of lead. Relatively mobile in aquatic organisms. Tin and its components are not indicated in US, EPA Toxic Substances Control Act "Chemical Substances Inventory".

14 DISPOSAL

- Disposal should be in accordance with local, state or national legislation.
- Do not discharge into drains or the environment; dispose to an authorized waste collection point.

15 TRANSPORT INFORMATION

- UN
- UN No. :
Packing Group :
- Road/Rail (ADR/rid)
- ADR UN No. : ADR Hazard Class :
ADR Item No. : ADR/RID No. :
Placard :
- Sea (IMDG)
- IMDG UN No. : IMDG Hazard Class :
IMDG Page No. : IMDG Pack Group :
IMDG EmS : IMDG MFAG1 :
- Air (ICAO/IATA)
- ICAO UN No. : ICAO Hazard Class :
ICAO Packing Group :

No specific instructions. Read all container labeling. Not to be loaded or stored with foodstuffs.

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16 REGULATORY INFORMATION

- ### For an overview of the effects of lead exposure, consult the local Department of Occupational Safety and Health.
 - ### Hazardous according to current CHIP Regulations.
 - ### This Safety Data Sheet is provided in compliance with the Health and Safety at Work Act.
 - ### This Safety Data Sheet does not constitute a workplace risk assessment.
 - ### The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties.
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17 OTHER INFORMATION

