



Electroloy Metal Pte Ltd<sup>197700989H</sup>

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## MATERIAL SAFETY DATA SHEET

### SECTION 1 : CHEMICAL PRODUCT & COMPANY IDENTIFICATION

#### 1.1 Product Details:

Product Name : Pure Tin Anodes - Sn99.9%  
(Inclusive of ball, button and other shape of anodes)

Product Code : LF-361A

Product Use : Solder for electrical or electronic application

#### 1.2 Company's Identification:

Supplier's Name : **Electroloy Metal Pte Ltd.**

Address : 67, Tuas Ave 1,  
Singapore 639509

Telephone : +65 6491 2663

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### SECTION 2 : HAZARD IDENTIFICATION

#### EMERGENCY OVERVIEW

Chemical fumes during process are irritating to eyes and may cause headache and respiratory system irritation.

INHALATION : Inhalation of chemical fumes during process may cause irritation to respiratory tract and may lead to central nervous system effects (drowsiness,dizziness, headaches, nausea, vomiting, joint and muscle pain).

SKIN CONTACT : May cause irritation of the skin.

EYE CONTACT : Chemical fumes during process may cause irritation to the eyes.

INGESTION : May be harmful if swallowed. May cause vomiting,nausea, diarrhea

### SECTION 3 : COMPOSITION / INFORMATION ON MATERIAL

Chemical Name	C.A.S Number	% by weight	OSHA PEL	ACGIH TLV
Tin	7440-31-5	99.9	2	2

#### NOTES :-

C.A.S : Chemical Abstract Service

OSHA : Occupational Safety and Health Administration

PEL : Permissible Exposure Limit

ACGIH : American Conference of Government Industrial Hygienists

TLV : Threshold Limit Value

### SECTION 4 : FIRST AID MEASURES

INHALATION	: Remove to fresh air. Restore breathing if necessary. If irritation persist, consult a physician.
SKIN CONTACT	: Wash thoroughly with soap and warm water.
EYE CONTACT	: Flush eyes with plenty of water immediately for at least 15 minutes. Seek medical attention.
INGESTION	: Seek immediate medical attention. Never give anything by mouth to an unconscious person.

### SECTION 5 : FIRE-FIGHTING MEASURES

Flash point	: Non-flammable.
Auto-ignition Temperature	: Massive metal is non-flammable. Brazing flames can ignite combustibles. Finely divided dust may form explosive mixtures with air.
Extinguishing Media	: Carbon Dioxide, dry chemical. (Note : Do not use water on molten metal).
Fire Fighting Instruction	: Wear self-contained breathing apparatus and full protective clothing.

### SECTION 6 : ACCIDENTAL RELEASE MEASURES

Leak / Spill	: Place into properly labeled waste container and sent for disposal according to federal, state and local regulations
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### SECTION 7 : HANDLING AND STORAGE

Handling	: This product is for industrial use only. Wash hands after use. Avoid contact with eyes, skin and clothing. Avoid inhalation of chemical fumes during process. Do not take internally. Keep out of reach of children. Observe good industrial practices.
Storage	: Store in a well-ventilated, dry area in ambient temperature.

## SECTION 8 : EXPOSURE CONTROL AND PERSONAL PROTECTION

Engineering Controls	: Use general or local ventilation to keep exposure level below exposure limit.
Respiratory	: Operator should be protected from chemical fumes during process.
Eye	: Wear approved safety glasses or goggles.
Skin	: Wear chemically impervious gloves.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Silver-white Lustrous Metal
Odor	: No odor
Solubility in Water	: Insoluble
Solidus Temperature (°C)	: 232 °C
Liquidus Temperature (°C)	: 232 °C
Vapor Pressure (mm of Hg at 20 °C)	: Not Volatile
Vapor Density (air = 1)	: Not Volatile
Percentage Volatiles (by Volume)	: NA
Volatile Organic Compound (VOC)	: NA
Evaporation Rate (butyl acetate = 1)	: NA
Specific Gravity (water = 1 at 25 °C)	: 7.29
Flash Point (°C)	: NA
Auto-ignition Temperature (°C)	: NE

## SECTION 10 : PHYSICAL HAZARDS (STABILITY AND REACTIVITY)

Stability	: Stable
Hazardous Polymerization	: Will not occur
Condition to Avoid	: Moisture , excessive heat during storage.
Incompatibility	: Strong acids and alkalis, oxidizing agents.
Hazardous Decomposition Products	: Carbon Dioxide,Carbon Monoxide,Metal Oxide.

## SECTION 11 : TOXICOLOGICAL INFORMATION

Carcinogenicity : Not listed

Effects of Overexposure (Chronic Effect) : Breathing of chemical fumes during process may produce respiratory irritation.

Medical Condition Generally Aggravated by Exposure : Chemical fumes during process may irritate the eyes.

## SECTION 12 : ECOLOGICAL INFORMATION

Environmental Toxicity : No information found.

## SECTION 13 : DISPOSAL INFORMATION

Dispose according to federal, state and local regulations.

## SECTION 14 : TRANSPORT INFORMATION

Special Shipping Instruction : NA

## SECTION 15 : REGULATORY INFORMATION

a. Proposed Classification : Harmful

b. Risk Phrase : Harmful by inhalation, in contact with skin and if swallowed  
Irritating to eyes, respiratory system and skin.

c. Safety Phrase : Do not breath chemical fumes during process.

Avoid contacts with skin or eyes. In case of contact with skin, rinse immediately with plenty of water.

Wear suitable protective clothing, gloves and eye / face protection.

## SECTION 16 : OTHER INFORMATION

NFPA Rating :

Health : 1      Flammability : 0      Reactivity : 0

HMIS Rating :

Health : 1      Flammability : 0      Reactivity : 0

The information contained herein is based on data considered accurate and is offered solely for information consideration and investigation.

Electroloy extends no warranties, makes no representation and assumes no responsibility as to the accuracy, completeness or suitability of this data for any purchaser's use. The data on this Material Safety Data Sheet relates only to this product and does not relate to use with any other material or in any process. All chemical products should be used only by or under the direction of technically qualified personnel who are aware of the hazards involved and the necessity for reasonable care in handling. Hazard communication regulations require that employees must be trained how to use a Material safety Data Sheet as a source of Hazard information.

NE = Not Established

NA = Not Applicable