

# **SAFETY DATA SHEET**

### **Section 1: GENERAL INFORMATION**

TRADE NAME (Common Name or Synonym) CHEMICAL NAME PREPARED BY

Tin Solder Tin Metallic Resources

**USED IN INDUSTRIAL SOLDERING PROCESSES** 

ADDRESS (No., Street, City, State, Zip Code):

Metallic Resources, Inc., 2368 East Enterprise Parkway, Twinsburg, OH 44087

CONTACT PHONE NUMBER

Metallic Resources, Inc.: (330) 425-3155

Chemtrec: (800) 424-9300

or contact any emergency room within 15 minutes of your location.

#### **Section 2: HAZARDS IDENTIFICATION**

**Signal Word: Warning** 

#### **Hazard statement(s)**

H319 Causes serious eye irritation (dust/powder form)

H335 May cause respiratory irritation

# Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P270 Do not eat, drink or smoke when using this product

P271 Use only outdoors or in a well-ventilated area

P273 Avoid release to the environment

P280 Wear protective gloves/protective clothing/eye protection/face protection

P362 Take off contaminated clothing and wash before reuse

P302 +P352 IF ON SKIN: Wash with plenty of soap and water

P305 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Continue rinsing. (15 mins)

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

#### **POTENTIAL HEALTH EFFECTS:**

**Eye Contact:** Irritant in dust form. May cause irritation in solid form.

**Ingestion:** Not generally considered toxic, but large amounts may cause gastrointestinal disturbances due

to local irritation.

**Inhalation:** Dust may cause irritation to the respiratory tract.

**Skin Contact:** Mechanical irritant on contact cannot be absorbed through skin. May cause irritation.

**Chronic:** Prolonged inhalation of dust form may cause pneumoconiosis, producing distinctive changes in

the lungs with no apparent disability or complications.

**NOTE:** Metallic Resources does not recommend, manufacture, market or endorse any of its products

for human consumption.



Section 3: COMPOSITION/INFORMATION ON INGREDIENTS		
Material or Substance	C.A.S. #	Wt. %
Tin	7440-31-5	98–100%

# **Section 4: FIRST AID MEASURES**

**Eye Contact:** Hold eyelids apart and flush eyes with plenty of tepid water for at least 15 minutes. Seek medical

attention if irritation persists.

**Ingestion:** If patient is conscious, ONLY induce vomiting as directed by trained personnel. NEVER give

anything by mouth to an unconscious person. Seek medical attention immediately.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration or oxygen by trained personnel.

Seek immediate medical attention.

Skin Contact: Remove contaminated clothing. Wash affected area with soap and water. Wash clothing before

reuse. If irritation persists, obtain medical attention.

#### **Section 5: FIRE FIGHTING MEASURES**

**Flash Point:** Not established. **Method:** Not established. **Auto-ignition Temperature:** 1166F (630C) dust cloud; 806F (430C) dust layer

Flammable Limits: LEL 0.19 g/l. Fine dust could be a potential explosion hazard. Sufficient concentration in

air and the presence of an ignition source is a potential dust explosion hazard. Minimum explosible concentration: 0.19 g/l particle size and air concentration determine reactivity.

**Extinguishing Media:** Use extinguishers appropriate for the surrounding fire conditions. Use dry sand, sodium

chloride, or dolomite. Water, A/B/C extinguishers and halogenated agents are not

recommended.

Special Fire Fighting Firefighters wear an approved self-contained breathing apparatus and full

**Procedures:** protective clothing.

Tin is not considered to be flammable or combustible.

# **Section 6: ACCIDENTAL RELEASE MEASURES**

Spill or Leak Procedures: Wear respirator and other personal protective clothing. (See Exposure

Controls/Personal Protection Section). Extinguish or remove all sources of ignition. Ventilate area. Clean up spill without generating or dispersing dust into the air. Vacuum solids instead of sweeping using a grounded unit. Reduce airborne dust and prevent scattering by moistening with water. Place spilt material in a container and dispose of in

accordance with applicable regulations.

## **Section 7: HANDLING AND STORAGE**

**Handling Precautions:** Avoid breathing vapors from heated material and dusts from cutting or grinding. Avoid

contact with eyes, skin and clothing. Follow routine safe handling procedures. Use with adequate ventilation. Solid material does not present a hazard. Tin in dust form must be contained. Wear gloves and a respirator may be needed during certain work tasks

where there is a potential for exposure.

**Storage Precautions:** Keep away from heat and flame. Store in suitable, tightly capped, and labeled containers

in cool dry, well-ventilated area. Empty containers may be hazardous as they contain product residue. Containers of dust product must be grounded to control potential

static charge.

#### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Local exhaust ventilation is recommended to control any airborne contaminants and to

keep exposure limits to as low as possible. Ventilation is required in dust applications or

when grinding or cutting.

**Personal protection:** 

**Eyes:** Chemical safety glasses/goggles. Face shield for splash hazards.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (Continued)

**Respirator:** An approved or compliant air-purifying respirator with a fume/dust chemical cartridge

or HEPA dust mask is recommended under certain circumstances where airborne concentrations are expected to be elevated. Warning: Air purifying respirators do not protect the worker in oxygen-deficient atmospheres. Dust mask is not recommended in

high exposure areas.

**Skin:** Wear protective gloves when handling powder form or hot metal.

**Other:** Eye-wash fountain/shower in work area. Avoid the use of contact lenses in high fume

and dust areas.

Work/Hygienic: Maintain good housekeeping. Clean up spills immediately. Good personal hygiene is

essential. Avoid eating, smoking or drinking in the work area. Wash hands thoroughly

with soap and water immediately upon leaving the work area.

# **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:Silver grey solid metalBoiling Point:Not applicable.Odor:OdorlessMelting Point:441°F (227°C)

Specific Gravity: Alloy Dependent pH: Not applicable

Vapor Pressure:Not applicable.Solubility in Water:InsolubleVapor Density:(air=1) Not applicable.Flash point:Not applicable

## **Section 10: STABILITY AND REACTIVITY**

General: Stable.

**Conditions to Avoid:** Not established.

**Incompatible Materials:** Avoid contact with mineral acids.

**Hazardous Decomposition /** Tin/Tin Oxides

**Combustion:** 

**Hazardous Polymerization:** Will not occur.

## **Section 11: TOXICALOGICAL INFORMATION**

Carcinogenicity:

National Toxicity Program (NTP): No

Occupational Safety & Health Administration (OSHA): No U.N. International Agency for Research on Cancer (IARC): No

**LD50:** Not established **LC50:** Not established

Other: RTECS#: Tin – XP7320000 (Registry of Toxic Effects of Chemical Substances)

# **Section 12: ECOLOGICAL INFORMATION**

No Data Available

#### Section 13: DISPOSAL CONSIDERATION

**Waste Disposal Method:** Scrap metal alloy usually has value. Contact a commercial reclaimer for recycling.

Otherwise, dispose of in accordance with all Federal, State and Local environmental regulations. In Europe follow the Special Waste Regulations. Avoid release to the

environment.

## **Section 14: TRANSPORT INFORMATION**

Transport in accordance with applicable regulations and requirements. Not regulated under US DOT (United States Department of Transportation. Non-hazardous under shipping regulations.

UN - none

Not dangerous goods

# Section 15: REGULATORY INFORMATION

**UNITED STATES** 

**HCS Classification**: Irritating material, target organ effects.

**U.S. Federal Regulations:** All ingredients comply with applicable rules or orders under US TSCA.

All components are listed or exempted.

SARA 313 Substance Name

Form R - Reporting Requirements: Tin (solid) is not a hazard

**Supplier Notification**: Tin (solid) is not a hazard

Reach Directive: This product does not contain any Substances of Very High Concern (SVHC).

#### **Section 16: OTHER INFORMATION**

**ABBREVIATION TERMS:** 

ACGIH American Conference of Government Industrial Hygienists OSHA Occupational Safety and Health Act

CAS Chemical Abstracts Service PEL Permissible Exposure Limit
CEPA Canadian Environmental Protection Act REL Recommended Exposure Limit

IARC International Agency for Research on Cancer SARA Superfund Amendments & Reauthorization Act

NIOSH National Institute for Occupational Safety and Health TSCA Toxic Substances Control Act

NTP National Toxicology Program N/A Not Applicable, Not Available

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