

SAFETY DATA SHEET

Section 1: GENERAL INFORMATION

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

Cored Tin/Silver Solder Wire Tin/Silver 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)

H303 May be harmful if swallowed

H335 May cause respiratory irritation

Precautionary statement(s)

P233 Keep container tightly closed

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

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

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

P301 + P314 IF SWALLOWED: Get Medical advice/attention if you feel unwell

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

P304 + 341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

P305 + 351 IF IN EYES: Rinse continuously with water for several minutes (15 mins)

P501 Dispose of in accordance with applicable local/state and federal regulations. Consider recycling.

POTENTIAL HEALTH EFFECTS:

Eye Contact: Contact with powered metal alloy or fume from molten metal may cause irritation. Severe eye

damage may result from hot molten metal being splashed into the eyes. Wear safety glasses and

face shield when working with molten metal.

Ingestion: Ingestion of dust may cause headache, nausea, abdominal pain, fatigue and pain in the legs,

arms and joints. May be harmful.

Inhalation: Inhalation of fume or dust may cause local irritation to the respiratory system. Inhalation of

fume or dust may cause headache, nausea, abdominal pain, fatigue and pain in the legs, arms

and joints. Inhalation can be harmful.

Skin Contact: Normal handling of solid metal should not cause any adverse health effects. Hot molten metal may

cause burns to the skin. Wear protective equipment when handling molten metal. Protect skin when

grinding/cutting, may cause irritation.



Section 2: HAZARDS IDENTIFICATION (Continued)

Chronic: TIN: Has been shown to increase incidence of sarcoma in animal tests. Chronic exposure may result in "stannosis" a mild form of pneumoconiosis.

Silver: Chronic skin contact or ingestion of silver dusts, salts or fume can result in a condition known as

Exposure to metal fumes may cause irritation to the respiratory system. Long term exposure by inhalation to metal fumes may cause illness such as metal fume fever.

Exposure to lead fume may cause harm. Sign of overexposure is anemia.

Argyria, a condition with bluish pigmentation of the skin and eyes.

NOTE: Metallic Resources does not recommend, manufacturer, 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	93-99%
Silver	7440-22-4	0.2-7.0%
Rosin	65997-05-9	< 3

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: Not established.

Flammable Limits: Limits not established. Massive metal is not flammable; however dust or powder may

be a dust hazard.

Extinguishing Media: Use extinguishers appropriate for the surrounding fire conditions. Never add water to

molten metal.

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

Procedures: protective clothing.

Section 6: ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Contain spill. If molten, cool to allow metal to solidify. If a solid metal, wear gloves, pick

up and return to process. If dust, wear recommended personal protective equipment. DO NOT SWEEP, avoid generation of dust. Ventilation required. Use a vacuum, place in barrels and return to process if applicable. Otherwise, dispose of following all Federal, State and Local regulations. In the EU refer to the Special Waste Regulations. Metal has

reclaim value.

Section 7: HANDLING AND STORAGE

Handling Precautions: Only dry metals should be added to molten bath. If working with molten metals, or

exposed to fume or dust, use appropriate personal protective equipment.

Storage Precautions: Store product in a cool, dry area away from incompatible materials.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exhaust ventilation is required to control any air contaminants containing lead. Control

concentration of all components so that their permissible exposure limits are not

exceeded.

Personal protection:

Eyes: Chemical safety glasses/goggles and face shield with molten metal.

Respirator: An authority approved or compliant marked air-purifying respirator with a fume/dust

chemical cartridge is recommended under certain circumstances where airborne concentrations are expected to be elevated or if in powder form. Avoid inhalation of lead dust. Additional respiratory protection may be required based on the work

conditions.

Skin: Gloves-leather or impervious (vinyl) type. Heat resistant gloves if handling hot metal.

Safety type boots. Personal protective equipment is recommended when working with

molten metal to avoid burns.

Other: Lab coat, safety shower and eye-wash fountain in work area. Avoid the use of contact

lenses in high fume areas.

Work/Hygienic Practices: 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. Follow standard lead

work practices as established under governmental regulations.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:Silver grey solid metalBoiling Point:Not applicable.Odor:OdorlessMelting Point:423°F (217°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 / Harmful organic fumes and toxic oxide fumes may form at elevated

Combustion: temperatures. **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:

Irritancy of Product:Not establishedMutagenicity:Not establishedSensitization to Product:Not establishedTeratogenicity:Not establishedReproductive Toxicity:No specific data is availableSynergistic Products:Not established

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

Section 12: ECOLOGICAL INFORMATION

Product mixture not tested.

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).

Metal solid form:

Not hazardous under shipping modes/ regulations.

UN - none

Section 15: REGULATORY INFORMATION

UNITED STATES

HCS Classification: Irritating material, target organ effects.

U.S. Federal Regulations: TSCA 5(a)2 proposed risk management: SILVER.

TSCA 5(a)2 final significant new use rules. No products were found.

TSCA 12(b) one time export. No products were found.

SARA 313 Substance Name

Form R - Reporting Requirements: Silver Supplier Notification: Silver

WHMIS (Canada): Not controlled under WHMIS (Canada).

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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and risk in the use of this product.