



SAFETY DATA SHEET

TRADE NAME (Common Name or Synonym)	CHEMICAL NAME	PREPARED BY
WS-400 Solder Paste	Tin/Copper Solder Paste	Metallic Resources
ADDRESS (No., Street, City, State, Zip Code): Metallic Resources, Inc., 2368 East Enterprise		
CONTACT		
CONTACT	PHONE NUMBER	
CONTACT Metallic Resources, Inc.:	(330) 425-3155	

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: Ingestion:	Irritant in dust form. May cause irritation in solid form. 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.
Warning:	This product contains a chemical known to the State of California to cause cancer and birth defects (or other reproductive harm). (trace levels of lead not intentionally added)



SDS-WS400 Tin/Copper Solder Past			
Section 3: COMPOSITION/INFORMATION ON INGREDIENTS			
Material or Substance	C.A.S. #	Wt. %	
Tin	7440-31-5	100%	
Copper	7440-50-8	< 2.5%	
Glycol Ether DB	112-334-5	< 2.0%	
Modified Rosin	65997-05-9	< 4.0%	

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	

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 T	emperature: 1166	F (630C) dust clo	oud; 806F (430C) dust layer
Flammable Lim	its: LEL 0.19 g/l. F	ine dust could b	be a potential explosion hazard. Sufficient concentration in
Extinguishing N	explosible co /Iedia: Use extinguis	ncentration: 0.1 hers appropriate olomite. Water,	nition source is a potential dust explosion hazard. Minimum 9 g/l particle size and air concentration determine reactivity. e for the surrounding fire conditions. Use dry sand, sodium , A/B/C extinguishers and halogenated agents are not
Special Fire Fig Procedures:	hting Firefighters w protective clo	••	d self-contained breathing apparatus and full

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 in	
	accordance with applicable regulations.	

Section 7: HANDLING	G 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.
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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.
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: Odor: Specific Gravity: Vapor Pressure: Vapor Density: Silver grey Odorless Alloy Dependent Not applicable. (air=1) Not applicable. Boiling Point:Not applicable.Melting Point:441°F (227°C)pH:Not applicableSolubility in Water:InsolubleFlash 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 OxidesCombustion: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 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 compone	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

 Issue Date:
 5/1/15

 Revised Date:
 12/1/2023

Disclaimer Notice: The information contained herein in this Safety Data Sheet is believed to be accurate. However, it provides no warranties, either express or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein. The customer/user of this product assumes all liability and risk in the use of this product.