SDS-TIN WIRE



# SAFETY DATA SHEET

Section 1: GENERAL INFORMATION		
TRADE NAME (Common Name or Synonym)	CHEMICAL NAME	PREPARED BY
Cored Tin Solder Wire	Tin	Metallic Resources
USED IN INDUSTRIAL SOLDERING PROCESSES		
ADDRESS (No., Street, City, State, Zip Code): Metallic Resources, Inc., 2368 East Enterprise Pa	arkway, Twinsburg, OH 44087	
	arkway, Twinsburg, OH 44087 PHONE NUMBER	
Metallic Resources, Inc., 2368 East Enterprise Po		
Metallic Resources, Inc., 2368 East Enterprise Pa CONTACT	PHONE NUMBER	

# 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.

Materia	I or Substance	C.A.S. #	Wt. %		
	Tin	7440-31-5	100%		
Section 4: FI	RST AID MEASUF	RES			
Eye Contact:	Hold eyelids apart a	nd flush eyes with plenty of tepid wa	ter for at least 15 minutes. Seek medical		
	attention if irritation	•			
Ingestion:	•	us, ONLY induce vomiting as directed	, , ,		
		to an unconscious person. Seek med	•		
Inhalation:			ration or oxygen by trained personnel.		
	Seek immediate medical attention.				
Skin Contact:	Remove contaminat	ted clothing. Wash affected area with	h soap and water. Wash clothing before		
Skin Contact:	Remove contaminat		h soap and water. Wash clothing before		
	Remove contaminat reuse. If irritation po	ted clothing. Wash affected area with ersists, obtain medical attention.	h soap and water. Wash clothing before		
Section 5: FII	Remove contaminat reuse. If irritation per REFIGHTING ME	ted clothing. Wash affected area with ersists, obtain medical attention.			
Section 5: FII Flash Point:	Remove contaminat reuse. If irritation per RE FIGHTING ME Not established.	ted clothing. Wash affected area with ersists, obtain medical attention. <b>EASURES</b> Method: Not established.			
Section 5: FII Flash Point: Auto-ignition	Remove contaminat reuse. If irritation por REFIGHTING ME Not established. Temperature: 1160	ted clothing. Wash affected area with ersists, obtain medical attention. <b>EASURES</b> <b>Method:</b> Not established. 6F (630C) dust cloud; 806F (430C) du	Ist layer		
Section 5: FII Flash Point:	Remove contaminat reuse. If irritation por REFIGHTING ME Not established. Temperature: 1160 nits: LEL 0.19 g/l.	ted clothing. Wash affected area with ersists, obtain medical attention. <b>CASURES</b> <b>Method:</b> Not established. 6F (630C) dust cloud; 806F (430C) du . Fine dust could be a potential explose	ist layer sion hazard. Sufficient concentration in		
Section 5: FII Flash Point: Auto-ignition	Remove contaminat reuse. If irritation por <b>RE FIGHTING MIR</b> Not established. <b>Temperature:</b> 1160 <b>nits:</b> LEL 0.19 g/l. air and the p	ted clothing. Wash affected area with ersists, obtain medical attention. <b>CASURES</b> <b>Method:</b> Not established. 6F (630C) dust cloud; 806F (430C) du . Fine dust could be a potential explose presence of an ignition source is a potential explose	ist layer sion hazard. Sufficient concentration in tential dust explosion hazard. Minimum		
Section 5: FII Flash Point: Auto-ignition Flammable Lir	Remove contaminat reuse. If irritation per <b>RE FIGHTING ME</b> Not established. <b>Temperature:</b> 1160 <b>nits:</b> LEL 0.19 g/l. air and the per explosible contacts	ted clothing. Wash affected area with ersists, obtain medical attention. <b>EASURES</b> Method: Not established. 6F (630C) dust cloud; 806F (430C) du Fine dust could be a potential explose presence of an ignition source is a por oncentration: 0.19 g/l particle size an	ist layer sion hazard. Sufficient concentration in tential dust explosion hazard. Minimum nd air concentration determine reactivity.		
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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 AN	D STORAGE
Handling Precautions: Storage 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. 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 CO	NTROLS/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.
-	NTROLS/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 metal	Boiling Point: Not applicable.
Odor:	Odorless	Melting Point: 447°F (231°C)
Specific Gravity:	Alloy Dependent	pH: Not applicable
Vapor Pressure:	Not applicable.	Solubility in Water: Insoluble
Vapor 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.

SDS-TIN W	U.S. Federal Regulations: All ingredien All compone SARA 313	nts are listed or Substance Nar	exempte ne	ed.	r orders under US TSCA.	Soldering Wire
	Form R - Reporting Requirements:	Tin (solid) is no	ot a haza	rd		
	Supplier Notification:	Tin (solid) is no	ot a haza	rd		
	Reach Directive: This product does not	contain any Sub	ostances	of Very	High Concern (SVHC).	
Section	<b>16: OTHER INFORMATION</b>					
ABBRE	/IATION TERMS:					
ACGIH	American Conference of Government I	ndustrial Hygien	ists	OSHA	Occupational Safety and He	ealth Act
CAS	Chemical Abstracts Service		PEL	Permis	sible Exposure Limit	
CEPA	Canadian Environmental Protection Act	t	REL	Recom	mended Exposure Limit	
IARC	International Agency for Research on C	ancer	SARA	Superf	und Amendments & Reautho	prization Act
NIOSH	National Institute for Occupational Safe	ety and Health	TSCA	Toxic S	ubstances Control Act	
NTP	National Toxicology Program		N/A	Not Ap	plicable, Not Available	
					5/1/15 11/22/2022	

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