

International Wire
 Bare Wire Division
 12 Masonic Avenue
 Camden, NY 13316

Material Safety Data Sheet

Section 1: General Information					
DATE OF PREPARATION: January 1, 2009			HMIS HAZARD RATING:		
MSDS NUMBER: 112		0=Insignificant		
EMERGENCY PHONE NO.: (315) 245-3800			1=Slight		
PRODUCT NAME: TIN COATED CADMIUM COPPER WIRE			Health 1* 2=Moderate		
(SINGLE & MULTIPLE STRAND CONSTRUCTION)			Flammability 0 3=High		
			Reactivity 0 4=Extreme		
			*=Chronic Health Hazard		
Section 2: Hazardous Ingredients					
Components - Chemical & Common Names Hazardous >1% Carcinogens >0.1%	CAS Number	%	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Copper - Fume	7440-50-8	88.8+	0.1mg/m3	0.2mg/m3	2.0mg/m3*
- Dust			1.0mg/m3	1.0mg/m3	
Tin	7440-31-5	0-10	2.0mg/m3	2.0mg/m3	4.0mg/m3*
Cadmium Fume (SARA Title III Sec. 313 Chemical)	7440-43-9	0.7-1.2	0.1mg/m3	.	0.04/0.2C**
-Dust			.	.	0.04/0.2C**
-Oxide			0.2mg/m3	.	0.04/0.2C**
Non-Hazardous Components				0.5mg/m3	.
TOTAL		100		c=ceiling	**NIOSH TWA *ACGIH STEL
Section 3: Physical Properties					
BOILING POINT: 2,324 C as Copper		SPECIFIC GRAVITY: 8.76 – 8.89			
VAPOR PRESSURE: 1mm Hg @ 811 C as Tin		MELTING POINT: 1,030 C as Copper			
VAPOR DENSITY: N/A		EVAPORATION RATE: N/A			
SOLUBILITY IN WATER: Insoluble		APPEARANCE AND ODOR: Metal with			
WATER REACTIVE: Un-reactive		white color and no odor			
Section 4: Fire & Explosion Hazard Data					
FLASH POINT: N/A		AUTO IGNITION TEMPERATURE: N/A			
LOWER EXPLOSIVE LIMIT: N/A		UPPER EXPLOSIVE LIMIT: N/A			
EXTINGUISHER MEDIA: Powdered Dolomite, Sodium Chloride, or Graphite.					
SPECIAL FIRE FIGHTING PROCEDURES: Fine copper powder is a moderate fire hazard. For metal powder fires do not use water.					
UNUSUAL FIRE AND EXPLOSIVE HAZARDS: Copper reacts violently with acetylene, ammonium nitrate, bromates, chlorates, iodates, halogens, chlorine difluoride, chlorine trifluoride, bromine trifluoride, CL2+ OF2, ethylene oxide, hydrogen peroxide, hydrazine mononitrate, hydrazoic acid, hydrogen sulfide, lead nitrate, sodium peroxide, copper nitrate, and sulfur.					

Section 5: Reactivity Hazard Data			
STABILITY: Stable INCOMPATIBLE MATERIALS: 1-Bromo 2-Propyne, ammonia, zinc, selenium, tellurium, and oxidizing agents (See Section 4). HAZARDOUS DECOMPOSITION PRODUCTS: Toxic metal fumes HAZARDOUS POLYMERIZATION: Will not occur CONDITIONS TO AVOID: N/A			
Section 6: Health Hazard Data			
PRIMARY ROUTES OF ENTRY:			
Skin	X	Inhalation	Ingestion
			Not Hazardous
CARCINOGEN LISTED IN:			
NTP	IARC Monograph	OSHA	X Not Listed
HEALTH HAZARDS:			
<u>Acute</u> : Metal fume fever			
<u>Chronic</u> : Cadmium may cause kidney dysfunction, emphysema, bronchitis, and is a possible carcinogen.			
<u>Symptoms of Exposure</u> : Chills, fever, aching muscles, dry mouth & throat, headache, nausea, vomiting and diarrhea.			
<u>Medical Conditions Aggravated by Exposure</u> : Wilson's disease			
EMERGENCY FIRST AID PROCEDURES: Seek medical attention for further treatment			
<u>Eye Contact</u> : Fragments in the cornea may cause cataracts, remove metal fragments & flush eyes with fresh water			
<u>Skin Contact</u> : Remove contaminated clothing and wash before reuse. Flush skin with copious amounts of fresh water.			
<u>Inhalation</u> : Remove to fresh air. If breathing has stopped administer CPR.			
<u>Ingestion</u> : May be moderately irritating to stomach lining. Induce vomiting if conscious.			
Section 7: Control and Protective Measures			
RESPIRATORY PROTECTION: NIOSH/MSHA approved respirator when toxic dust and/or fumes are present.			
PROTECTIVE GLOVES: None required			
EYE PROTECTION: Safety glasses required when working with metal products			
VENTILATION TO BE USED: X Yes No Type used: Local ventilation			
*Specific process exhaust if process over melting point, 1,030 Degrees C.			
OTHER PROTECTIVE EQUIPMENT: None required			
<u>Hygienic work practices</u> : Practice good housekeeping and personal hygiene procedures.			
Section 8: Precautions for Safe Handling and Disposal			
<u>Clean up of spilled materials</u> : If material is molten, allow to cool and solidify. Clean up using methods which minimizes copper dust			
<u>Waste Disposal Methods</u> : Recycle scrap material in accordance with all local, state & federal regulations.			
<u>Handling and Storage Precautions</u> : Avoid storage near incompatible material (see sec. 5). Also avoid conditions which will cause the generation of metal fumes or dust.			
<u>Other Precautions or Special Hazards</u> : Wash exposed skin after handling.			
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