

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 MSDS NUMBER: 101 EMERGENCY PHONE NO.: (315) 245-3800 PRODUCT NAME: BARE COPPER WIRE SINGLE & MULTIPLE STRAND CONSTRUCTION			HMIS HAZARD RATING: 0=Insignificant Health 1 1=Slight Flammability 0 2=Moderate Reactivity 0 3=High 4=Extreme		
Section 2: Hazardous Ingredients					
Components - Chemical & Common Names Hazardous >1% Carcinogens > 0.1%	CAS Number	%	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Copper - Fume - Dust	7440-50-8	100	0.1mg/m3 1.0mg/m3	0.2mg/m3 1.0mg/m3	2.0mg/m3
Non-Hazardous Components <b>TOTAL</b>		100			
Section 3: Physical Properties					
BOILING POINT: 2595C	SPECIFIC GRAVITY: 8.92		MELTING POINT: 1083 C		
VAPOR PRESSURE: 1mm Hg @ 877 C	EVAPORATION RATE: N/A		APPEARANCE AND ODOR: Metal with reddish color and no odor		
VAPOR DENSITY: N/A	SOLUBILITY IN WATER: Insoluble				
WATER REACTIVE: Un-reactive					
Section 4: Fire & Explosion Hazard Data					
FLASH POINT: N/A	AUTO IGNITION TEMPERATURE: N/A		LOWER EXPLOSIVE LIMIT: 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 copper fires do not use water.					
UNUSUAL FIRE AND EXPLOSIVE HAZARDS: Copper reacts violently with C2H2, NH4NO3, Bromates, Chlorates, Iodates, C12,C1F2, Ethylene Oxide, F2,H2O2, Hydrazine mononitrate, Hydrazoic acid,H2S, K2O2, NaN3,Na2O2,CUNO3,S.					

## Material Safety Data Sheet, continued

<b>Section 5: Reactivity Hazard Data</b>	
STABILITY:	Stable
INCOMPATIBLE MATERIALS:	1-Bromo 2-Propyne (See Section 4)
HAZARDOUS DECOMPOSITION PRODUCTS:	Toxic metal fumes
HAZARDOUS POLYMERIZATION:	Will not occur
CONDITIONS TO AVOID:	N/A
<b>Section 6: Health Hazard Data</b>	
PRIMARY ROUTES OF ENTRY:	
Skin	X
Inhalation	X
Ingestion	X
Not Hazardous	X
CARCINOGEN LISTED IN:	
NTP	X
IARC Monograph	X
OSHA	X
Not Listed	X
HEALTH HAZARDS:	
Acute:	Metal fume fever
Chronic:	No long term effect reported
Symptoms of Exposure:	Chills, fever, aching muscles, dry mouth & throat headache, nausea, vomiting and diarrhea
Medical Conditions Aggravated by Exposure:	Wilson's disease
EMERGENCY FIRST AID PROCEDURES:	Seek medical attention for further treatment
Eye Contact:	Remove metal fragments & flush eyes with fresh water
Skin Contact:	Remove contaminated clothing. Flush skin with copious amounts of water.
Inhalation:	Remove to fresh air. If breathing has stopped administer CPR
Ingestion:	May be moderately irritating to stomach lining. Induce vomiting if conscious
<b>Section 7: Control and Protective Measures</b>	
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
OTHER PROTECTIVE EQUIPMENT:	None required
Hygienic work practices:	Practice good housekeeping and personal hygiene procedures
<b>Section 8: Precautions for Safe Handling and Disposal</b>	
Clean up of spilled materials:	Clean up using method which minimizes copper dust generation
Waster Disposal Methods:	Recycle scrap material in accordance with all local, state & federal regulations
Handling and Storage Precautions:	Avoid storage near incompatible material (see sec. 5). Also avoid conditions which will cause the generation of copper dust.
Other Precautions or Special Hazards:	Wash exposed skin after handling.
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