International Advanced Materials



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Material Data Safety Sheet

Quick Identifier: Copper

I. PRODUCT IDEN	TIFICATION				
Trade Name: Copp	ber		Formula:	Cu	
Synonyms: Copp	Copper Metal		Molecular Weight	: 63.55	
CAS #: 7440	-50-8				
II. HAZARDOUS IN	NGREDIENTS				
Hazardous Components	<u>S:</u> OSHA	PEL:	ACGIH TLV:	Other I	Limits:
Copper	1 mg/n	n3	1 mg/m3		
Sec. 302 (EHS):	No	Sec. 304 RQ:	No	Sec. 313:	No
HMIS Ratings (0-4): He		Flammability :	N/A	Reactivity :	N/A
HMIS Protective Equip	ment: N/A				
III. PHYSICAL DA					
Boiling Point:	2595 C	Mel	ting Point:	1800 C	
Specific Gravity (H2O=		Vap	or Density (Air=1)		
Vapor Pressure (mm Hg			poration Rate:	N/A	
% Volatiles by Volume:	: N/A	Solu	ibility in H2O:	None	
Appearance and Odor:	Copper Met	allic, Odorless			
IV. FIRE AND EXP		RDS DATA			
Flash Point/Method:	None				
Explosive Limits: LE	EL: N/A U	JEL: N/A			
Extinguishing Media:			extinguishing mater		
Special Fire Fighting Pr			lid state present no		
Unusual Fire and Explo	sion Hazards:		s under favoring cor		
		Dispersion in air	and strong ignition s	source may result	in an explosion
V. HEALTH HAZA	DD INFODMAT	ION			
Routes of Entry:		on, Skin and Eyes.	altin liven bidnass		
Target Organs:			skin, liver, kidneys.	Dogulated	No
Carcinogenicity: NTP:		C Monographs:	No OSHA	Regulated:	No
LD50/LC50: No toxicity	uata recorded.				

Health Hazards (Acute and Chronic): Inhalation: If inhaled, can cause sneezing, nausea, weakness, and fever. Acute: Chronic: N/A Ingestion: Can cause nausea, vomiting, and diarrhea Acute: Chronic: N/A Skin: Acute: May cause irritation of skin. Chronic: N/A Eye: May cause irritation of eyes. Acute: N/Å Chronic:

Signs and Symptoms of Exposures:

Inhalation:Irritation of the respiratory system.Ingestion:Irritation of skin.Skin:Irritation of skin.Eye:Irritation of eyes.Medical Conditions GenerallyN/AAggravated by Exposure:N/A

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION:	Remove from dusty area to fresh air.
INGESTION:	N/A
SKIN:	No hazard associated with skin contact.
EYE:	Flush with water to insure no particles remain in the eye.

VI. REACTIVITY DATA

Stability:	Stable	
Incompatibility (Material to avoid):	Mercury, Ammonia, Acetylene, Acids	
Hazardous Decomposition Products:	Toxic gases, aerosols and vapors may be released in a fire involving copper alloys if fumes of other compounds or other contacting materials	
	are involved.	
Hazardous Polymerization:	Will not occur	
Conditions to Avoid:	Exposure during storage to strong acids, bases or oxidizing agents.	

VII. SPILL OR LEAK PROCEDURES

Steps to Be Taken in Case Material	N/A
Is Released or Spilled:	
Waste Disposal Method:	According to local, state and federal regulations.
Hazard Label Information:	N/A
Precautions to Be Taken in Handling	No special precautions are required.
and Storing:	

VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection :	NIOSH/MSHA- Approved dust and fume, respirator should be used to avoid
	excessive inhalation of particulates when exposure exceeds TLV's
Ventilation: Local Exhaust:	Use when welding, burning, sawing, brazing, grinding, or machining.
Mechanical (General):	N/A
Protective Gloves:	Use when appropriate
Eye Protection:	Safety glasses or goggles
Other Protective Clothing or	Protective equipment should be utilized as required by wielding.
Equipment:	

Work/Hygienic/Maintenance Normal hygienic practices. Practices:

IX. ADDITIONAL COMMENTS

Some of the chemicals listed herein are research or experimental substances which may be toxic, as defined by various governmental regulations. In accordance with Environmental Protection Agency regulations and the Toxic Substance Control Act (TSCA), these materials should only be handled by, or under the direct supervision of a "technically qualified individual", as defined in 40 CFR 710.2(aa).

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