Material Safety Data Sheet Copper

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A. GENERAL INFORMATION

Trade Name (Common Name)		⊠ C.A.S. No.	☐ General Product Code#
COPPER SHEET - FLASHING		7440-	50-8
Chemical Name and/or Synonym			
Copper 99.9+%			
Formula			Molecular Weight
Cu			63.55
Copper Cat Systems LLC			
1748 Traditional Drive, Ste B,			
Walled Lake MI 48390			
Contact – Mark Edgson	Phone Number - 866-52	26-2228	

B. FIRST AID MEASURES

Eyes: Flush eyes immediately with water for at least 15 minutes. Get medical attention.

Skin: Promptly wash with plenty of soap and water.

<u>Inhalation:</u> Remove to fresh air. Get medical assistance for irritation or any other symptoms.

<u>Ingestion:</u> If conscious, give plenty of water or milk. Induce vomiting by touching finger to back of throat. Get immediate medical attention.

C. HAZARDS INFORMATION HEALTH

Inhalation

Dust or fume inhalation can cause "metal Fume Fever", Headaches, cramps, pain in extremities in addition to respiratory irritation.

Ingestion

Ingestion of copper will irritate the gastrointestinal tract producing salivation, nausea, vomiting and gastric pain.

Skin

Although not commonly associated with industrial dermatitis, mechanical irritation is possible along with skin discoloration.

Eyes

Mechanical irritation, potentially severe, can result from eye contact with this material.

Permissible Concentration: Air

TWA = 1 mg/m³ (dust); TWA =0.2 mg/m³ (fume); PEL = 1 mg/m³ (dust).

Unusual Chronic Toxicity

Wilson's disease may be affected by copper exposure.

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C. HAZARDS INFORMATION (Cont.) FIRE AND EXPLOSION

Flash Point	°C	Auto Ignition Temperature °C	Flammable limits in Air (% by Vol.) Not applicable
☐ Open Cup	None □ Closed Cup	Not Applicable	LOWER UPPER
Unusual Fire and Explos	ion Hazards None Known		
D. PREC	AUTIONS/PROCEDU	RES	
Fire Extinguishing Agents Use any agent	s RECOMMENDED suitable for surrounding fir	e.	
Fire Extinguishing Agents None known.	s to AVOID		
Special Fire Fighting Pre Avoid breathing clothing.		rning material. Use NIOSH approved breat	hing apparatus and full protective
misty condition		ng areas, over open processing equipment	and any other places where dusty or
Normal Handling Avoid contact v	with eyes, skin, or clothing.	Avoid breathing dust or fume. Use good po	ersonal hygiene and housekeeping.
Storage Avoid storage r	near acetylene, chlorine, o	xidizers, magnesium, and halogenates.	
	ear Personal Protective Equipment - Section p up with minimum dusting		
Special: Precautions/Pro	cedures/Label Instructions	signal word - N/A	

E. PERSONAL PROTECTIVE EQUIPMENT

None

Respiratory Protection None needed under most conditions. If dust or fume is expected, use a NIOSH approved HEPA or fume respirator.
Eyes and Face Safety glasses or goggles.
None normally needed. Impervious gloves may be used to prevent mechanical irritation.
Other Clothing and Equipment Eye-wash is recommended.

F. PHYSI	CAL DATA	Material Safety Data Copper	Sheet	Document # - MSDS-05 Issue No. 2.3 Issue Date: 01/01/16 Page 3 of 4
Material is (at Normal Cor	nditions):	Appearance and Odor		
□ Gas □ Liqu	id ⊠ Solid	Yellow-red metal, odorless, various shapes		
Boiling Point	2595°C	Specific Gravity (H₂0 = 1)	Vapor D	Density (Air = 1)
Melting Point	1083°C	8.94		Not applicable
Solubility in Water (% by	weight) Low in metallic form	Not applicable	Vapor P	rressure (mmHg at 20°C) (PSIG) Not applicable
Evaporation Rate (Butyl Acetate = 1)	(Ether = 1) ☐ Not applicable	% Volatiles by Volume (at 20°C) Not applicable		
G. REAC	TIVITY DATA		·	
Stability		Conditions to Avoid		
☐ Unstable	⊠ Stable	None Known		
Incompatibility (Materials Acetylene, chlo	to Avoid) rine, oxidizers, magnesiun	n and halogenate.		
Hazardous Decomposition Extreme tempe	^{n Products} ratures can generate meta	al fume.		
Hazardous Polymerization	[□] ⊠ Will Not Occur	Conditions to Avoid Not applicable		

H. HAZARDOUS INGREDIENTS (Mixtures Only)

Material or Component/C.A.S. #		Hazard Data (See Sect. J)
Not Applicable	N/A	N/A

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I. ENVIRONMENTAL

Degradability/Aquatic Toxicity	Octanol/Water Partition Coefficient	
Not Determined	Not determined	
EPA Hazardous Substance? (Clean Water Act Sect. 307) 🗵 Yes 🗆 No If so, Reportable Quantity: 5000# (less than 100 micron diameter)		
Waste Disposal Methods (Disposer must comply with Federal, State and Local Disposal or Discharge Laws) Users should review their operations in terms of any applicable federal, state and local laws and regulations, then consult with appropriate regulatory agencies before discharging or disposing of waste materials. If regulations permit, waste may be disposed of by burial in an approved chemical wastes landfill or removed by a licensed waste disposal contractor.		
RCRA Status of <u>Unused</u> Material if Discarded: Follow EPA & local regulations to determine	Hazardous Waste Number: (If Applicable) N/A	

J. REFERENCES

Permissible Concentration References

29 CFR 1910.1000 (1989)

ACGIH 1991-92-List: "Threshold Limit Values for Chemical Substances".

D.O.T. Classification - Not regulated

General

Lucky, T.D., "Metal Toxicity In Mammals", 1977, Plenum Press, N.Y.

Sax, E.I., "Dangerous Properties of Industrial Materials", 7th edition

Sittig, M. "Handbook of Toxic and Hazardous Chemicals", 1985, Noyes, Park Ridge, N.J.

K. ADDITIONAL INFORMATION

NOTICE: This material contains the following toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To Know Act of 1986 and of 40 CFR 372:

CAS#	Chemical Name	% By Weight
7440-50-8	Copper	99.9+

This information must be included in all MSDS's that are copied and distributed for this material.

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