



**SAFETY DATA SHEET**

**SECTION 1. IDENTIFICATION**

Copper Tubing (all sizes and wall thicknesses)

Cerro Flow Products LLC  
PO Box 66800, St Louis, MO 63166-6800 Telephone number 618-337-6000

Recommended use: Plumbing and industrial copper tubing. Restricted use: None known

**SECTION 2. HAZARD IDENTIFICATION**

**CAUTION**

**Inhalation Hazard** Fumes are created by heating copper past its melting point. Proper soldering or sweating copper tubes will not produce fumes. Brazing of copper tube may produce fumes. Consult the Copper Development Association Inc. (CDA) “The Copper Tube Handbook” for proper joining methods, and recommended solders, fluxes and filler metals (see CDA link [https://www.copper.org/publications/pub\\_list/pdf/copper\\_tube\\_handbook.pdf](https://www.copper.org/publications/pub_list/pdf/copper_tube_handbook.pdf) to obtain handbook).

**Ingestion Hazard** Ingestion of metallic copper is not a primary route of exposure. Metallic copper may be moderately irritating to the gastrointestinal tract.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>MATERIAL OR COMPONENT</u>	<u>C.A.S. No.</u>	<u>WT. %</u>
Copper	7440-50-8	99.9+

**SECTION 4. FIRST AID MEASURES**

Inhalation: Remove from exposure; place individual under care of a physician.  
Ingestion: Induce vomiting in conscious individual and call a physician.  
Skin or Eyes; Flush with plenty of water. If symptoms develop, consult a physician.

**SECTION 5. FIRE FIGHTING MEASURES**

<u>FIRE AND EXPLOSION HAZARDS</u>	<u>FIRE EXTINGUISHING AGENTS RECOMMENDED</u>	<u>FIRE EXTINGUISHING AGENTS TO AVOID</u>
Not Applicable	No specific agents recommended	No specific agents recommended

**SPECIAL FIRE FIGHTING PRECAUTIONS**

Copper tube will not burn or give off toxic gases in normal fires Use fire fighting methods compatible with surrounding materials.

**SECTION 6. RELEASE MEASURES**

**SPILLS OR LEAKS**

Proper installation of copper tubing will not produce dust. Consult Copper Development Association, Inc (CDA) “The Copper Tube Handbook” for proper joining methods (See CDA link at [https://www.copper.org/publications/pub\\_list/pdf/copper\\_tube\\_handbook.pdf](https://www.copper.org/publications/pub_list/pdf/copper_tube_handbook.pdf))  
Vacuuming is preferred for dust. Do not use compressed air for cleaning. Recycle unused or scrap copper tube at a local scrap metal dealer.

## SECTION 7. HANDLING AND STORAGE

### NORMAL HANDLING

Avoid conditions which create fumes or fine dust. Use of approved respirators is required where adequate ventilation cannot be provided. Do not use copper tubing where incompatible materials may be present, (see section X).

### STORAGE

Avoid storage near incompatible materials, see Section 10.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Permissible Air Conc. (mg/m3)			
	OSHA		ACGIH
Dust	1.0		1.0
Fume	0.1		0.2

### ENGINEERING CONTROLS

Local exhaust is recommended for dust and/or fume generating operations where airborne exposure may exceed permissible air concentrations.

### PERSONAL HYGIENE

Avoid inhalation or ingestion. Practice good housekeeping and personal hygiene procedures. Showering is recommended if significant dust exposure occurs.

### SPECIAL: PRECAUTIONS/PROCEDURES/LABEL INSTRUCTIONS

No special precautions.

### LABEL SIGNAL WORD:

NOT APPLICABLE

### RESPIRATORY PROTECTION

Where airborne exposures may exceed OSHA/ACGIH permissible air concentrations, the minimum respiratory protection recommended is a negative pressure air purifying respirator with cartridges that are NIOSH/MSHA approved against dust, fumes, and mists having a TWA not less than 0.05 mg/m3

### EYES AND FACE

Safety glasses recommended when dust or shavings may exist.

### OTHER CLOTHING AND EQUIPMENT

Protective clothing is recommended to prevent burns during installation of tube or splattering of fluxes, solder or filler metals.

## SECTION 9. PHYSICAL/CHEMICAL PROPERTIES

### MATERIAL IS (AT NORMAL CONDITIONS)

Solid

### APPEARANCE AND ODOR

Yellow-red metal, various shapes and sizes.

### MELTING POINT (DEGREES C)

1083

### BOILING POINT (DEGREES C)

2595

### SPECIFIC GRAVITY (H2O = 1)

8.96

### VAPOR DENSITY (AIR = 1)

Not applicable

### SOLUBILITY IN WATER (% BY WT.)

Insoluble

### pH

Not Applicable

### VAPOR PRESSURE (mm Hg)

Not Applicable

### EVAPORATION RATE

Not Applicable

## SECTION 10. STABILITY AND REACTIVITY

### STABILITY

Stable

### CONDITIONS TO AVOID

Not Applicable



## **SECTION 15. REGULATORY INFORMATION**

### **WHMIS CLASSIFICATION, SARA REGULATION AND OTHER INFORMATION**

WHMIS does not classify this material

TSCA Status ----- On TSCA Inventory

Regulated under SARA Title III:

Sect. 302 ----- None

Sect. 311/312 ----- Immediate and Delayed

Sect. 313 Chemicals ----- Copper

CERCLA Reportable Quantity ----- 5,000 pounds for Copper Powder

Federal and State Regulations:

Pennsylvania RTK: Copper Massachusetts RTK: Copper TSCA 8(b) inventory: Copper CERCLA: Hazardous substances. Copper

WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

## **SECTION 16. OTHER INFORMATION**

**ISSUED DATE**

June 13, 2022

**SUPERSEDES**

August 15, 2013

### **PERMISSIBLE CONCENTRATION REFERENCE**

OSHA regulations for airborne contaminants 29 CFR 1910.1000 and 1018; ACGIH Threshold Limit Values for Chemical Substances

### **HAZARD INFORMATION REFERENCES**

*Documentation Up to date, curated data provided by Mathematica's ElementData function from Wolfram Research, Inc*

### **GENERAL**

*Copper Development Association, The Copper Tube Handbook,*

[https://www.copper.org/publications/pub\\_list/pdf/copper\\_tube\\_handbook.pdf](https://www.copper.org/publications/pub_list/pdf/copper_tube_handbook.pdf)

### **Notes**

No additional information.

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