



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 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)
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

Notes

No additional information.

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