



MATERIAL SAFETY DATA SHEET

MANUFACTURER INFORMATION

MANUFACTURER NAME & ADDRESS:

MUELLER COPPER TUBE COMPANY, INC.
404 Mueller Road
Fulton, MS 38843

MSDS INFORMATION:

870-238-3201

EMERGENCY CONTACT:

870-238-3201

PREPARED BY:

Chuck Blanton

DATE REVISED:

January 29, 2003

IDENTIFICATION

CHEMICAL NAME:

Copper

CAS NUMBER:

7440-50-8

TRADE NAME:

Copper Tubing

SPECIAL REGULATORY HAZARDS

HAZARDOUS COMPONENTS

OSHA PEL

ACGIH TLV

NIOSH

CANADA

CAS NO.

Cu (s) >99.9%

Fume 0.1 mg/m³
Dust 1.0 mg/m³

0.2 mg/m³
1.0 mg/m³

0.1 mg/m³
1.0 mg/m³

TWA 1 mg/m³
STEL 2 mg/m³

7440-50-8

(s) Denotes chemicals subject to reporting requirements of SARA Title III, Section 313.

PHYSICAL DATA

APPEARANCE AND ODOR:

Red, tubular shape; negligible to no odor

SOLUBILITY:

Insoluble

VAPOR PRESSURE (mm Hg):

N/A

MELTING POINT (°C):

1083

VAPOR DENSITY (AIR = 1):

N/A

BOILING POINT (°C):

2567

EVAPORATION RATE (Butyl Acetate = 1):

N/A

SPECIFIC GRAVITY (H₂O = 1):

8.94

FIRE & EXPLOSION HAZARD DATA

FLASH POINT:

N/A

AUTOIGNITION TEMP:

N/A

EXTINGUISHING MEDIA:

No specific agents recommended.

FLAMMABLE LIMITS:

N/A (LEL): N/A

UNUSUAL HAZARDS:

N/A

(UEL): N/A

SPECIAL FIRE FIGHTING PROCEDURES:

Recommend NIOSH / MSHA approved self-contained breathing apparatus and full protective clothing be worn.

REACTIVITY DATA

STABILITY: ☒ Stable ☐ Unstable

INCOMPATIBILITY (Materials to Avoid): Contact with 52% hydrogen peroxide may cause a violent reaction. Contact with acetylene may form acetylides. Incompatible with 1-bromo-2-propyne. Liquid copper explodes on contact with water.

DECOMPOSITION PRODUCTS: At temperatures above boiling point, metal oxide fumes may be evolved.

HAZARDOUS POLYMERIZATION: ☐ May Occur ☒ Will Not Occur

SPECIAL PROTECTION INFORMATION

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

ENGINEERING CONTROLS: Local exhaust ventilation is recommended for control of airborne dust, fumes and vapors in confined areas.

PERSONAL PROTECTION EQUIPMENT: Gloves are recommended when exposed to dust. Approved safety glasses are recommended.

OTHER PROTECTIVE CLOTHING/EQUIPMENT: Protective clothing for heavy dust exposure. Contaminated clothing should be removed before leaving plant.

SPECIAL WORK / HYGIENIC PRACTICES: Avoid inhalation or ingestion. Practice good housekeeping and personal hygiene. If significant dust accumulation occurs, a shower is recommended.

STORAGE, SPILLS & DISPOSAL INFORMATION

STORAGE: General storage procedures are acceptable. Avoid activities that generate fumes or dust.

SPILLS: Any method that maintains minimal dust levels is acceptable. Vacuuming is preferred for removal of dust. Do not use compressed air for cleaning. Use approved respiratory protection when exposed to dust or fumes.

DISPOSAL: Dispose of in accordance with state, local and federal regulations.

HEALTH RELATED DATA

ACUTE	INHALATION & INGESTION:	Dust/Fumes can cause Metal Fume Fever, chills, nausea, chest tightness, metallic taste and irritation of gastrointestinal tract.
	EYE CONTACT:	Small particles may cause irritation.
	SKIN CONTACT:	N/A
CHRONIC	INHALATION & INGESTION:	N/A
	EYE CONTACT:	N/A
	SKIN CONTACT:	Exposure to copper dust and fumes can cause skin and hair discoloration.
FIRST AID	INHALATION:	Remove to fresh air. If not breathing, begin artificial respiration. If experiencing difficulty with breathing, give O ₂ . Get medical attention immediately.
	INGESTION:	Give 4 - 8 ounces of milk or water to conscious individual and induce vomiting. Get medical attention immediately.
	EYE CONTACT:	Flush with water. If irritation develops, get medical attention.
	SKIN:	Wash with soap and water. If irritation develops, get medical attention.

CARCINOGENICITY: NTP? ☐ Yes ☒ No IARC Monographs? ☐ Yes ☒ No OSHA Regulated? ☐ Yes ☒ No

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Persons with Wilson's Disease are at an increased risk.

SARA TITLE III HAZARD CATEGORIES & LISTINGSSARA III LISTINGS

Section 302, Extremely Hazardous Substance (Section 304, Reportable): No

CERCLA, Hazardous Substances (Section 304, Reportable): Yes

Section 313, Toxic Chemicals: Yes

CATEGORIES

Health Hazard: No
Chronic Hazard: No
Fire Hazard: No
Pressure Hazard: No
Reactivity Hazard: No

HMIS RATINGS

Health: 0
Flammability: 0
Reactivity: 0

CODES USED: N/A = Not Applicable N/E = Not Established

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