

Material Safety Data Sheet



Copper

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Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150

CAROLINA
www.carolina.com

Section 1 - Product Description

Product Name: Copper

Product Code(s): 85-5420, 85-5430, 85-5460, 85-5490, 85-5496, 85-5530, 85-5560, 85-5578, 85-5580, 85-5590, 84-0932, 84-0101, 95-7500, 84-0560, 84-0555, C71346, C71023, C71907

Size: Various

Chemical Name: Copper metal

CAS Number: 7440-50-8

Formula: Cu

Synonyms: Bronze powder, C.I. 77400; Arwood Copper

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) **Chemtrec** 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard Identification

Emergency Overview: Avoid contact with clothing. Avoid contact with skin and eyes.

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Copper (CAS# 7440-50-8) 90-100%

TLV units: ACGIH-TLV: 1 mg(Cu)/m³ (TWA)

PEL units: OSHA-PEL: 1 mg(Cu)/m³ (TWA)

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, wash immediately with plenty of ... (Water, unless specified as water-reactive).

Ingestion - If swallowed, rinse mouth with water (only if the person is conscious). If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): N/A

NFPA Rating:

Health: 0

Fire: 0

Reactivity: 0

Extinguisher Media: Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A

Autoignition Temperature: N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Avoid Dusting. May become explosive when dispersed in air.

Section 6 - Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Keep container tightly closed in a cool, well-ventilated place.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes

Mechanical(General): Yes

Special: No

Other: No

Protective Gloves: Natural rubber, Neoprene, PVC or equivalent.

Eye Protection: Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: 63.55

Boiling Point: 2595 °C

Vapor Density(Air=1): N/A

Percent Volatile by Volume: 0%

Solubility in Water: Practically Insoluble

Melting Point: 1083 °C

Vapor Pressure: N/A

Specific Gravity (H₂O=1): 8.94

Evaporation Rate (BuAc=1): N/A

Appearance and Odor: Red Metal, odorless

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: Avoid dusting.

Heat and sources of ignition.

Incompatibility (Materials to Avoid): Acetaldehyde, Acetylene, Metals, Bases, Oxidizers, Acids,

Hazardous Decomposition Products: Metal Fumes,

Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

Toxicity Data: N/A

Effects of Overexposure:

Acute: See Section 2

Chronic: Tumorigenic data cited. Reproductive data cited. Not listed as a carcinogen by IARC, NTP or OSHA.

Conditions Aggravated by Overexposure: N/A

Target Organs: Kidneys, Liver, Skin, Respiratory system,

Primary Route(s) of Entry: Inhalation, ingestion, eye or skin contact.

Section 12 - Ecological Data

EPA Waste Numbers: N/A

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name: N/A

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List:

Copper - Yes

Chemical Category:

Copper - Yes

CERCLA Section 103 RQ(lb.): Copper - 5000 lbs

RCRA Section 261.33: Copper - No

Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL	Permissible Exposure Limit
ppm	Parts per million
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act