



Safety Data Sheet

COPPER

SECTION 1: PRODUCT DESCRIPTION

PRODUCT IDENTIFIER

Product form: Solid
Product Name: Copper
Formula: Cu
Synonyms: N/A

SUPPLIER

NATHAN TROTTER & COMPANY
241 W. STEWART HUSTON DRIVE
COATESVILLE, PA 19320
PH. 610-524-1440
FX. 610-524-2496

INTENDED USE OF PRODUCT

Use: Industrial; professional use only

EMERGENCY TELEPHONE NUMBER

CHEMTEL 24 HR Emergency number: 1-800-255-3924

SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Not a dangerous substance according to GHS classification criteria.

No known OSHA hazards.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE

Name	Product Identifier	%	Classification (GHS-US)
Copper, Metal	7440-50-8	100	N/A

SECTION 4: FIRST AID MEASURES

General First-aid Measures: Never give an unconscious person anything by mouth. If you feel unwell, seek medical attention. (show label when possible)

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

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

SKIN CONTACT: After contact with skin, wash immediately with plenty of water. **Molten Metal:** Flush contact area to solidify and cool but do not attempt to remove encrusted material or clothing. Cover burns and seek medical attention immediately.

SECTION 5: FIRE FIGHTING PROCEDURES

EXTINGUISHING MEDIA: Use media suitable to extinguish surrounding fire.

FIRE FIGHTING METHODS AND PROTECTION: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

FIRE AND/OR EXPLOSION HAZARDS: Avoid Dusting. May become explosive when dispersed in air.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, Carbon monoxide.

SECTION 6: SPILL OR LEAK MEASURES/PROCEDURES

STEPS TO TAKE IN CASE MATERIAL IS RELEASED OR SPILLED:

No adverse health effects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this SDS.

No special spill clean-up considerations. Collect and discard in regular trash.

SECTION 7: HANDLING AND STORAGE

HANDLING: Do not ingest or take internally.

STORAGE: Keep container tightly closed in a cool, well-ventilated place.

STORAGE CODE: Green - general chemical storage.

SECTION 8: PROTECTION INFORMATION

CHEMICAL NAME: Copper, METAL

<u>TWA</u>	<u>ACGIH</u>	<u>STEL</u>	<u>TWA</u>	<u>OSHA PEL</u>	<u>STEL</u>
0.2 MG/M3		N/A	0.1 mg/m3		N/A

CONTROL PARAMETERS/ ENGINEERING MEASURES: No exposure limits exist for the constituents of this product. General room ventilation is required to maintain operator comfort under normal conditions.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Lab coat, apron, eye wash, safety shower.

RESPIRATORY PROTECTION: No respiratory protection required under normal conditions of use. Respiratory protection may be required in addition to ventilation depending upon conditions of use.

EYE PROTECTION: Wear chemical splash goggles when handling this product. Have an eye wash station available.

SKIN PROTECTION: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

SECTION 9: PHYSICAL DATA

FORMULA: Cu

FREEZING POINT: No data available

MOLECULAR WEIGHT: 63.55

FLAMMABILITY: No data Available

APPEARANCE: Metallic Red– Orange

FLASH POINT: No data available

ODOR: No data available

AUTO IGNITION TEMPERATURE: No data available

PHYSICAL STATE: Solid

DECOMPOSITION TEMPERATURE: No data available

pH: No data available

VAPOR PRESSURE: 0 hPa at 1400°C

MELTING POINT: 1083°C

SPECIFIC GRAVITY: 8.94 (Water = 1)

BOILING POINT: 2595°C

RELATIVE VAPOR DENSITY AT 20°C

SECTION 10: REACTIVITY DATA

REACTIVITY: No data available.

CHEMICAL STABILITY: Stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

CONDITIONS TO AVOID: None known. Avoid creating and inhaling dust. Keep away from oxidizing materials and strong acids. Store in a cool dry place. Isolate from incompatible material.

INCOMPATIBLE MATERIALS: Strong acids and strong oxidizers.

SECTION 11: TOXICITY DATA

ROUTES OF ENTRY: Inhalation and ingestion.

SYMPTOMS (ACUTE): Reproductive systems

DELAYED EFFECTS: No data available

ACUTE TOXICITY:

CHEMICAL NAME:	CAS NUMBER	ORAL LD50	DERMAL LD50	INHALATION LC50
Copper, Metal	7440-50-8	>5000 mg/kg	N/A	N/A

CARCINOGENICITY:

CHEMICAL NAME:	CAS NUMBER	IARC	NTP	OSHA
Copper, Metal	7440-50-8	N/A	N/A	N/A

CHRONIC EFFECTS:

MUTAGENICITY: No evidence of a mutagenic effect.

TERATOGENICITY: No evidence of a teratogenic effect (Birth defect)

SENSITIZATION: No evidence of a sensitization effect.

REPRODUCTIVE: No evidence of negative reproductive effects.

TARGET ORGAN EFFECTS:

ACUTE: N/A

CHRONIC: N/A

SECTION 12: ECOLOGICAL DATA

OVERVIEW: This material is not expected to be harmful to the ecology.

MOBILITY: N/A

PERSISTANCE: N/A

BIOACCUMULATION: N/A

DEGRADABILITY: Naturally occurring element. Does not biodegrade.

OTHER ADVERSE EFFECTS: N/A

CHEMICAL NAME:	CAS NUMBER	ECO TOXICITY
COPPER, METAL	7440-50-8	Not available

SECTION 13: DISPOSAL INFORMATION

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

WASTE DISPOSAL CODE(S): Not determined

SECTION 14: TRANSPORT INFORMATION

GROUND– DOT PROPER SHIPPING NAME:

Not regulated for transport by US DOT.

AIR– IATA PROPER SHIPPING NAME:

Not regulated for air transport by IATA.

SECTION 15: REGULATORY INFORMATION

TSCA STATUS: All components in this product are on the TSCA Inventory.

CHEMICAL NAME:	CAS NUMBER	§ 313 NAME	§ 313 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Copper, Metal	7440-50-8	Copper	No	No	No	No

SECTION 16: ADDITIONAL INFORMATION

REVISED: MAY 2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Nathan Trotter & Co. Inc. 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.

GLOSSARY:

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Service Number

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: U.S. Department of Transportation

IARC: International Agency for Research on Cancer

N/A: Not Available

IDLH: Immediately dangerous to life and health

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