



# 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

CHEMTREC 24 HR Emergency number: 1-800-424-9300  
INTERNATIONAL CHEMTREC call: 1-703-527-3887

### 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:**

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

**CARCINOGENICITY:**

<b>CHEMICAL NAME:</b>	<b>CAS NUMBER</b>	<b>IARC</b>	<b>NTP</b>	<b>OSHA</b>
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

<b>CHEMICAL NAME:</b>	<b>CAS NUMBER</b>	<b>ECO TOXICITY</b>
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