

SCM = SUPER CONDUCTOR MATERIALS, INC. =

Chemtrec: (800) 424-9300
Poison Center: (800) 562-8236

MATERIAL SAFETY DATA SHEET

Identity: **Copper**

Formula: Cu

Section I - General Information

Manufacturer: Super Conductor Materials, Inc.

The information below is believed to be accurate and represents the best information available to Super Conductor Materials, Inc. However, SCM makes no warranty, expressed or implied with respect to such information and we assume no liability resulting from its use.

Section II - Hazardous Ingredients/Identity Information

Copper	
Concentration %	100
CAS/NA or UN #	7440-50-8
Exposure Limits	ACGIH-TLV: 1mg/m ³

Section III - Fire and Explosion Hazard Data:

Flammability Yes Under what conditions? Slight for fine powder.
Means of extinction: Dolomite, graphite, MET-L-X. Do not use water. Wear a self-contained breathing apparatus and full protective clothing to prevent contact.

Section IV - Reactivity Data

Stability: Stable

Conditions to Avoid: None

Incompatibility - Materials to Avoid: Strong oxidizing materials, strong acids, Peroxides, Magnesium, Acetylene, Halogens.

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Section V - Health Hazard Data

Acute Exposure:

Skin: Repeated skin contact has been reported to cause hardening of the hands. Fine powders are fine irritants. Causes dermatitis.

Ingestion: May cause G.I. Disturbances, vomiting usually occurs promptly. Chronic exposure may damage brain tissue, liver, and kidneys.

Inhalation: Fumes and dust can cause irritation to the respiratory tract, metallic taste in mouth, nausea and fevers. May cause nasal congestion.

Emergency and First Aid - In case of eye contact, flush eyes with lukewarm water for 15 minutes, and seek medical attention. In case of skin contact, brush material off skin. Wash affected area with soap and water, seek medical attention. In case of inhalation, remove victim to fresh air, administer oxygen if breathing is difficult, and seek medical attention. In case of ingestion, do induce vomiting. Give large quantities of milk or water. Contact a physician.

Section VI - Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Wear appropriate respiratory and protective equipment specified in section VII - control measures. Isolate spill area, provide ventilation and extinguish sources of ignition. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Take care not to raise dust. Use non-sparking tools.

Waste disposal method: Dispose of in accordance with state, local, and federal regulations.

Hazard Label Information: Store in cool, dry area. Store in tightly sealed container. Wash thoroughly after handling.

Section VII - Control Measures

Protective Equipment Summary - Hazard Label Information:

NIOSH/MSHA approved respirator, Impervious gloves, Safety glasses, clothes to prevent skin contact.

Respiratory Protection (Specify Type) - NIOSH - approved dust respirator.

Ventilation: Local Exhaust: To maintain concentration at low exposure levels.

Mechanical (General): Recommended.

Protective Gloves: Rubber gloves. *Eye Protection:* Safety glasses.

Other Protective Clothing or Equipment: Protective gear suitable to prevent contamination.

Work Hygienic/Maintenance Practices: Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.