

# Material Safety Data Sheet - Copper



**CAMBRIDGE-LEE INDUSTRIES, INC.**

Reading Tube Division

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## Section I Name and Product

<b>Manufacturer's Name</b> Cambridge-Lee Industries, Reading Tube Division	<b>Contact</b> William Rissmiller, EHS Manager
<b>Address (Street, City, State and Zip Code)</b> 86 Tube Drive, Reading, PA 19605	<b>Emergency Telephone No.</b> 610-926-4141
<b>Trade Name, Common Name or Specification</b> Copper (Tubing-Industrial)	<b>Date</b> March 23, 2001
<b>Chemical Family or Product Type</b>	

## Section II Composition

Chemical Name	Weight %	Common Name	Reg* (Y/N)	CAS#		ACGIH TLV	Carcinogen* (Y/N)
Copper	99.9+			7440-50-8	Dust - 1.0	1.0	N
					Fume - 0.1	0.2	

\*Materials are regulated by OSHA 29 CFR 1910.1200. Hazard Communication Standard.

## Section III Physical and Chemical Data

<b>Boiling Point</b> 2595°C	<b>Melting Point</b> 1083°C	<b>Specific Gravity</b> 8.96
<b>Vapor Pressure</b> 1mm@ 1628°C	<b>Percent Volatile By Vol.</b> N/A	<b>Vapor Density</b> N/A
<b>Evaporation Rate</b> N/A	<b>Solubility in Water</b> Insoluble	<b>Solubility in Alcohol</b> N/A
<b>Solubility in Other Solvent</b> N/A	<b>Appearance and Odor</b> Reddish - yellow metal, odorless, various shapes	

## Section IV Fire and Explosion Hazard Data

<b>Flash Point</b> N/A (Method Used)	<b>Flammable Limits LEL</b> N/A <b>UEL</b> N/A
<b>Extinguishing Media</b> Powdered dolomite, sodium chloride (salt) graphite or approved dry powder	
<b>Special Fire Fighting Procedures</b> Do not use water, copper solid forms (tubing, cathode, billets) are not flammable or explosive.	
<b>Explosion Potential</b> Fine copper powder is a moderate fire hazard. In the presence of halogenates, copper powder may be explosive with heat, percussion, or friction. See Section VI.	

## Section V Health, First Aid and Medical Data

Primary Route(s) of Entry	Acute and Chronic Health Effects and Effects of Overexposure	First Aid and Medical Information
<b>Inhalation</b>	Acute: Metal fume fever. Symptoms: Chills, fever, aching muscles, dry mouth and throat, headache, nausea, vomiting, diarrhea. Onset may be delayed several hours.	Seek medical assistance. Remove to fresh air, administer oxygen and CPR, if needed.
<b>Ingestion</b>	Chronic: No long-term effects	Seek medical assistance. Induce vomiting, if conscious.
<b>Skin Contact &amp; Absorption</b>	N/A	N/A
<b>Eye</b>	Fragments in cornea may cause cataracts.	Seek medical assistance. Use copious water, particles must be removed.
<b>Other Potential Health Risks</b>	None known	N/A

## Section VI Corrosivity and Reactivity Data

**Stability**Unstable  Stable **Polymerization** May Occur  Will Not Occur **Incompatibility (Materials to Avoid)**

Reacts violently with acetylene, hydrogen peroxide, gaseous chlorine, ammonia nitrate, bromates, chlorates, hydrogen sulfides, lead azide, hydrazine.

**Decomposition Products**

Copper does not decompose

**Conditions To Be Avoided**

High temperatures that could result in fumes.

## Section VII Storage, Handling and Use Procedures

**Normal Storage and Handling**

Avoid storage near incompatible materials. See Section VI

**Normal Use**

Avoid conditions which create fumes or fine dusts. Do not use where incompatible materials, see Section VI, may be present.

**Steps To Be Taken In Case Of Leaks Or Spills**

Confine and contain spill. Use vacuum or other appropriate methods for pickup which minimizes dust.

**Waste Disposal Method**

Recycle or dispose of in accordance with Federal or State regulations.

## Section VIII Personal Protection Information Storage, Handling and Use Procedures

**Respiratory Protection (Specify Type)**

Use NIOSH-approved dust/fume respirator for dust or fume.

**Ventilation****Local**

YES, when necessary to maintain exposure below specified limits.

**Mechanical (General)**

YES, when appropriate.

**Other**

Not required.

**Protective Gloves**

Not expected to be required during normal use.

**Eye Protection**

Safety Glass recommended when dust, shavings exists.

**Other Protection**

Not expected to be required during normal use.

**Measures To Be Taken During Repair And Maintenance Of Contaminated Equipment That Has Been In Contact With This Material**

Avoid generating fume or dusts.

## Section IX Special Precautions

**Precautions To Be Taken In Handling And Storage**

**Other Precautions** Avoid inhalation or ingestion. Practice good housekeeping and personal hygiene procedures. The user should take precautions to limit airborne dust created with the use of this product.

## For Company Use

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof; however, Cambridge-Lee Industries makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.

\*\*NAIF = No Applicable Information Found \*\*\*N/A = Not Applicable

Section 313 Supplier Notification - This product contains toxic chemicals, note Section II above, that are subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 and 40CFRS372.