

QUICKCABLE

Material Safety Data Sheet (MSDS)

Description: Copper Thimble

Part Number: 7430

SECTION I CONTACT INFORMATION		
<p>Date: 07/2013 Emergency Telephone 1-800-468-1263 (Infotrac) Quick Cable Corporation 3700 Quick Drive Franksville, WI 53126</p>		
<p>Quick Cable Product ID: 7430 Telephone: 1-800-558-8667</p>		
SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION		
Component	CAS #	%
Copper	74440-50-8	99.8 – 99.99
<p>Note: This MSDS applies to a range of alloys. For actual compositions refer to material test report or specific alloy specification. All percentages are weight.</p>		
SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS		
<p>Appearance and Odor: Salmon-colored, lustrous metal Odor: none PH: Not applicable Vapor Density (Air = 1): Not Applicable Evaporation Rate: Not Applicable Solubility in Water: Not Applicable Melting Point: 1,981°F</p>	<p>Physical State: Solid Vapor Pressure: Not applicable Percent Volatile: Not applicable Specific Gravity: 8.9 Density, LB/IN(3): 0.3230</p>	
SECTION IV FIRE AND EXPLOSION HAZARD DATA		
<p>Flash Point: Not applicable Autoignition Temperature: Not applicable Suitable Extinguishing Media: Use extinguishing media appropriate to the surrounding material.</p>	<p>Lower Explosive Limit (%): None Upper Explosive Limit (%): None Special Firefighting Instructions: Copper alloy products in the solid state present no fire or explosion hazard, but may react with strong acids, bases, or oxidizing agents.</p>	
SECTION V REACTIVITY DATA		
<p>Chemical Stability: Stable Conditions to Avoid: None Incompatible Materials: Mercury, ammonia, acetylene acids. Contact with strong acids, bases, or oxidizing agents. Hazardous Decomposition Products: Metallic dust or fumes may be produced during welding, burning, grinding, and machining. Possibility of Hazardous Reactions: Will not occur.</p>		
SECTION VI		

HEALTH HAZARD DATA

Emergency Overview: Copper alloy products in the natural state do not present a hazard for emergency response personnel.

Potential Health Effects: Copper alloy products in the natural state do not present an inhalation, ingestion, or contact hazard. However, operations such as burning, welding, sawing, brazing, or grinding may release fumes and/or dusts which may present health hazards if occupational exposure limits are exceeded.

Likely Routes of Exposure: Inhalation, Eye Contact, Skin Contact

Inhalation: Short-term exposure to fumes/dust may produce irritation of the respiratory system. High concentrations of copper oxide fumes may cause metal fume fever

Eye: Short-term exposure to fumes/dust may produce irritations

Skin: Repeated or prolonged exposure to copper dusts or mists may cause irritant or allergic contact dermatitis

Ingestion: Abdominal pain, nausea, vomiting.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Exposure to fumes or dust may aggravate existing respiratory disease or dermatitis

Target Organs: Upper Respiratory tract, eyes, skin

Signs and Symptoms: Metal Fume fever – Metallic taste in mouth, dryness, and irritation of the throat, and influenza-like symptoms. The effects may be delayed.

Carcinogenicity:

Component	ACGIH	IARC	NTP
Copper (fume, dusts & mists)	No	No	NO

See Toxicological Information (Section 9)

Potential Environmental Effects:

None Known Product has not been tested for environmental properties

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

Handling: In welding, precautions should be taken for airborne contaminants that may originate from components of the welding rod.

Accidental Release Measures: Steps to be taken in the event of spills, leaks or releases: Not Applicable

First Aid Measures:

Inhalation: If exposed to excessive levels of metal fumes, remove to fresh air. Seek medical attention.

Eye: Flush with water for at least 15 minutes.

Skin: Wash with soap and water.

SECTION VIII CONTROL MEASURES

Exposure Guidelines

Component	OSHA PEL TWA	ACGIH® TLV® TWA
Copper dust, mist	1.0 mg/m ³	1.0 mg/m ³
Copper fume	0.1mg/m ³	0.2 mg/m ³

Engineering Controls: Local exhaust ventilation should be utilized when welding, burning, sawing, brazing, grinding, or machining when exposure exceeds occupational exposure limits

Eye Protection: Safety glasses or goggles should be utilized as required by exposure. Other protective equipment should be utilized as required

Skin Protection: Wear appropriate personal protective clothing to prevent skin contact with copper dusts and mists.

Respiratory Protection: NIOSH-approved dust or fume respiratory should be used to avoid excessive inhalation of particulates when exposure exceeds occupational exposure limits.

Other Preventative Measures: Do not eat, drink, or smoke during work. Wash hands before eating or smoking.

SECTION IX OTHER REGULATORY INFORMATION

Acute Toxicity Data For Components

Copper: TDLo: 120ug/kg (human, oral – gastrointestinal effects)
LD50: 0.07 mg/kg (mouse, intraperitoneal)

DISPOSAL CONSIDERATIONS**Waste Disposal Methods:**

According to local, state and federal regulations

TRANSPORT INFORMATION

Not Applicable

REGULATORY INFORMATION**Global Inventories****COPPER**

TSCA – United States Included

DSL – Canada Included

EINECS – European Union Included

SARA Title III Section 302 EXTREMELY HAZARDIY SUBSTANCES (40 CFR 355):

These alloys are not regulated under Section 302 of SARA and 40 CFR 355.

SARA TITLE III SECTION 311/312 HAZARDOUS CATEGORIZATION (40 CFR 370):

OSHA defines these alloys as hazardous 29 CFR 1910.1200 (d)

SARA TITLE III SECTION 313 TOXIC CHEMICALS (40 CFR 372):

These alloys may contain the following toxic chemical(s) subject to reporting requirements under this section of SARA and of 40 CFR 372:

Component	CAS#	% BY Weight
Copper	7440-50-8	≥ 99.8

Other Lists

Chemical Name	CA PROP 65 Chemical	MA Toxic Substance List	MI Critical Materials Register	NJ Hazardous Substances List	PA Right to Know List
Copper	NO	Yes	Yes	Yes	Yes

OTHER INFORMATION:**REFERENCES:**

ACGIF® Threshold Limit Values (TLV®) (2004)

Agency for Toxic Substances and Disease Registry (ATSDR)

- Toxicological Profile for Copper, September 2002

Chronic Effects:

Repeated or prolonged overexposure to copper fume may cause the skin and hair to change color.

This information is accurate to the best of Quick Cable Corporation's knowledge or obtained from sources believed by Quick Cable to be accurate. Before using this product, read all warnings and directions on the label.