

# SAFETY DATA SHEET

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1 Product identifiers

Product name	Copper
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CAS number 7440-50-8

- Synonyms No information available.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals

## **1.3** Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

### 1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Based on available data, the classification criteria are not met.

### 2.2 GHS Label elements, including precautionary statements

Pictogram None.

Signal Word None.

Hazard statements No information available.

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS** No information available.

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Copper	-	7440-50-8	100%

#### **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

**General advice** 

If inhaled	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.
In case of skin contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
If swallowed	Do not induce vomiting. Obtain medical attention.

- **4.2 Most important symptoms and effects, both acute and delayed** No information available.
- **4.3** Indication of any immediate medical attention and special treatment needed Treat symptomatically.

# **SECTION 5: Firefighting measures**

5.1	Extinguishing media	
	Suitable extinguishing media	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.
	Unsuitable extinguishing media	No information available.

5.2 Specific hazards arising from the substance or mixture

Non-combustible. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Hazardous combustion products: copper oxides.

### 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 5.4 Further information

Flash Point	No information available
Autoignition Temperature	No information available
Explosion limits Upper	No data available

Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge NFPA Health Flammability Insta No data available No data available No information available No information available

# FlammabilityInstabilityPhysical hazards00N/A

#### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eye and clothing.

### 6.2 Environmental precautions

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Avoid release to the environment. See section 12 for additional ecological information.

**6.3 Methods and materials for containment and cleaning up** Sweep up or vacuum up spillage and collect in suitable container for disposal.

#### 6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

### **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

#### Precautions on safe handling

Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eye and clothing. Avoid ingestion and inhalation.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

# 7.2 Conditions for safe storage, including any incompatibilities

#### **Storage conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place.

#### Incompatibilities

No information available.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Туре	Value
	(Vacated) TWA	0.1 mg/m3
Copper	TWA	0.1 mg/m3
	TWA	1 mg/m3

#### **US. ACGIH Threshold Limit Values**

Component	Туре	Value
Copper	TWA	0.2 mg/m3

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

Component	Туре	Value
	IDLH	100 mg/m3
Copper	TWA	0.1 mg/m3
	TWA	0.1 mg/m3

#### **Biological occupational exposure limits**

No information available

### 8.2 Exposure controls

### Appropriate engineering controls

Ensure adequate ventilation, espicially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protective equipment

### **Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Respiratory protection**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### **Control of environmental exposure**

No information available.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical State	Solid
Appearance	Red brown
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	1083 °C / 1981.4 °F
Boiling Point/Range	2595 °C / 4703 °F
Evaporation Rate	No information available
Flammability (solid)	No information available
Flammability or explosive limit	
Upper	No data available
Lower	No data available
Vapor Pressure	1 mmHg @ 1628 °C
Vapor Density	No information available
Density	8.92
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temp	No information available
Decomposition Temp	No information available
Viscosity	No information available
Molecular Formula	Cu
Molecular Weight	63.54
VOC Content(%)	No information available
Oxidizing properties	No information available

# 9.2 Other safety information

No information available.

#### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

None known, based on information available.

# 10.2 Chemical stability

Stable under normal conditions.

**10.3 Possibility of hazardous reactions** None under normal processing.

# **10.4 Conditions to avoid** Incompatible products, excess heat.

- **10.5 Incompatible materials** Strong oxidizing agents.
- **10.6 Hazardous decomposition products** Copper oxides.

### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Product Information, Component Information**

**Acute toxicity** No acute toxicity information is available for this product.

#### Skin corrosion/irritation

No information available

#### Serious eye damage/eye irritation

No information available

#### Respiratory or skin sensitization

No information available

#### Germ cell mutagenicity

No information available.

#### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Copper	7440-50-8	Not listed				

#### Specific target organ toxicity - single exposure

None known

#### Specific target organ toxicity - repeated exposure

None known

#### **Reproductive toxicity**

No information available

# Chronic effects

No information available

# 11.2 Additional Information

No information available

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Product		Species	Test Results
Copper	EC50	Freshwater Algae	0.031 - 0.054 mg/L 96h
	EC50	Freshwater Algae	0.0426 - 0.0535 mg/L 72 h
	LC50	Freshwater Fish	0.112 mg/L 96h
	LC50	Freshwater Fish	0.8 mg/L 96h
	LC50	Freshwater Fish	0.3 mg/L 96h
	LC50	Freshwater Fish	1.25 mg/L 96h
	LC50	Freshwater Fish	0.052 mg/L 96h
	LC50	Freshwater Fish	0.2 mg/L 96h
	LC50	Freshwater Fish	0.0068 - 0.0156 mg/L 96h
	EC50	Water Flea	0.03 mg/L 48h

# 12.2 Persistence and degradability

No information available

# 12.3 Bio accumulative potential

No information available

# 12.4 Mobility in soil

No information available

# 12.5 Results of PBT and vPvB assessment

No information available

#### **12.6 Endocrine disrupting properties** No information available.

### 12.7 Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

# 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

#### **SECTION 14: Transport information**

**DOT (US)** Not regulated

IMDG Not regulated

IATA Not regulated

#### **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4) Listed, 5000 lb.

SARA 304 Emergency release notification Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Not listed.

SARA 313 (TRI reporting) Listed, Weight: 100%. Threshold Values %: 1.0

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Safe Drinking Water Act Listed, Toxic Pollutants, Priority Pollutants.

# FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed

#### **US state regulations**

- US. Massachusetts RTK Substance List Listed.
- US. New Jersey Worker and Community Right-to-Know Act Listed.

# US. Pennsylvania Worker and Community Right-to-Know Law Listed.

California Proposition 65 Not listed

# **SECTION 16: Other information**

Issue date: 01/08/2015 Revision 1: 08/22/2024

# **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.