

Material Safety Data Sheet



CUPRIC OXIDE

Revised: 11/18/2011

Replaces: 10/13/2011

Printed: 08/10/2012

Carolina Biological Supply Company

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Section 1 - Product Description

Product Name: Cupric Oxide

Product Code(s): 85-6488, 85-6500

Size: 100 g, 125 g

Chemical Name: Cupric Oxide

CAS Number: 1317-38-0

Formula: CuO

Synonyms: Black copper oxide, Copper II oxide

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) **Chemtrec** 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard Identification

Emergency Overview: Harmful by inhalation and if swallowed.

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Cupric Oxide (CAS#1317-38-0) 100%

TLV units: ACGIH-TLV 0.05 mg(Cu)/m³ (TWA)

PEL units: OSHA-PEL 0.1 mg(Cu)/m³ (TWA)

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, wash immediately with plenty of water.

Ingestion - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. If swallowed, rinse mouth with water (only if the person is conscious).

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): N/A

NFPA Rating:**Health:** 2**Fire:** 1**Reactivity:** 0**Extinguisher Media:** Use media suitable to extinguish surrounding fire.**Flammable Limits in Air % by Volume:** N/A**Autoignition Temperature:** N/A**Special Firefighting Procedures:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.**Unusual Fire and Explosion Hazards:** Reacts violently with water.

Heating may cause an explosion.

Keep away from ... (incompatible materials to be indicated by the manufacturer).

Section 6 - Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Keep container dry.

After contact with skin, wash immediately with plenty of water. Keep container tightly closed in a cool, well-ventilated place.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.**Ventilation:****Local Exhaust:** Yes**Mechanical(General):** Yes**Special:** No**Other:** No**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent.**Eye Protection:** Splash proof chemical safety goggles should be worn.**Other Protective Clothing or Equipment:** Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: 79.55**Boiling Point:** N/A**Vapor Density(Air=1):** 2.75**Percent Volatile by Volume:** N/A**Solubility in Water:** Practically Insoluble**Melting Point:** 1026 °C (Decomposes)**Vapor Pressure:** N/A**Specific Gravity (H₂O=1):** 6.4 at 20 °C**Evaporation Rate (BuAc=1):** N/A**Appearance and Odor:** Odorless black solid.

Section 10 - Reactivity Data

Stability: Stable**Conditions to Avoid:** Heat and sources of ignition.

Moisture; Product is hygroscopic.

Incompatibility (Materials to Avoid): Alkalis, Monoammonium Phosphate, Metals, Hydrazine, Acids, Metal carbides, Boron,**Hazardous Decomposition Products:** Metal Fumes,**Hazardous Polymerization:** Will not occur

Section 11 - Toxicity Data

Toxicity Data: orl-rat LD50 470 mg/kg

Effects of Overexposure:**Acute:** See Section 2**Chronic:** Not listed as a carcinogen by IARC, NTP or OSHA.**Conditions Aggravated by Overexposure:** Respiratory disorders,**Target Organs:** Respiratory system,**Primary Route(s) of Entry:** Inhalation.

Section 12 - Ecological Data

EPA Waste Numbers: N/A

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name: N/A

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory**Hazard Category for SARA Section 311/312 Reporting:** Acute**Name List:**

Cupric Oxide - No

Chemical Category:

Cupric Oxide - No

CERCLA Section 103 RQ(lb.): Cupric Oxide - No**RCRA Section 261.33:** Cupric Oxide - No

Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply 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. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists
CAS Number	Chemical Services Abstract Number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DOT	U.S. Department of Transportation
IARC	International Agency of Research on Cancer
N/A	Not Available
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