



Hummel Croton Inc.  
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In Case Of Emergency Call Chemtrec®  
(U.S.) (800) 424-9300  
(International) (703) 527-3887

## Cuprous Oxide Safety Data Sheet

### 1. Product and Company

Product name: Cuprous Oxide  
Synonym: Red Copper Oxide, Purple Copper Oxide  
CAS-No.: 1317-39-1  
Company: Hummel Croton Inc.  
10 Harmich Rd.  
South Plainfield, NJ 07080  
Telephone: 908-754-1800  
Fax: 908-754-1815

HMIS Rating	
Health	1
Flammability	0
Reactivity	0
Personal Protection	E

Emergency telephone number

Emergency Phone #: Chemtrec US: 800-424-9300  
Chemtrec International: 703-527-3887

### 2. Hazards

GHS Classification Acute toxicity, Oral (Category 4), H302

#### GHS Label elements

Pictogram(s)



Signal word **WARNING**

Hazard statement(s)

H302 Harmful if swallowed.

Precautionary statement(s)

P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.  
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS

None.

### 3. Composition/Ingredients

Substance  
Formula:  $\text{Cu}_2\text{O}$   
Molecular weight: 143.09 g/mol  
CAS-No.: 1317-39-1

Material	CAS	%	OSHA	ACGIH
Cuprous Oxide	1317-39-1	100%	1 mg/m <sup>3</sup> as Cu	1 mg/m <sup>3</sup> as Cu

### 4. First Aid

**First Aid For Eye:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**First Aid For Skin:** In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

**First Aid For Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**First Aid For Ingestion:** If swallowed, call a physician immediately.

### 5. Fire Data

Flammability: Non-Flammable

Flash Point: Not Applicable

Auto Ignition: Not Applicable

Flammable Limits: Not Applicable

Extinguishing Media: Cuprous oxide is hydrophobic. Do not use water to extinguish. Carbon dioxide and dry chemical should be used.

Fire Fighting Procedure: Fire fighters should be equipped with self-contained breathing apparatus and protective clothing. Avoid contact with eyes and skin. Do not breathe fumes. Do not inhale dust.

Fire/Explosion Hazards: If cuprous oxide is hot and exposed to air, spontaneous combustion may take place.

### 6. Accidental Release

Spill Or Leak Procedures: Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water.

## **7. Handling And Storage**

Storage Temperatures: Store at ambient temperature

Shelf Life: Unlimited in tightly sealed container

Special Sensitivity: None.

Handling/Storage Precautions: Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials. Reseal containers immediately after use. Store away from food and beverages.

## **8. Exposure Controls/Personal Protection**

Eye Protection: Safety glasses or goggles.

Skin Protection: PVC gloves with impervious boots, apron or coveralls. Wash hands and face before eating, drinking or using tobacco.

Respirator: Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.

Ventilation: Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.

Additional Measures: Emergency showers and eye wash stations should be available. Educate and train employees in the safe handling of hazardous chemicals.

## **9. Physical And Chemical Properties**

Physical Form: Fine Powder

Color: Red to Purple

Odor: Odorless

Molecular Weight: 143.09 g/mol

Boiling Point: Not Established

Melting/Freezing Point: 1800°F

Solubility In Water: Insoluble

Specific Gravity: 5.76

## **10. Stability And Reactivity**

Stability: Stable.

Hazardous Polymerization: Will not occur.

Incompatibilities: Hot air (oxidation). Do not use with water as product is hydrophobic. Avoid all contact with acid except under controlled conditions. Product is strongly exothermic.

Instable Conditions: Excessive temperatures (see incompatibilities).

Decomposition Temperature: Not established.  
Decomposition Products: Oxidizes to form CuO

## 11. Toxicological Information

RTECS Number: Not Established

Routes of Exposure: Eye contact. Ingestion. Inhalation. Skin contact.

Toxicity Data: ORAL LD50: over 7,000 mg/kg

Chronic Toxic Effects: This product is not listed by NTP, IARC or regulated as a Carcinogen by OSHA.

Acute Toxic Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness.

Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

## 12. Ecological Information

Ecotoxicity: Not available at this time.

## 13. Disposal Considerations

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

## 14. Transportation Information

Proper Shipping Name: Cuprous Oxide

UN Number: N/A

Class: N/A

P.G.: N/A

Label Code: N/A

Reportable Quantity: 5000(2270) - Contains Copper

## 15. Regulatory Information

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) Inventory List

California Proposition 65: To the best of our knowledge, this product contains no levels of listed substances, which the State of California has found to cause cancer, birth defects or other reproductive effects.

SARA 313 Title III:

Section 320 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: This product may be subject to reporting (Copper content 88.8%)

## **16. Other Information**

Prepared By: Michael Richard

Date: June 3, 2015

Reason For Issue: GHS Compliance

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