



Hummel Croton Inc.  
10 Harmich Road  
South Plainfield, NJ 07080

Tel:908-754-1800 / Fax 908-754-1815

MSDS



## Cuprous Oxide

In case of Emergency Call Chemtrec ®  
(U.S.) (800)-424-9300  
(International) (703)-527-3887

### Section I. Chemical Product and Company Identification

**Supplier:**

Hummel Croton Inc.  
10 Harmich Road  
South Plainfield, NJ 07080  
(908)-754-1800

**Chemical Name:** Cuprous Oxide

**Synonym:** Red Copper Oxide

**CAS Number:** 1317-39-1

**Chemical Formula:** Cu<sub>2</sub>O

HMIS Rating

Health	1
Flammability	0
Reactivity	0
Personal Protection	E

### Section II. Composition and Information on Ingredients

Material	CAS#	%	OSHA	ACGIH
Cuprous Oxide	1317-39-1	100%	15 mg/m <sup>3</sup> as Cu	15 mg/m <sup>3</sup> as Cu

### Section III Hazards Identification:

**Accute Health 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.

**Chronic Health Effects:** This product has no known chronic effects. Repeated or prolong exposure to this compound is not known to aggravate medical conditions.

**Accute Health Effects:** This product is not listed by NTP, IARC or regulated as a Carcinogen by OSHA.

### Section IV. First Aid Measures

**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.

### Section V. Fire and Explosion Data

**Flammability:** Non-Flamable

**Flash Points:** 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 equipment and 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.

## Section VI. Accidental Release Measures

**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

## Section VII. Handling and Storage

**Storage Temperatures:** Store at ambient temperature

**Shelf Life:** Unlimited in tightly closed 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 (see Section X). Reseal containers immediately after use. Store away from food and beverages.

## Section VIII. Exposure Controls/Personal Protection

**Eye Protection:** Safety glasses or goggles.

**Skin Protection:** PVC gloves with impervious boots, apron or coveralls. Employees should wash their hands and face before eating, drinking or using tobacco products.

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

## Section IX. Physical and Chemical Properties

**Physical Form:** Powder

**Color:** Red

**Odor:** Odorless

**Molecular Weight:** 143.09

**Boiling Point:** Not Established

**Melting/Freezing Point:** 1800°C

**Solubility In Water:** Insoluble

**Specific Gravity:** 5.76

## Section X. 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 with O<sub>2</sub> to form CuO

## Section XI. 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.

## Section XII. Ecological Information

**Ecotoxicity:** Not available at this time.

## Section XIII. Disposal Considerations

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

## Section XIV. Transportation Information

**Proper Shipping Name:** Cuprous Oxide

**UN Number:** N/A

**Class:** N/A

**P.G.:** N/A

**Label Code:** N/A

## Section XV. 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 302 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: None

## Section XVI. Other Information

**Prepared By:** Mark Dugan

**Date:** January 05, 2009

**Reason For Issue:** Updated Format

*No warranty, expressed or implied, or merchantability, fitness for a particular purpose or otherwise is made, except that the products herein discussed comply with the chemical description on the labels. Buyer assumes risks of the use, storage and handling. Hummel shall not be liable for any incidental or consequential damages arising directly or indirectly in connection with the purchase, use, storage or handling of this product. The information contained herein is, to the best of our knowledge, true and accurate. However, all recommendations or suggestions are made without guarantee, since the conditions of use are beyond our control. We disclaim any liability incurred in connection with the use of these data or suggestions. This information is not to be taken as a license to operate under, or a recommendation to infringe any patent(s). The observance of all regulations and patents is the responsibility of the user. No agent, representative or employee of this company is authorized to vary any terms of this notice.*