



Hummel Croton Inc.
10 Harmich Rd.
South Plainfield, NJ 07080
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Phone: 908-754-1800
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In Case Of Emergency Call Chemtrec®
(U.S.) (800) 424-9300
(International) (703) 527-3887

Copper Powder Safety Data Sheet

1. Product and Company

Product name: Copper

Synonym: Copper Powder

CAS-No.: 7440-50-8

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 aquatic toxicity (Category 1), H400

GHS Label elements

Pictogram(s)



Signal word **DANGER**

Hazard statement(s)

H400 Very toxic to aquatic life.

Precautionary statement(s)

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with cal/regional, national, international regulations.

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

None.

3. Composition/Ingredients

Substance

Formula: Cu

Molecular weight: 63.55 g/mol

CAS-No.: 7440-50-8

| Material | CAS | % | OSHA | ACGIH |
|----------|-----------|------|---------------------|---------------------|
| Copper | 7440-50-8 | 100% | 1 mg/m ³ | 1 mg/m ³ |

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: Dry chemical powder. Do not use water.

Fire Fighting Procedure: Firefighters should wear self-contained breathing apparatus and prevent contact with skin and eyes.

Fire/Explosion Hazards: This material, like most materials in powder form, is capable of creating a dust explosion. Emits toxic fumes under fire conditions.

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: Powder

Color: Reddish Brown

Odor: Odorless

Molecular Weight: 63.55 g/mol

Boiling Point: 2595°C

Melting/Freezing Point: 1083°C

Solubility In Water: Insoluble

Specific Gravity: 8.94

10. Stability And Reactivity

Stability: Stable.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong acids, strong oxidizing agents, acid chlorides, halogens. May discolor on exposure to air and moisture. Violent reaction may occur with acetylene, ammonium nitrate, bromates, chlorates, iodates, chlorine, chlorine trifluoride, ethylene oxide, fluorine, hydrogen peroxide, hydrazine mononitrite, hydrogen sulfide, hydrozoic acid, lead azide, potassium peroxide, sodium azide and sodium peroxide. Reaction of copper wool, trichloroacetic acid in dimethyl sulfoxide is very exothermic.

Instable Conditions: Excessive temperatures (see incompatibilities).

Decomposition Temperature: Unknown

Decomposition Products: Unknown

11. Toxicological Information

RTECS Number: GL5325000

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

Toxicity Data: Ipr-Mus LD50: 3500 ug/kg

Chronic Toxic Effects: Chronic copper poisoning is typified by hepatic cirrhosis, brain damage and demyelination, kidney defects, and copper deposition in the cornea as exemplified by humans with Wilson's disease. It has also been reported that copper poisoning has lead to hemolytic anemia and accelerates arteriosclerosis.

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: Copper Powder

UN Number: N/A

Class: N/A

P.G.: N/A

Label Code: N/A

Reportable Quantity: 5000(454)

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 100%)

16. Other Information

Prepared By: Michael Richard

Date: June 3, 2015

Reason For Issue: GHS Compliance

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