

# MATERIAL SAFETY DATA SHEET

## **1. PRODUCT AND DOCUMENT IDENTIFICATION**

**Product Identity:** Cupricyn

**Product Code:** CU-CYN, 029-50

**Manufactured by:** Radix Laboratories, Inc.  
1334 International Drive  
Eau Claire, WI 54701

Emergency Telephone: (800) 424-9300

Information Telephone: (715) 833-0644

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Contact: Radix Laboratories Inc.

Replaces issue of: N/A

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## **2. IDENTIFICATION OF SIGNIFICANT CHEMICAL COMPONENTS:**

<b><u>Component</u></b>	<b><u>CAS NO.</u></b>	<b><u>OSHA PEL</u></b>	<b><u>ACGIH TLV</u></b>	<b><u>mg/mL</u></b>
Copper Sulfate • 5H <sub>2</sub> O	7758-99-8	Not Listed	N/A	N/A
Acidic Base	N/A	N/A	N/A	N/A

## **3. FIRE/EXPLOSION HAZARDS:**

**Flash Point (Method Used):** N/A

**Flammable Limits:** Not Flammable

**Extinguishing Media:** Use media appropriate to control surrounding fire.

**Special Fire Fighting Procedures:** Usual fire fighting equipment including self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** Copper expected to be in smoke during fire conditions.

## **4. FIRST-AID MEASURES:**

**Signs and Symptoms of Exposure:** Irritating to eyes. Ingestion may cause nausea/vomiting and intestinal bleeding. Irritating to skin/nasal tract and mucous membranes.

**Medical Conditions Generally Aggravated by Exposure:** Heavy metal poisoning, sulfate allergy.

### **Emergency and First Aid Procedures:**

**SKIN:** Remove contaminated clothing, wash with cold water for 15 minutes.

**EYES:** Flush with cold water for 15 minutes. Seek medical attention to treat potential long term eye problems.

**INGESTION:** Seek medical attention immediately. If inducing vomiting, drink plenty of milk or water first. For ingestion treatment a chelating agent may be administered by a physician.

## **5. PRECAUTIONS FOR SAFE HANDLING AND USE:**

**Clean up of Released/Spilled Material:** Ventilate area of spill, collect material for disposal.

Wear protective equipment during clean up. Do not flush rinse water down drain.

**Waste Disposal Method:** Anodize copper from waste slurry for recycling (recommended), then dispose of waste at a facility operating in compliance with applicable federal, state and local regulations.

**Handling and Storing Precautions:** Store at room temperature. Avoid extremes in temperature. Handle to avoid breakage or spillage. Avoid exposure to direct sunlight.

**Other Precautions:** Use only in accordance with label instructions. Avoid contact with skin and eyes. Avoid ingestion.

## **6. EXPOSURE CONTROL MEASURES:**

**Respiratory Protection:** Not normally required.

**Ventilation:** Local exhaust should be provided.

**Protective Clothing or Equipment:** Impervious gloves, goggles, lab coat or similar clothing.

**Work/Hygienic Practices:** Avoid contact with eyes, skin, mucous membranes. Avoid ingestion. Wash hands and face before eating, drinking or smoking. Staining of exposed skin may occur.

## **7. PHYSICAL/CHEMICAL CHARACTERISTICS:**

**Boiling Point:** N/A (Similar to water)

**Specific Gravity (H<sub>2</sub>O = 1):** 1.2

**Vapor Pressure (mm Hg):** N/A

**Melting Point:** N/A

**Vapor Density (Air = 1):** N/A

**Evaporation Rate:** N/A

**pH:** 1.0-2.0

(Butyl Acetate = 1)

**Solubility in Water:** Complete if stored at 59-86F.

**Appearance and Odor:** Clear blue liquid with soapy odor. Slight haze from gelling additive.

## **8. REACTIVITY INFORMATION:**

**Stability:** Stable

**Conditions to Avoid:** Safe use is only accomplished by following label instructions. Any other use is unsafe, harmful and not recommended.

**Incompatibility (Materials to Avoid):** Bases/Alkalies. Note product pH: exothermic hazard may exist when mixed with alkalies/bases.

**Hazardous Decomposition or Byproducts:** Emits toxic fumes under fire conditions.

**Hazardous Polymerization:** Will not occur.

## **9. TOXICOLOGICAL HAZARD INFORMATION:**

**Route(s) of Entry:** Ingestion, skin, eyes.

**Health Hazards (Acute and Chronic):** Irritation to skin/eyes may occur on contact. Possible hyper sensitization may occur. Very toxic to aquatic organisms.

**Carcinogenicity:** None, but is mutagenic.

**Toxicity:** LD50 (Oral, Rat) 500 mg/kg based on the copper sulfate contribution.