

# MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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## SECTION 1 Product Identification

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**CHEMICAL NAME:** Copper (II) acetate monohydrate

**CAS #:** 6046-93-1

**FORMULA:** Cu(OOCCH<sub>3</sub>)<sub>2</sub>.H<sub>2</sub>O

**SYNONYM:** Cupric acetate monohydrate, Acetic acid, copper (II) salt hydrate

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## SECTION 2 Composition and Information on Ingredients

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INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	6046-93-1	100	1mg/m <sup>3</sup> (as Cu)	1mg/m <sup>3</sup> (as Cu)

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## SECTION 3 Hazards Identification

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**EMERGENCY OVERVIEW:** Harmful if swallowed. May be irritating to the skin, eyes and respiratory tract.

**PRIMARY ROUTES OF EXPOSURE:** Ingestion, inhalation

**EYE CONTACT:** May cause slight to mild irritation of the eyes.

**SKIN CONTACT:** May cause slight to mild irritation of the skin.

**INHALATION:** Inhalation of dust can lead to irritation of the respiratory tract.

**INGESTION:** Harmful if swallowed. Ingestion of copper compounds may lead to vomiting, exhaustion, anemia, convulsions and coma.

**CHRONIC HEALTH EFFECTS:** The dust of copper compounds may cause metal fume fever, hemolysis of the red blood cells and injury to the liver, lungs, kidneys and pancreas.

**ACUTE HEALTH EFFECTS:** May be irritating to skin, eyes and respiratory tract. Harmful if swallowed. Ingestion of large amounts of copper compounds may lead to vomiting, exhaustion, anemia, convulsions and coma.

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## SECTION 4 First Aid Measures

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**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

**INGESTION:** Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

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## **SECTION 5                      Firefighting Measures**

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**FLASH POINT:** not applicable

**AUTO IGNITION TEMPERATURE:** none

**EXPLOSION LIMITS:** none

**EXTINGUISHING MEDIUM:** carbon dioxide, foam, or dry powder

**SPECIAL FIREFIGHTING PROCEDURES:** If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** If involved in a fire this material may emit toxic fumes.

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** No unusual fire or explosion hazards.

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## **SECTION 6                      Accidental Release Measures**

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**SPILL AND LEAK PROCEDURES:** Small spills can be mixed with vermiculite, sodium carbonate or other suitable non combustible adsorbent and swept up.

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## **SECTION 7                      Handling and Storage**

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**HANDLING AND STORAGE:** Store material in a tightly sealed container in a cool dry place.

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## **SECTION 8                      Exposure Controls and Personal Protection**

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**EYE PROTECTION:** Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

**SKIN PROTECTION:** Chemical-resistant.

**VENTILATION:** If possible, handle the material in an efficient fume hood.

**RESPIRATOR:** If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

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## **SECTION 9                      Physical and Chemical Properties**

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**COLOR AND FORM:** green to blue powder

**MOLECULAR WEIGHT:** 181.64 (199.65)

**MELTING POINT (DEG. C.):** none

**BOILING POINT:** 240°C dec.

**VAPOR PRESSURE:** no data

**SPECIFIC GRAVITY:** 1.822

**SOLUBILITY IN WATER:** 7.2g/100cc (cold water)

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## **SECTION 10                    Stability and Reactivity**

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**STABILITY:** air and moisture stable

**HAZARDOUS POLYMERIZATION:** no hazardous polymerization

**CONDITIONS TO AVOID:** none

**INCOMPATIBILITY:** oxidizing agents and active metals.

**DECOMPOSITION PRODUCTS:** copper oxide, carbon monoxide, carbon dioxide, and organic fumes.

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## **SECTION 11 Toxicological Information**

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**RTECS DATA:** Oral (rat); LD50:710 mg/kg. Oral (mouse); LDLo:1600 mg/kg. Intraperitoneal (Mammal-species unidentified); LD50:5 mg/kg.

**MUTAGENIC EFFECTS:** no data

**TETRATOGENIC EFFECTS:** no data

**CARCINOGENIC EFFECTS:** no data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

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## **SECTION 12 Ecological Information**

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**ECOLOGICAL INFORMATION:** No information available

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## **SECTION 13 Disposal Considerations**

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**DISPOSAL:** Dispose of in according to local state and federal regulations.

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## **SECTION 14 Transportation Information**

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Non-hazardous

Non-hazardous

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## **SECTION 15 Regulatory Information**

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**TSCA:** Not Listed in the TSCA inventory

**SARA (TITLE 313):** Title compound : See category N100 for reporting.

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## **SECTION 16 Other Information**

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