

MATERIAL SAFETY DATA SHEET

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

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SECTION 1 Product Identification

CHEMICAL NAME: Copper (II) chloride, anhydrous

CAS #: 7447-39-4

FORMULA: CuCl₂

SYNONYM: Cupric chloride, copper bichloride

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	7447-39-4	100	no data	no data

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Toxic if swallowed. Irritating to the skin, eyes and respiratory tract. Possible risk of irreversible effects, impaired fertility and risk of harm to the unborn child.

PRIMARY ROUTES OF EXPOSURE: Ingestion, inhalation

EYE CONTACT: Causes slight to mild irritation of the eyes

SKIN CONTACT: Causes slight to mild irritation of the skin.

INHALATION: The material is a fine powder. Irritating to the nose, mucous membranes and respiratory tract.

INGESTION: Toxic 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. Possible risk of impaired fertility.

ACUTE HEALTH EFFECTS: Irritating to skin, eyes and respiratory tract. Inhalation may cause chills, muscle ache, nausea, fever and dry throat. Possible risk of irreversible effects and harm to the unborn child.

SECTION 4 First Aid Measures

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.

SECTION 5 Firefighting Measures

FLASH POINT: not applicable

AUTO IGNITION TEMPERATURE: none

EXPLOSION LIMITS: none

EXTINGUISHING MEDIUM: Material is non-flammable.

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 fumes containing toxic copper compounds.

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

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: Small spills can be mixed with vermiculite or sodium carbonate powder and swept up.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store material in a tightly sealed container away from moisture.

SECTION 8 Exposure Controls and Personal Protection

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.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: reddish-brown powder

MOLECULAR WEIGHT: 134.44

MELTING POINT (DEG. C.): none

BOILING POINT: no data

VAPOR PRESSURE: no data

SPECIFIC GRAVITY: 3.386

SOLUBILITY IN WATER: 70.6g/100cc (0°C)

SECTION 10 Stability and Reactivity

STABILITY: hygroscopic

HAZARDOUS POLYMERIZATION: no hazardous polymerization

CONDITIONS TO AVOID: contact with moisture

INCOMPATIBILITY: Active metals
DECOMPOSITION PRODUCTS: none

SECTION 11 Toxicological Information

RTECS DATA: Oral (rat); LD50: 584 mg/kg. Intraperitoneal (rat); LD50: 14700 ug/kg. Intravenous (rat); LD50: 5 mg/kg. Oral (mouse); LD50: 233 mg/kg. Intraperitoneal (mouse); LD50: 7400 ug/kg. Intravenous (mouse); LD50: 17500 ug/kg. Inhalation (rat); TCLo: 20 ug/m3/26W-l). Inhalation (rat); TCLo: 8 ug/m3. Intraperitoneal (mouse); TDLo: 35 mg/kg. Mammal-species unspecified Lymphocyte; DNA damage: 2 mmollL.

MUTAGENIC EFFECTS: Possible mutagen

TETRATOGENIC EFFECTS: Possible reproductive effector

CARCINOGENIC EFFECTS: no data

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

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

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

SECTION 14 Transportation Information

Copper chloride, Class 8, UN2802, PG III

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory

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

SECTION 16 Other Information

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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