Section 1

Chemical Product and Company Identification

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P.O. Box 901 Fort Atkinson, WI 53538-0901

SA 09492

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.

Product

COPPER(II) CHLORIDE, DIHYDRATE

Synonyms

Cupric Chloride, Dihydrate

Section 2

Hazards Identification

Signal word: DANGER

Pictograms: GHS06 / GHS07 / GHS09

Target organs: Respiratory system, Liver, Kidneys.







GHS Classification:

Acute toxicity-oral (Category 3) Skin irritation (Category 2) Eye irritation (Category 2A) Aquatic acute toxicity (Category 1) Aquatic chronic toxicity (Category 1)

GHS Label information: Hazard statement:

H301: Toxic if swallowed. H315: Causes skin irritation. H319: Causes serious eye irritation.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statement:

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection P301+P330+P310: IF SWALLOWED: Rinse mouth. Immediately call a POISON

CENTER or doctor

P302+P352: IF ON SKIN: Wash with plenty of water and soap.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313: If skin irritation occurs: Get medical advice/attention. P337+P313: If eye irritation persists: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash before reuse

P391: Collect spillage.

P405: Store locked up.
P501: Dispose of contents/container to a licensed chemical disposal agency in

accordance with local/regional/national regulations.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

CAS#	%	EINECS	
10125-13-0	>98%	231-210-2 (anhydrous)	
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First Aid Measures Section 4

INGESTION: HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES SEVERE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Handling & Storage

Supercedes: May 13, 2016

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances

Exposure Controls / Personal Protection OSHA (PEL) Chemical Name ACGIH (TLV) NIOSH (REL) Exposure Limits: TWA: 1 mg/m³ Copper, dusts and mists, as Cu TWA: 1 mg/m TWA: 1 mg/m

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA. approved respirator.

Section 9 Physical & Chemical Properties

Appearance: Blue-green, crystalline solid

Odor: Odorless

Odor threshold: Data not available

pH: Data not available Melting / Freezing point: 100°C (230°F)

Boiling point: Decomposes Flash point: Non-flammable

Evaporation rate (= 1): Not applicable Flammability (solid/gas): Not applicable Explosion limits: Lower / Upper: Not applicable Vapor pressure (mm Hg): Data not available
Vapor density (Air = 1): Data not available
Relative density (Specific gravity): 2.54
Solubility(ies): Soluble in water

Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available

Viscosity: Data not available.

Molecular formula: CuCl₂•2H₂O Molecular weight: 170.48

Section 10 Stability & Reactivity

Chemical stability: Stable

Hazardous polymerization: Will not occur

Conditions to avoid: Hygroscopic material. Avoid exposure or contact to extreme temperatures and incompatible materials

Incompatible materials: Potassium, sodium, hydrazine, nitromethane, aluminum, strong oxidizers, acetylene and sodium hypobromite.

Hazardous decomposition products: Copper oxides and hydrogen chloride.

Section 11 Toxicological Information

Acute toxicity: Oral-rat LD50: 290 mg/kg; Oral-human LD50: 200 mg/kg

Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available

Potential health effects:

irritation.

Section 12

Inhalation: Symptoms of over-exposure may include irritation, sore throat, shortness of breath, ulceration and perforation of the nasal septum and upper respiratory tract

Ingestion: May cause gastrointestinal irritation with symptoms such as nausea, vomiting and diarrhea

Skin: Contact with skin may cause symptoms of itching, redness, blistering and possible scarring, dermatitis.

Eyes: Contact with eyes may cause redness, pain and blurred vision. Prolonged contact may cause corneal injury.

Signs and symptoms of exposure: Copper salts impart a metallic taste in the mouth. Damage to the kidneys may occur in person's with Wilson's disease. High

concentrations in contact with skin may result in burns. Chronic exposure may also lead to liver damage, anemia and other blood cell abnormalities

Additional information: RTECS #: GL7030000

Ecological Information Toxicity to fish: Bluegill LC50: 0.9 mg/L/96 hours

Toxicity to daphnia and other aquatic invertebrates: Daphnia magna EC50: 0.04 mg/L/48 hours

Toxicity to algae: Selenastrum EC50: 0.12 mg/L/96 hours

Bioaccumulative potential: No data available Persistence and degradability: No data available

Mobility in soil: No data available PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Transport Information (US DOT / CANADA TDG) Section 14

UN/NA number: UN2802 Shipping name: Copper chloride

Reportable Quantity: 10 lbs (4.54 kg) Marine pollutant: Yes Hazard class: 8 Packing group: III

2016 ERG Guide # 154 Exceptions: Limited quantity equal to or less than 5 Kg

Section 15 Regulatory Information

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL
Cupric chloride (anhydrous)	Listed	10 lbs (4.54 kg)	Not listed	Listed	Not listed

Other information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

Form 06/2015

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