Section 1 Chemical Product and Company Identification

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

SA 09492 50 5/09

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, Kidneya



GHS Classification: Acute toxicity-oral (Category 3) Skin imitation (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 inflation H319: Causes serious eye irritation

H410. Very toxic to aquatic life with long lasting effects

Precautionary etatement:

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.

Chemical Name	CAS#	5	EINECS
Cupric chloride, dihydrate	10125-13-0	>98%	231-210-2 (anhydrous)
		1	
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Section 4 First Aid Measures

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

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, fitting upper and lower eyelids

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

Section 5 Fire Fighting Measuree

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 appearatus and full protective gear. Use water spray to keep fire-exposed containers cool

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

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to asia 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

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

Section 8 Exposure Controls / Personal Protection

Chemical Name Exposure Limits:

Copper, dusts and mists, as Cu

ACGIH (TLV) TWA: 1 mg/m³

OSHA (PEL) TWA: 1 mg/m³

NIOSH (RELI 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 protoctive 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 furne hood or wear a NIOSH/MSHA-

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 (Alr = 1): Data not available Relative density (Specific gravity): 2 54 Solubility(les): Soluble in water

Partition coefficient: Data not evallable 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 stubility: 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 infromethane, aluminum, strong oxidizers, acetylene and sodium hypobromite

Hazardous decomposition products: Copper oxides and hydrogen chloride

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:

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

imtalion.

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

Skin! Contact with skin may cause symptoms of tiching, redness, blistering and possible scarring, dermatitis

Syss: Contact with eyes may cause redness, pair and blurred vision. Prolonged confact 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 is with Wilson's disease. High
concentrations in confact with skin may result in burns. Chronic exposure may also lead to liver damage, anemia and other blood cell abnormalities
Additional information: RTECS #: GL7030000

Section 12 Ecological Information Toxicity to fish: Bluegill LC50 0.9 mg/L/98 hours

Toxicity to daphrile and other equatic invertebrates; Daphnia magna EC50 0.04 mg/U48 hours

Toxicity to algae: Selenastrum EC50: 0 12 mg/L/96 hours

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

Section 13 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)

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

A characal is considered to be listed if the CAS number for the anhydrous form is on the inventory list

DSL NDSL CERLCA (RQ) RCRA code Component TSCA

Cupric chloride (anhydrous)

10 lbs (4.54 kg)

Not listed

Listed

Not listed

Section 16 Other Information

The information contained herein is furnished without warrenty of any kind. Employers should use this information only as a supplement to other information pathered 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 Spacific Target Organ Toxicity, SE. Single Exposure, RE. Repeated Exposure, Responses Guidebook.

Form 08/2015

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Supercedes: May 13, 2016