SDS No.: CC0500

### **Chemical Product and Company Information** Section 1 CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. 80 Northwest Blvd ashua NH 03063 Not for drug, food or household use. (800) 225-3739 COPPER(II) CHLORIDE, DIHYDRATE Product Synonyms Cupric Chloride, Dihydrate Section 2 **Hazards Identification** Signal word: DANGER Precautionary statement: Pictograms: GHS06 / GHS07 / GHS09 P264: Wash hands thoroughly after handling. Target organs: Respiratory system, Liver, Kidneys. 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. GHS Classification: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Acute toxicity-oral (Category 3) Remove contact lenses, if present and easy to do. Continue rinsing. Skin irritation (Category 2) P332+P313: If skin irritation occurs: Get medical advice/attention. Eye irritation (Category 2A) P337+P313: If eye irritation persists: Get medical advice/attention. Aquatic acute toxicity (Category 1) P362+P364: Take off contaminated clothing and wash before reuse. Aquatic chronic toxicity (Category 1) P391: Collect spillage. P405: Store locked up GHS Label information: Hazard statement: P501: Dispose of contents/container to a licensed chemical disposal agency in H301: Toxic if swallowed accordance with local/regional/national regulations. H315: Causes skin irritation. H319: Causes serious eye irritation. H410: Very toxic to aquatic life with long lasting effects.

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 3	Composition / Information on Ingredients					
Chemical Name		CAS #	%	EINECS		
Cupric chloride, dih	nydrate	10125-13-0	>98%	231-210-2 (anhydrous)		
Section 4	tion 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 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.

# Section 6 Accidental Release Measures

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.

(2012 EMERGENCY RESPONSE GUIDEBOOK, (PHH50-ERG2012), GUIDE # 154)

#### Section 7 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 reuse

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

Section 8	Exposure Controls / Personal Protection				
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)	
Exposure Linits.	Copper, dusts and mists, as Cu	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	

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/MSHAapproved respirator.

	Section 9 Physical & Chemical Pro	perties		
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: CuCl <sub>2</sub> •2H <sub>2</sub> O 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: Inhalation: Symptoms of over-exposure may include irritation, sore throat, shortness of breath, ulceration and perforation of the nasal septum and upper respiratory tract irritation. 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 Section 12 **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 Persistence and degradability: No data available Bioaccumulative potential: 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. 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. Section 14 **Transport Information** UN/NA number: UN2802 Shipping name: Copper chloride Hazard class: 8 Packing group: III Reportable Quantity: 10 lbs (4.54 kg) Marine pollutant: Yes Exceptions: Limited quantity equal to or less than 5 Kg 2012 ERG Guide # 154 Section 15 **Regulatory Information** A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list. DSL NDSL WHMIS Classification Component TSCA CERLCA (RQ) RCRA code Cupric chloride (anhydrous) Listed 10 lbs (4.54 kg) Not listed Listed Not listed D2A: D2B Section 16 **Additional 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