**Kemtec**
**9 Barnhart Drive, Hanover, PA 17331 (717) 632-1291**
**Emergency Telephone No.: (800) 255-3924**

# Material Safety Data Sheet

## Section 1 – Chemical Product and Company Identification

Catalog Numbers: KEMCC1930-H, KEMCC1930-E, KEMCC1930-I, KEMCC1930-J, KEMCC1930-K, KEMCC1930-M, KEMCC1930-12G, KEMCC1930-25G
Product Identity Cupric Carbonate, Green powder
**Chemical Family:** Not Applicable
**Synonyms:** Basic Copper Carbonate; Copper (II) Carbonate Hydroxide; Cupric Carbonate; Dicopper Dihydroxycarbonate.
**Recommended Use:** Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331, (866) 632-1291
Emergency Contact Number (24hr): Chemtel (800) 255-3924

**Issue Date:** 06/11/12
**Revision Date:**

## Section 2 – Hazard Identification

May cause eye and skin irritation. May cause respiratory and digestive tract irritation. May be harmful if swallowed. May cause kidney damage. The toxicological properties of this material have not been fully investigated.
**Appearance** green to blue solid **Odor:** Odorless
**Target Organs:** Kidneys, brain.
**Potential Health Effects/ Routes of Exposure:**
**Eye:** May cause mild eye irritation.
**Skin:** May cause skin irritation.
**Ingestion:** May cause irritation of the digestive tract. May be harmful if swallowed.
**Inhalation:** May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.
**Chronic:** Individuals with Wilson's disease are unable to metabolize copper. Thus, copper accumulates in various tissues and may result in liver, kidney, and brain damage.. May cause liver and kidney damage.
**Aggravated Medical Conditions**: Wilson's disease
These chemicals are not considered hazardous by OSHA.
See section 11 for toxicological information. See section 12 for potential environmental effects.

## Section 3 – Composition, Information on Ingredients

Copper (II) carbonate hydroxide Monohydrate, CAS# 12069-69-1

## Section 4 – First Aid

**Eyes**: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
**Skin**: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.
**Ingestion**: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.
**Inhalation**: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
**Notes to Physician**: Treat symptomatically and supportively.
**Antidote**: The use of d-Penicillamine as a chelating agent should be determined by qualified medical personnel.

## Section 5 – Fire Fighting Measures

**Flash Point:** Not Applicable **Autoignition Temperature** No information available.
**Explosion Limits Upper** No data available **Lower** No data available
**Extinguishing Media:** Use means suitable to extinguishing surrounding fire.
**Unsuitable Extinguishing Media:** No information available
**Fire & Explosion Hazards:** Not considered to be a fire or explosion hazard.
**Fire Fighting Instructions / Equipment:** Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment.
**Hazardous Combustion Products:** No information Available
**Sensitivity to mechanical impact** No information available.
**Sensitivity to static discharge** No information available.
**Specific Hazards Arising from the Chemical:** No information available
**NFPA Rating:** (estimated) Health: 1; Flammable: 0; Reactivity: 0

## Section 6 – Accidental Release Measures

**Personal Precautions:** Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.
**Environmental Precautions:** Not relevant considering the small amounts used.
**Methods for Containment and Clean:** Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions Provide ventilation.

## Section 7 – Handling and Storage

**Handling:** Wash thoroughly after handling. Wash hands before eating. Use only in a well-ventilated area. Minimize dust generation and accumulation. Do not breathe dust, vapor, mist, or gas. Do not get on skin or in eyes. Do not ingest or inhale.
**Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

## Section 8 – Exposure Controls, Personal Protection

Copper (II) carbonate hydroxide Monohydrate, CAS# 12069-69-1, ACGIH TLV: NA, OSHA PEL: NA

**Engineering Measures/ General Hygiene:** Local/general exhaust is recommended. Ensure eyewash and safety showers are available.
**Personal Protection Equipment: Skin Protection:** Chemical resistant gloves.
**Eye/Face Protection:** Safety Glasses or goggles. **Respiratory Protection:** Normal ventilation is adequate

## Section 9 – Physical and Chemical Properties

**Appearance/Physical State:** Green to blue solid

| | |
|---|---|
| **Odor:** Odorless | **% Volatility:** No Information Available |
| **Boiling Point:** 240 C | **Specific Gravity:** 4.0 |
| **Melting Point:** 200 C | **Vapor Pressure:** NA |
| **Vapor Density:** NA | **Flash Point:** Not Applicable |
| **Evaporation Rate:** No Information Available | **Coefficient of water/oil distribution:** Not Available |
| **pH:** NA | **Odor Threshold:** Not Available |
| **Flammability:** No Information Available | **Decomposition Temperature:** 200 C |
| **Solubility:** Insoluble | **Partition Coefficient n-octanol/water:** No data available |
| **Relative Density:** No Information Available | **Molecular Weight:** 221.103 |

## Section 10 – Stability and Reactivity

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.
**Incompatible Materials:** Copper salts + hydrazine react explosively with nitro-methane.
**Conditions to Avoid:** Incompatible materials, dust generation, excess heat, strong oxidants.
**Hazardous Decomposition Products:** Oxides of copper, acrid smoke and fumes.

**Hazardous Polymerization:** Does not occur
**Hazardous Reactions:** None under normal processing.

## Section 11 – Toxicological Information

**Routes of Exposure/Symptoms/Corrosiveness** – See Section 2
LD50 orl-rat 1350 mg/kg; LC50 inhalation-rat: NA

**Irritation:** No Information Available
**Toxicologically Synergistic:** No Information Available
**Chronic Exposure**
**Carcinogenicity** No Information available
**Sensitization** No information available.
**Mutagenic:** No Information available
**Reproductive Effects:** No Information available
**Developmental Effects (Immediate/Delayed):** No Information available
**Other Adverse Effects** No Information Available.
**Endocrine Disruptor Information** No information available

## Section 12 – Ecological Information

**Ecotoxicity:** No data available. treatment microorganisms.
**Persistence and Degradability:** No Information Available
**Environmental:** No Information Available
**Bioaccumulation/ Accumulation:** No Information Available

## Section 13 – Disposal Considerations

**Waste Disposal/Waste Disposal of Packaging:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

## Section 14 – Transport Information

**DOT – not regulated**

## Section 15 – Regulatory Information (not meant to be all inclusive)

**OSHA Status:** These chemicals are not considered hazardous by OSHA.
**Canada DSL:** These chemicals are listed on the Canada DSL list.
**TSCA:** The components of this solution are not listed on the TSCA Inventory
**SARA Title III Section 313:** This material contains Copper (II) carbonate hydroxide Monohydrate (listed as Copper compounds, n.o.s.), 100%, (CAS# 12069-69-1) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.
**RCRA Status:** Not Applicable
**CERCLA Reportable Quantity:** NA
**WHMIS:** D2B. Class D - Poisonous and Infectious Material, Division 2: Materials causing other toxic effects, Subdivision B: Toxic material
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR

## Section 16 – Additional Information

**Disclaimer: The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.**