



SAFETY DATA SHEET  
CU-7 Copper Algaeicide - 0440

**Product Name:** CU-7 Copper Algaeicide  
**Date:** 5/15/2015

SECTION 1 **IDENTIFICATION**

**Supplier:** Phoenix Products Company  
55 Container Drive  
Terryville, CT 06786  
(860) 589-7502

**Distributor:**

**U.S. PERS Emergency Telephone:** 1-800-633-8253

**Product Name:** **CU-7 Copper Algaeicide**

**Synonyms:** 2,2',2''-Nitrilotriethanol copper salt; Triethanolamine-copper complex; Copper triethanolamine; K-Lox, K-Pool, K-Tea

**Chemical Name:** Copper Triethanolamine Complex

**Chemical Formula:**  $C_6H_{15}CuNO_3$

**CAS Number:** 31089-39-1

**Product Use:** Pool Algaeicide

SECTION 2 **HAZARDS IDENTIFICATION**

**Emergency Overview**  
**CAUTION**

**Routes of Entry:** Inhalation: Yes  
Skin: No  
Ingestion: No

**Reports of Carcinogenicity:** NTP: No  
IARC: No  
OSHA: No

**Health Hazards Acute and Chronic:** Non-irritating to eyes and skin. Minimal hazard from inhalation. Highly emetic, very seldom toxic.

**Explanation of Carcinogenicity:** Not relevant.

**Effects of Overexposure:** See health hazards.

**Medical Cond Aggravated by Exposure:** None known.

**Other Hazards:** Other Hazards Not Contributing to the Classification: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

\*For GHS required information see SECTION 15: *REGULATORY INFORMATION*.

SECTION 3 **COMPOSITION / INGREDIENTS INFORMATION**

<b>Component</b>	<b>CAS Number</b>	<b>Percent</b>
Copper Triethanolamine Complex*	31089-39-1	23.21%

\*Metallic copper equivalent 7.00%  
Contains 0.75 lbs. of elemental copper per gallon



SECTION 4 **FIRST AID MEASURES**

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

**Most Important Symptoms and Effects Both Acute and Delayed**

**General:** Causes serious eye irritation.

**Inhalation:** May cause respiratory irritation.

**Skin Contact:** May cause skin irritation.

**Eye Contact:** Causes serious eye irritation.

**Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

**Indication of Any Immediate Medical Attention and Special Treatment Needed:** If you feel unwell, seek medical advice (show the label where possible).

SECTION 5 **FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire. Application of water stream to hot product may cause frothing and increase fire intensity.

**Special Hazards Arising From The Substance or Mixture**

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

**Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** None



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**Reference to Other Sections:** Refer to Section 9 for flammability properties.

SECTION 6 **ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).

**For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

**For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Stop leak if safe to do so. Ventilate area.

**Environmental Precautions:** Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

**Methods and Material for Containment and Cleaning Up**

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

**Reference to Other Sections:** See Heading 8. Exposure controls and personal protection.

SECTION 7 **STORAGE AND HANDLING**

**Precautions for Safe Handling**

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**Conditions for Safe Storage, Including Any Incompatibilities**

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Protect product from freezing.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

**Specific End Use(s):** Swimming pool algaecide.

SECTION 8 **EXPOSURE CONTROLS / PERSONAL PROTECTION**



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**Control Parameters:** No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

SECTION 8 **EXPOSURE CONTROLS / PERSONAL PROTECTION - Continued**

**Exposure Controls**

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective goggles. Gloves. Protective clothing.

**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use

SECTION 9 **PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Liquid
<b>Appearance:</b>	Blue
<b>Odor:</b>	Slight
<b>Odor Threshold:</b>	Not available
<b>pH:</b>	7.85 - 8.05
<b>Relative Evaporation Rate (butylacetate=1):</b>	Not available
<b>Melting Point:</b>	Not available
<b>Freezing Point:</b>	-5.6 °C (22 °F)
<b>Boiling Point:</b>	100 °C (212 °F)
<b>Flash Point:</b>	Not available
<b>Auto-ignition Temperature:</b>	Not available
<b>Decomposition Temperature:</b>	Not available
<b>Flammability (solid, gas):</b>	Not available
<b>Lower Flammable Limit:</b>	Not available
<b>Upper Flammable Limit:</b>	Not available
<b>Vapor Pressure:</b>	17mm
<b>Relative Vapor Density at 20 °C:</b>	Not available
<b>Relative Density:</b>	Not available
<b>Specific Gravity:</b>	1.08-1.11
<b>Solubility:</b>	Miscible
<b>Partition coefficient (n-octanol/water):</b>	Not available



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**Viscosity:** Not available  
**Explosion Data – Sensitivity to Mechanical Impact:** Not expected to present an explosion hazard due to mechanical impact.  
**Explosion Data – Sensitivity to Static Discharge:** Not expected to present an explosion hazard due to static discharge.

SECTION 10 **STABILITY AND REACTIVITY**

**Reactivity:** Hazardous reactions will not occur under normal conditions.

**Chemical Stability:** Stable under recommended handling and storage conditions (see Section 7).

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>).

SECTION 11 **TOXICOLOGICAL INFORMATION**

**Acute Toxicity:** Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Not classified

pH: 7.85 - 8.05

**Serious Eye Damage/Irritation:** Causes serious eye irritation.

pH: 7.85 - 8.05

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not available

**Carcinogenicity:** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** May cause respiratory irritation.

**Symptoms/Injuries After Skin Contact:** May cause skin irritation.

**Symptoms/Injuries After Eye Contact:** Causes serious eye irritation.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

SECTION 12 **ECOLOGICAL INFORMATION**



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**Ecology - General:** Very toxic to aquatic life with long lasting effects.

**Persistence and Degradability:** Not available

**Bioaccumulative Potential:** Not available

**Mobility in Soil:** Not available

**Other Adverse Effects:** Avoid release to the environment.

SECTION 13 **DISPOSAL CONSIDERATIONS**

**Waste Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment. Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. Contact with incompatible materials could cause a reaction or fire.

**Container:** Nonrefillable container. Do not refill or reuse this container. Triple rinse or equivalent before discarding in trash.

SECTION 14 **TRANSPORTATION INFORMATION**

**DOT:** **UN Number:** ORM-D  
**UN Proper Shipping Name:** ORM-D  
**Transport Hazard Class:** ORM-D  
**Packing Group:** ORM-D

*Consumer commodity* (ORM-D) means a material that is packaged and distributed in a form intended or suitable for sale through retail sales agencies or instrumentalities for consumption by individuals for purposes of personal care or household use. Valid until December 31, 2020.

**TDG:** **UN Number:** 3082  
**UN Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Copper Triethanolamine Complex)  
**Transport Hazard Class:** 9  
**Packing Group:** III  
**Marine Pollutant:** Yes

**MEX:** **UN Number:** 3082  
**UN Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Copper Triethanolamine Complex)  
**Transport Hazard Class:** 9  
**Packing Group:** III  
**Marine Pollutant:** Yes

**IMDG:** **UN Number:** 3082  
**UN Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Copper Triethanolamine Complex)  
**Transport Hazard Class:** 9  
**Packing Group:** III  
**EMS-No:** F-A, S-F



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**Marine Pollutant:** Yes

**IATA: UN Number:** 3082  
**UN Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Copper Triethanolamine Complex)  
**Transport Hazard Class:** 9  
**Packing Group:** III

SECTION 15 **REGULATORY INFORMATION**

\*This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

-The signal word **CAUTION** is not recognized by the GHS requirements and therefore would not be present on a GHS label or SDS.

-**OSHA Regulatory Status:** This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122). Not a dangerous substance or mixture according to the **Globally Harmonized System (GHS)**.

**US Federal Regulations:** Neither this product nor its chemical components appear on any US federal lists.

**US State Regulations:** Neither this product nor its chemical components appear on any US state lists.

**Canadian Regulations**

Pool Algacide	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects: Skin/Eye Irritation-Reversible Damage

SECTION 16 **OTHER INFORMATION**

**NFPA Health Hazard:** 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

**NFPA Fire Hazard:** 1 - Must be preheated before ignition can occur.

**NFPA Reactivity:** 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

**HMIS III Rating**

**Health:** 1 - Slight Hazard - Irritation or minor reversible injury possible

**Flammability:** 1 - Slight Hazard

**Physical:** 0 - Minimal Hazard

No representations or warranties, either expressed or implied, of merchant ability, fitness for a particular purpose or any other nature are made hereunder with respect to information or the product to which information refers.



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