

**MATERIAL SAFETY DATA SHEET**

Phoenix Environmental Care, LLC  
P.O. Box 370  
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General Information No. 229-245-8845  
In Case of Emergency, Call  
PROSAR: 888-875-1724  
CHEMTREC: 800-424-9300

**I. PRODUCT IDENTIFICATION**

Product Name: Current  
Active ingredient: Elemental Copper (8%)

**II. COMPOSITION INFORMATION ON INGREDIENTS**

<u>Component</u>	<u>CAS Number</u>	<u>% by Wt.</u>
Elemental Copper	Not available	8%*
Inert ingredients		92%

\*derived from copper-ethylenediamine complex (CAS # 13426-91-0) and copper sulfate pentahydrate (CAS # 7758-99-8).

Components not precisely identified are proprietary or not hazardous.

**III. PHYSICAL & CHEMICAL PROPERTIES**

Odor: None  
Appearance: Dark purple  
Physical State: Liquid  
pH: 9.62  
Solubility in Water (20°C): Soluble in water and alcohols.  
Density (20°C): 1.22 g/cm<sup>3</sup>  
Vapor Pressure: No appreciable vapor pressure. Open containers can lose small amounts of water by volatilization.  
Boiling Point: 215°F. Loses water and decomposes at high temperatures.

**IV. FIRE FIGHTING MEASURES**

Flash Point & Method: Not determined  
Flammable Limits: Not determined  
Autoignition Temperature: Not determined

**FIRE FIGHTING HAZARDS & PROCEDURES**

General Hazard: Prevent human exposure to fire, smoke, fumes or products of combustion.  
Extinguishing Media: Not determined  
Fire Fighting Equipment: Wear protective clothing and self-contained breathing apparatus.  
Hazardous Combustion Products: Decomposes above 200°C.

**V. HAZARDOUS IDENTIFICATION SUMMARY**

HAZARDS CLASSIFICATION (0-minimal, 1-slight, 2-moderate, 3-serious, 4-severe)

NFPA: HEALTH- 2 FIRE-1 REACTIVITY-0

HMIS: HEALTH-2 FIRE-1 REACTIVITY-0

### EMERGENCY OVERVIEW

Dark Purple liquid that may cause moderate irritation to the eyes and skin. See below for route-specific details.

#### POTENTIAL HEALTH EFFECTS

Inhalation:	May be harmful if inhaled. Avoid breathing spray mist.
Eye Irritation:	Considered to be a moderate irritant. Avoid eye contact with the product by using chemical safety glasses or goggles. May cause redness, swelling, and discharge, but is reversible.
Skin Irritation:	Slight skin irritant.
Skin Absorption:	Slightly toxic dermally.
Ingestion:	Moderately toxic by ingestion.

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### VI. FIRST AID MEASURES

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<b>IF SWALLOWED:</b>	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
<b>IF IN EYES:</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
<b>IF ON SKIN OR CLOTHING:</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
<b>IF INHALED:</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.

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### VII. ACCIDENTAL RELEASE MEASURES

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Spill or Leak Procedures:	Cover the spill with an absorbent material such as sweeping compound or lime. Sweep up and place in suitable (fiberboard) containers for later disposal.
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### VIII. HANDLING AND STORAGE

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Storage Temperature:	Store below 35°C (95°F). Decomposes above 200°C. Average shelf life under proper storage conditions is 2 years.
General Information:	Store in a clean, dry area. Do not store near feed or food. Keep out of the reach of children.

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**IX. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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Ventilation: Provide local exhaust ventilation and/or general dilution ventilation to meet published exposure limits.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Eye Protection: Wear protective eyewear to prevent contact with this substance.

Protective Clothing: Wear rubber gloves.

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**X. STABILITY AND REACTIVITY**

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Stability: This material is stable under normal conditions

Conditions to Avoid: Should not be used where pH of water is below 6 due to the possibility that the copper chelate may dissociate and release copper ions which could subsequently be precipitated as insoluble copper salts. Should not be applied when water temperature is below 60°F.

Hazardous Decomposition: Decomposes above 200°C.

Hazardous Polymerization: Material is not known to polymerize.

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**XI. TOXICOLOGICAL INFORMATION**

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Inhalation: Acute inhalation LC<sub>50</sub> = 0.81 mg/L (rat - 4 hour).

Eye Irritation: Considered to be a moderate irritant. May cause redness, swelling, and discharge, but is reversible.

Skin Irritation: Considered to be a slight irritant to the skin. Slightly toxic dermally. Material is a non-sensitizer to the skin.

Skin Absorption: Acute dermal LD<sub>50</sub> > 2,000 mg/kg.

Ingestion: Moderately toxic by ingestion. Oral LD<sub>50</sub> = 498 mg/kg.

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**XII. ECOLOGICAL INFORMATION**

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For detailed ecological information, write to the address listed on page 1 of this MSDS.

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**XIII. DISPOSAL CONSIDERATIONS**

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Product Disposal: Wastes resulting from the use of this product may be disposed of on site or an approved disposal facility.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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#### **XIV. TRANSPORT INFORMATION**

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Department of Transportation (DOT):	Regulated
International Air Transport Association (IATA)	Regulated
International Maritime Organization (IMO):	Regulated
Classification:	Copper Based Pesticide, Liquid, Toxic (Copper-Ethylenediamine Complex 8%)
Class:	6.1
Identification Number:	UN 3010, ERG 151
Packing Group:	III

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#### **XV. REGULATORY INFORMATION**

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OSHA:	This product is considered hazardous under the OSHA Hazardous Communication Standard 29 CFR 1910.1200.
TSCA:	All product components are on the TSCA Chemical Inventory or are not required to be listed on the TSCA Inventory.
CERCLA:	Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to the state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.
RCRA:	When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33.

SARA TITLE III 311/312 Hazard Categories:

This product has been reviewed according to the EPA "Hazard Categories" and is categorized as an immediate health hazard (40 CFR 370.41).

313 Reportable Ingredients: This product does not contain any material listed in Section 313 above de minimis concentrations.

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#### **XVI. OTHER INFORMATION**

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REVISION SUMMARY

Not applicable

Current™ is a trademark of Phoenix Environmental Care LLC.

**The information in this MSDS relates to this specific material. It may not be valid for this material if used in combination with any other materials or in any process. It is the users' responsibility to satisfy themselves as to the suitability and completeness of this information for their own particular use.**