



**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Chemical Product

BCS-COPPER FUNGICIDE

EPA Reg. No. 35253-5

Common Name: Basic Copper Sulfate solution; Tri-Basic Copper Sulfate solution.

Chemical Description: Water base suspension of tri-basic copper sulfate.

TSCA/CAS No.: The primary CAS number is 1344-73-6.

Manufactured By

Brandt Consolidated, Inc.

959 S. Angelo Lake Road

Avon Park, Florida 33825 USA

(863) 453-6450

Emergency Phone Numbers

CHEMTREC (24-Hour Emergency Number): (800) 424-9300

EPA National Response Center: (800) 424-8802

**SECTION 2. HAZARDOUS INGREDIENTS**

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
Copper Sulfate, tribasic [CuSO <sub>4</sub> • 3Cu (OH) <sub>2</sub> • H <sub>2</sub> O] Copper as metallic (53%)	1344-73-6	44.0%	*N.A.	*N.P.

\* N.A. – Not Available. \* N.P. - Not Pertinent.

**SECTION 3. EMERGENCY/HAZARDS OVERVIEW**

Light green liquid with slight sweet odor. Causes severe eye irritation. Avoid contact with skin and eyes. Ingestion may cause diarrhea, vomiting and stomach pain. Product is toxic to fish. Not D.O.T. regulated.

HEALTH: 2      REACTIVITY: 0      FLAMMABILITY: 1      ENVIRONMENT: 0  
(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

**SECTION 4. FIRST AID**

- Eyes: 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.
- Skin: 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.
- Ingestion: Immediately call a poison control center or doctor 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.
- Inhalation: 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 for further treatment advice.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5.	FIRE AND EXPLOSION HAZARDS
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Flash Point:	Not available.
Test Method:	Not available.
LEL Flammable Limits:	Not available.
UEL Flammable Limits:	Not available.
Autoignition Temperature:	Not available.
Flammability Classification:	Nonflammable.
Known Hazardous Products of Combustion:	Not known.
Properties that Initiate/Contribute to Intensity of Fire:	Not known.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	Not known.
Potential For Release of Flammable Vapors:	Not known.
Unusual Fire & Explosion Hazards:	Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion.
Extinguishing Media:	Foam, carbon dioxide, dry chemical, or water spray.
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus and full protective clothing. Avoid smoke inhalation. Contain any liquid runoff.

SECTION 6.	SPILLS AND LEAKS
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Containment:	Prevent product spillage from entering drinking water supplies or streams.
Clean Up:	Collect liquid or absorb onto absorbent material and package for disposal.
Evacuation:	Not necessary.

SECTION 7.	STORAGE AND HANDLING
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Storage:	Store in original container only in a cool, well-ventilated, dry place at temperatures above 40°F. Do not store near food or feeds. Do not stack pallets more than two (2) high.
Transfer Equipment:	Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.
Work/Hygienic Practices:	Keep out of reach of children. Corrosive. Causes irreversible eye damage. Do not get in eyes or on clothing. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with skin. Avoid breathing spray mist.

SECTION 8.	PERSONAL PROTECTIVE EQUIPMENT
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Eyes:	Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.
Skin:	Long-sleeved shirt and long pants, shoes plus socks and chemical resistant gloves made of any waterproof material.
Respiratory:	Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8710).
Ventilation:	Recommended but no TLV established.

**SECTION 9. PHYSICAL AND CHEMICAL DATA**

Appearance:	Light green liquid.
Odor:	Slight sweet odor.
pH:	5.7 – 5.9
Vapor Pressure:	Not available.
Vapor Density (Air=1):	Not available.
Boiling Point:	Not available.
Freezing Point:	Not available.
Water Solubility:	Not available.
Density:	12.1 – 12.3 lbs./gal.
Evaporation Rate:	Not determined.
Viscosity:	Not available.
% Volatile:	Not available.
Octanol/Water Partition Coefficient:	Not available.
Saturated Vapor Concentration:	Not available.

**SECTION 10. STABILITY AND REACTIVITY**

Stability:	Stable.
Conditions To Avoid:	High temperatures.
Incompatibility:	Acidic conditions and materials, ammonia. Copper is corrosive to aluminum and iron, especially in aqueous state and at elevated temperatures.
Hazardous Decomposition Products:	Hydrogen chloride, oxides of hydrogen and copper.
Hazardous Polymerization:	Will not occur.

**SECTION 11. POTENTIAL HEALTH EFFECTS**Acute Effects:

Eyes:	Severely irritating to the eyes. If not removed promptly will injure eye tissue, which may result in permanent damage.
Skin:	Prolonged or repeated skin contact may cause irritation.
Ingestion:	May be harmful if swallowed. Can cause diarrhea, vomiting and stomach pain.
Inhalation:	Inhalation of spray mists may be harmful.

Subchronic Effects: None known.

Chronic Effects: None known.

**SECTION 12. ECOLOGICAL INFORMATION**

Algal/Lemna Growth Inhibition:	Not known.
Toxicity to Fish and Invertebrates:	Toxic to fish.
Toxicity to Plants:	Not known.
Toxicity in Birds:	Not known.

**SECTION 13. DISPOSAL**

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents in accordance with state and local waste disposal regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal.

**SECTION 14. TRANSPORTATION**

D.O.T.:	Not D.O.T. Regulated.
Other Shipping Description:	Insecticides or Fungicides, N.O.I., Other Than Poison. NMFC Item 102120, LTL Class 60

**SECTION 15. REGULATORY INFORMATION**

CERCLA: Copper and its compounds is listed as a priority pollutant under the Clean Water Act and, as such, fall under the CERCLA spill reporting requirements of 40 CFR 302.

SARA TITLE III, Section 313 Toxic Chemicals: Copper compounds (22.49%)

PROPOSITION 65 (CA): None.

**SECTION 16. OTHER**

All information appearing in this document was based on data provided by third party sources and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date, but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.