



Safety Data Sheet

Report Date 27-May-15

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1. Identification

Product Name : Teprosyn Cu/P FL 9-15-0
Synonyms : None
Product Use : Nutritional Liquid Flowable Seed Treatment
Manufacturer/Supplier : Helena Chemical Company
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification



Signal Word : Warning
Skin Irritation : Causes skin irritation.
Eye Irritation : Causes serious eye irritation.
Acute Toxicity Oral : Not classified for Oral Toxicity.
Acute Toxicity Dermal : Not classified for Dermal Toxicity.

Hazard Categories : Eye Irritation-2A; Skin Irritation-2; Aquatic Toxicity (acute)-1; Aquatic Toxicity (chronic)-1

Hazard Statement : Causes skin irritation
Causes serious eye irritation
Very toxic to aquatic life
Very toxic to aquatic life with long lasting effects

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Copper Chloride Oxychloride	1332-65-6	>= 10 to < 12.5
2-Propenoic acid, homopolymer, sodium salt	9003-04-7	>= 1 to < 2
Inert ingredients	Proprietary	>= 85.5 to < 89
GUARANTEED ANALYSIS:		
Total Nitrogen (N): 9%		
9% Urea Nitrogen		
Available Phosphate (P2O5): 15%		
Copper (Cu): 6%		

4. First Aid Measures

Eye : Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

Skin : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

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 or doctor for further treatment advice.



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Ingestion : Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth if unconscious.

Indication of Immediate Medical Attention and Special Treatment Needed : In the event of an adverse response, treatment should be directed toward control of the symptoms.

5. Fire Fighting Measures

Extinguishing Media : Non-combustible liquid. Use extinguishing media suitable for underlying cause of fire. Use water spray to cool containers.

Specific Hazards Arising from the Chemical : Emits toxic fumes under fire conditions.

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Personal Precautions : Keep unprotected and unnecessary personnel out of spill area.

Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

Emergency Procedures : Dike spilled liquid to prevent spreading or entry into waterways, drains or sewers.

Methods and Materials for Containment and Cleanup : Absorb spilled product onto dry earth or sand. Collect and place in a closable, labeled salvage container for disposal by an appropriate method.

7. Handling and Storage

Precautions for Safe Handling : Keep locked up and out of reach of children. Do not contaminate water, food or feed by storage, handling or disposal. Keep container tightly closed. Do not allow water to be introduced into the contents of the container.

Conditions for Safe Storage : Store in original container only. Do not store near heat or open flame. Do not store with oxidizing agents or ammonium nitrate.

8. Exposure Controls / Personal Protection

TLV/PEL : No TLV or PEL for mixture.

Appropriate Engineering Controls : Good general ventilation should be sufficient.

Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

Odor/Appearance : Red liquid; undetermined odor.

Flash Point, °F : Non-combustible

Boiling Point, °F : Not determined

Melting Point(Freezing point), °C : <32 Degrees F.

Vapor Pressure, mm Hg @ 20 °C : Not determined

Vapor Density : No information found

Solubility in Water : Not determined

Molecular Formula : Not applicable, formulated mixture.



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Density, g/mL @ 25 °C : 1.585
Evaporation Rate(Butyl Acetate = 1) : Not determined
Octanol/Water Partition Coefficient : Not determined
pH : 8.0
Flammable Limits (approximate volume % in air) : Not determined
Auto-ignition Temperature : Not determined
Decomposition temperature : Not determined

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition Products : Thermal decomposition products may include carbon dioxide, carbon monoxide, nitrogen oxides, phosphorus oxides, metal oxide/oxides of ammonia.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid contamination by any source including metals, dust and organic materials.
Incompatible Materials : Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen trichloride.

11. Toxicological Information

Acute Toxicity (Oral LD50) : 812 mg/kg (rat)=Cu chloride hydroxide; >40,000 mg/kg (rat)=2-Propenoic acid, homopolymer, sodium salt
Acute Toxicity (Dermal LD50) : No LD50 available. No known significant effects or critical hazards.
Acute Toxicity Inhalation LC50 : No LC50 available. No known significant effects or critical hazards.
Likely Routes of Exposure : Skin and eyes
Skin Irritation : Causes skin irritation.
Eye Irritation : Causes serious eye irritation.
Skin Sensitization : Not a skin sensitizer.
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : None currently known.
Other Hazards : CA Prop 65 Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

12. Ecological Information

Ecotoxicity : Copper chloride hydroxide: LC50=0.217 mg/L/4 days (fish), EC50 0.29 mg/L/48 hours (Daphnia), LC50 56.3 mg/L/72 hours (aquatic plants). Very toxic to aquatic life with long lasting effects.
Persistence and Degradability : No known significant effects or critical hazards.
Bioaccumulative Potential : No known significant effects or critical hazards.
Mobility in Soil : No known significant effects or critical hazards.
Other Adverse Effects : No known significant effects or critical hazards.

13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.



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14. Transport Information

UN Proper Shipping Name : Not regulated by DOT. Regulated as a Marine Pollutant by air (IATA) or water (IMDG).
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : Marine Pollutant per GHS.
Transport in Bulk : No information found
Special Precautions for Transportation : If shipped by air (IATA) or water (IMDG), ship as: UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (dicopper chloride trihydroxide), 9, PG III, Marine Pollutant
Freight Classification : Compound, Fertilizer (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 1 Fire: 0 Reactivity: 0
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard Classification (Yes/No) :

Immediate(Acute) Health: Y
Delayed (Chronic) Health: N
Sudden Release of Pressure: N
Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 27-May-2015