

Report 07-May-15 Date

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Identification

Product Name : COPPER-Z 4/4

Synonyms: None

Product Use : Algicide/Herbicide

Manufacturer/Supplier: Helena Chemical Company

Address: 225 Schilling Blvd. Collierville, TN 38017

General Information: 901-761-0050

Transportation Emergency Number: CHEMTREC:800-424-9300

Hazard Identification



Signal Word : Danger

Skin Irritation : Slightly irritating

Eye Irritation: Moderately irritating with reversible

Acute Toxicity Oral : LD50 1,680 mg/kg (rat). Acute Toxicity Dermal: LD50 >2,020 mg/kg (rabbit).

Hazard Categories: Oral/Dermal/Inhalation Toxicity - 4/5/5; Eye Irritation - 1; Skin Irritation - 2

Hazard Statement : Harmful if swallowed

May be harmful in contact with skin Causes serious eye damage Causes skin irritation May be harmful if inhaled

Composition / Information on Ingredients

Weight % Component **CAS Number**

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.

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.

Attention and Special Treatment

Needed

Indication of Immediate Medical: Treatment should be directed toward control of the symptoms.

5. Fire Fighting Measures

Extinguishing Media: Not flammable. Use extinguishing media suitable for underlying cause of fire.



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Specific Hazards Arising from the: May produce toxic fumes under fire conditions.

Chemical

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. Use NIOSH-approved respirator with cartridge for ammonia. Evewash

and emergency shower should be available in work area.

Emergency Procedures: Do not contaminate water supplies.

Methods and Materials for : If uncontaminated, recover spilled product for reuse as intended. If

Containment and Cleanup contaminated, cover spilled product with inert absorbent, such as clay or sand.

Collect and place in suitable containers for proper disposal.

7. Handling and Storage

Precautions for Safe Handling: Keep out of reach of children. Do not contaminate water, food or feed by

storage, handling or disposal. Do not put concentrate or dilute into food or drink

containers.

Conditions for Safe Storage : Store in a cool, dry place. Keep container closed when not in use. Keep in

original container. Do not store or transport near feed or food.

8. Exposure Controls / Personal Protection

TLV/PEL: Copper sulfate pentahydrate TLV = 1 mg/m3 (as copper dust).

Appropriate Engineering Controls : Local exhaust is sufficient.

Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and

footwear. Use NIOSH-approved respirator with cartridge for ammonia. Eyewash

and emergency shower should be available in work area.

9. Physical and Chemical Properties

Odor/Appearance: Clear blue to black liquid; ammonia odor.

Flash Point, F: Non-combustible

Boiling Point, F: >100 Degrees C.

eezing point) C: No information foun.

Melting Point(Freezing point), °C : No information found

Vapor Pressure, mm Hg @ 20 °C : 21 mmHg

Vapor Density : Not established Solubility in Water : 97.50% soluble

Molecular Formula : Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.225-1.250

Evaporation Rate(Butyl Acetate = : No information found

1)

Octanol/Water Partition : No information found

Coefficient

pH : 7.9 to 8.2

Flammable Limits (approximate : No information found

volume % in air)

Auto-ignition Temperature : No information found **Decomposition temperature** : No information found



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10. Stability and Reactivity

Reactivity: No information found.

Chemical Stability: Stable

Hazardous Decomposition : Sulfur dioxide, oxides of carbon and ammonia under fire conditions.

Products

Hazardous Polymerization: Will not occur

Conditions to Avoid: None currently known.

Incompatible Materials: Product may react vigorously with alkaline materials.

11. Toxicological Information

Acute Toxicity (Oral LD50): 1,680 mg/kg (rat). Harmful if swallowed.

Acute Toxicity (Dermal LD50) : >2,020 mg/kg (rat). May be harmful in contact with skin.

Acute Toxicity Inhalation LC50 : >5.64 mg/L (rats exposed to undiluted aerosol). May be harmful if inhaled.

Likely Routes of Exposure : Eyes, skin, ingestion Skin Irritation : Causes skin irritation.

Eve Irritation: Causes serious eye damage. Moderately irritating with reversible necrosis.

Skin Sensitization: Not a contact sensitizer.

Carcinogenic : Not listed.

Chronic Effects : None currently known
Other Hazards : None currently known

12. Ecological Information

Ecotoxicity: No information found

Persistence and Degradability : No information found Bioaccumulative Potential : No information found Mobility in Soil : No information found

Other Adverse Effects: Marine pollutant per 49 CFR 172.101, Appendix B.

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.

14. Transport Information

UN Proper Shipping Name: Not regulated by DOT in packages </= 6 gallons.

Transport Hazard Class : None UN Identification Number : None Packaging Group : None

Environmental Hazards : Marine Pollutant (copper sulfate pentahydrate) - if shipped in any size package

by air (IATA) or water (IMDG), ship as UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Copper Sulfate Pentahydrate), 9, PG III, Marine

Pollutant

Transport in Bulk : If shipped in single package >6 gallons, ship as RQ, UN3082, Environmentally

Hazardous Substance, Liquid, n.o.s., (Copper Sulfate Pentahydrate), 9, PG III

(Add Marine Pollutant if bulk package).

Special Precautions for : No information found

Transportation

Freight Classification: Pesticides, NOI, Herbicides, Other than Poison (NMFC Item 155050, Sub 11,

Class 70)



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15. Regulatory Information

National Fire Protection :

Association Rating

Health: 2 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 N

Pressure: Fire: N Reactive: N

FIFRA Information : This Chemical is a pesticide product registered by the Environmental Protection Agency and is

subject to certain labelling 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:

EPA Registration Number : 5905-496

FIFRA Signal Word : Danger

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement : Corrosive.

FIFRA Label Statement : Causes irreversible eye damage.

FIFRA Label Statement : Harmful if swallowed.

FIFRA Label Statement : Harmful if absorbed through skin.

FIFRA Label Statement : Do not get in eyes, on skin or on clothing.

FIFRA Label Statement : No additional label statements.

16. Other Information

Data of Preparation/Revision: 07-May-2015