

Report 18-May-15 Date

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Identification

Product Name: CitriFLO 5-0-0

Synonyms: None

Product Use: Foliar Nutritional Formulation 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: Causes mild skin irritation. Eye Irritation: Causes eye irritation. Acute Toxicity Oral : May be harmful if swallowed. Acute Toxicity Dermal: May be harmful in contact with skin.

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

Hazard Statement : May be harmful if swallowed

May be harmful in contact with skin Causes serious eye damage

Causes severe skin burns and eye damage

May be harmful if inhaled

Composition / Information on Ingredients

CAS Number Weight % Component Blend of plant nutrients derived from 100.00 Proprietary urea, manganese chloride, zinc chloride

and kelp (Ascophyllum nodosum). **GUARANTEED ANALYSIS:** Total Nitrogen (N): 5.00% Manganese (Mn): 2.80% Zinc (Zn): 4.20%

First Aid Measures

Eye: Immediately flush eyes with water, continuing for 15 minutes. Seek medical

attention.

Skin: Immediately wash affected area with soap and water. If irritation persists, seek

medical attention.

Inhalation: Move to fresh air. If irritation develops or persists, seek medical attention. Ingestion: Wash out mouth with water. Do not give anything by mouth to drink. Do not

induce vomiting. Seek medical attention.

Indication of Immediate Medical : Treat symptomatically.

Attention and Special Treatment

Needed



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5. Fire Fighting Measures

Extinguishing Media: Non-combustible liquid. Use extinguishing agent suitable for underlying cause

of fire.

Specific Hazards Arising from the : May emit toxic and irritating gases under fire conditions.

Chemical

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

holding for contaminated fire-fighting water.

6. Accidental Release Measures

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

with skin and eyes.

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 material to prevent entry into lakes, streams, ponds and storm

drains.

Methods and Materials for : Collect spilled material using an inert absorbent and place in suitable container

Containment and Cleanup for proper disposal. Impacted soils may require removal and disposal.

7. Handling and Storage

Precautions for Safe Handling: Keep out of reach of children. Keep container tightly closed, do not allow water

to be introduced to the contents of this container. Do not contaminate water

sources by cleaning of equipment or disposal of spray waste.

Conditions for Safe Storage: Store out of frost (-10 Degress C) and if possible, in a cool place. Keep from

freezing. Store away from alkaline materials.

8. Exposure Controls / Personal Protection

TLV/PEL : No information found

Appropriate Engineering Controls : General or local exhaust normally 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: Slightly hazy orange liquid; slight odor.

Flash Point, 0 F : Non-combustible Boiling Point, 0 F : Not determined Melting Point(Freezing point), 0 C : Not determined Vapor Pressure, mm Hg @ 20 0 C : Not applicable

Vapor Density : Not applicable Solubility in Water : Soluble

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.224 to 1.234 Evaporation Rate(Butyl Acetate = : Not determined

1)

Octanol/Water Partition : No information found

Coefficient

pH: 0.5 to 1.0



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Flammable Limits (approximate : Not applicable

volume % in air)

Auto-ignition Temperature : Not determined Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity: No information found

Chemical Stability: Stable

Hazardous Decomposition : May release nitrogen oxides and chlorine under fire conditions.

Products

Hazardous Polymerization: Will not occur

Conditions to Avoid: None currently known.

Incompatible Materials : Avoid storage with flammable products and contact with alkaline materials.

11. Toxicological Information

Acute Toxicity (Oral LD50) : No data available. May be harmful if swallowed.

Acute Toxicity (Dermal LD50) : No data available. May be harmful in contact with skin.

Acute Toxicity Inhalation LC50 : No data available. May be harmful if inhaled.

Likely Routes of Exposure : Eyes, skin, ingestion

Skin Irritation: Causes severe skin burns and eye damage.

Eye Irritation: Causes serious eye damage.

Skin Sensitization: No information found

Carcinogenic: Not listed.

Chronic Effects: None currently known for this mixture.

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: No information found

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 D.O.T.

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

Environmental Hazards : No information found
Transport in Bulk : No information found



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Special Precautions for : Regulated if offiered for shipment by air (IATA) or water (IMDG): UN1760,

Transportation Corrosive Liquid, n.o.s., (Manganese Chloride, Zinc Chloride), 8, PG III "ERG #

154"

Freight Classification: Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item

68140, Sub 6, Class 70)

15. Regulatory Information

National Fire Protection : Association Rating

Health: 2 Fire: 1 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

16. Other Information

Data of Preparation/Revision: 18-May-2015