

Report 20-Apr-15

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#### 1. 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

#### 2. Hazard Identification

Signal Word : Warning (no symbol)
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 - 2B; Skin Irritation -

3

Hazard Statement : May be harmful if swallowed

May be harmful in contact with skin

Causes eye irritation Causes mild skin irritation May be harmful if inhaled

## 3. Composition / Information on Ingredients

Component

Blend of plant nutrients derived from
urea, manganese chloride, zinc chloride

ea, manganese chloride, zinc chloride and kelp (Ascophyllum nodosum). GUARANTEED ANALYSIS:

> Total Nitrogen (N): 5.00% Manganese (Mn): 2.80% Zinc (Zn): 4.20%

CAS Number Proprietary Weight % 100.00

#### 4. 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

# Fire Fighting Measures

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

of fire.



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Chemical

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

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

holding for contaminated fire-fighting water.

#### **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.

: Dike spilled material to prevent entry into lakes, streams, ponds and storm **Emergency Procedures** 

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

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

## **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.

## **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.

#### **Physical and Chemical Properties**

Odor/Appearance: Slightly hazy orange liquid; slight odor.

Flash Point, °F : Non-combustible Boiling Point, <sup>0</sup>F : Not determined

Melting Point(Freezing point), °C : Not determined Vapor Pressure, mm Hg @ 20 °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

Octanol/Water Partition : No information found

Coefficient

**pH**: 0.5 to 1.0

Flammable Limits (approximate : Not applicable

volume % in air)

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



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#### 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 mild skin irritation.

Eye Irritation : Causes eye irritation.

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

**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)



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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 : 20-April-2015