

Report 31-May-15 Date

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Identification

Product Name: QuickShot Max 4-0-0

Synonyms: None

Product Use : Chelated Micronutrients/Alpha Keto Acids/Alkanoate

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: Warning

Skin Irritation: Causes skin irritation.

Eye Irritation: Causes serious eye irritation.

Acute Toxicity Oral : LD50 = 1,520 mg/kg (ferrous sulfate heptahydrate)

Acute Toxicity Dermal : No data available.

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

STOT-Single Exposure-3; Oxidizer

Hazard Statement: May intensify fire; oxidizer

Harmful if swallowed

May be harmful in contact with skin Causes serious eye irritation Causes skin irritation

May be harmful if inhaled May cause respiratory irritation

Composition / Information on Ingredients

Component **CAS Number** Weight % Proprietary 90-95

Blend of plant nutrients derived from Ferrous Sulfate Heptahydrate, Zinc Nitrate Solution, Manganese Nitrate

Solution.

Also includes Alpha-Keto Acids and **Proprietary** 5-10

Alkanoates **GUARANTEED ANALYSIS:**

Total Nitrogen (N): 4.00% Iron (Fe): 0.50%

Manganese (Mn): 4.00%

Zinc (Zn): 4.00%

The chelating agent is Glucoheptonate.

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.



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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.

control of the symptoms.

Attention and Special Treatment

Needed

Indication of Immediate Medical : In the event of an adverse response, treatment should be directed toward

Fire Fighting Measures

Extinguishing Media: Non-combustible liquid. If involved in fire, use extinguishing agent suitable for

underlying cause of fire.

Specific Hazards Arising from the

Chemical

Oxidizer: May intensify fire. May react violently with combustible, organic or

readily oxidizable materials.

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

product increases the flammability of combustible, organic and

readily-oxidizable materials.

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 Methods and Materials for

Containment and Cleanup

Contain spilled product to prevent spreading to soil, waterways or drains. : If uncontaminated, collect and reuse as intended. If contaminated, collect with

an absorbent and place in suitable chemical waste containers for proper

disposal.

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. Store

away from combustible materials.

Exposure Controls / Personal Protection

TLV/PEL: Ferrous sulfate heptahydrate (Iron salts, soluble (as Fe)) TLV=1 mg/m3;

Manganese nitrate (Manganese compounds), PEL=5 mg/m3, TLV=0.2 mg/m3

Appropriate Engineering Controls : Local exhaust should be sufficient.

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

footwear. Respiratory protection not normally needed. Eyewash and emergency

shower should be available in work area.

Physical and Chemical Properties



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Odor/Appearance: Clear, dark red, brown to black liquid.

Flash Point, °F : Non-combustible
Boiling Point, °F : >100 Degrees C.

Melting Point(Freezing point), °C : <0 Degrees C.

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

Vapor Density: Not determined

Solubility in Water : Soluble

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.260-1.280

Evaporation Rate(Butyl Acetate = : Not determined

1)

Octanol/Water Partition : No information found

Coefficient

pH: 3.0 to 4.0

Flammable Limits (approximate : Not determined

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 produce oxides of carbon and nitrogen under fire conditions.

Products

Hazardous Polymerization: Will not occur

Conditions to Avoid: Avoid contact with strong alkalies. May react violently with combustible, organic

or readily oxidizable materials.

Incompatible Materials: Avoid materials that react with acidic or oxidizing materials.

11. Toxicological Information

Acute Toxicity (Oral LD50): 1,520 mg/kg (ferrous sulfate heptahydrate). Harmful if swallowed.

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

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

Likely Routes of Exposure : Skin, eyes, ingestion, inhalation.

Skin Irritation : Causes skin irritation.

Eye Irritation : Causes serious eye irritation.

Skin Sensitization : Not listed as a skin sensitizer.

Carcinogenic : Not listed by IARC, NTP or OSHA.

Chronic Effects: None currently known.

Other Hazards: May cause respiratory irritation (manganese nitrate).

12. Ecological Information

Ecotoxicity: No information found

Persistence and Degradability : No information found Bioaccumulative Potential : No information found

 $\begin{array}{c} \textbf{Mobility in Soil} \quad : \ \, \text{No information found} \\ \textbf{Other Adverse Effects} \quad : \ \, \text{No information found} \end{array}$

13. Disposal Considerations



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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. in accordance with 49 CFR 172.102 Special Provision

58.

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 : Reportable Quantity (RQ) for Zinc Nitrate=1,000 lbs/401 gallons; Ferrous

Transportation Sulfate Heptahydrate=1,000 lbs/3,773 gallons

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: 2

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: Y Reactive: N

16. Other Information

Data of Preparation/Revision: 31-May-2015