



Safety Data Sheet

Report Date 31-May-15

Page 1 of 4

1. Identification

Product Name : QHP + 0-3-0
Synonyms : None
Product Use : Bionutritional
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 : May cause irritation
Eye Irritation : May cause moderate to severe irritation
Acute Toxicity Oral : No data available. Not classified as hazardous by ingestion.
Acute Toxicity Dermal : No data available. Not classified as hazardous by skin absorption.

Hazard Categories : Eye/Skin Irritation-2A/2

Hazard Statement : Causes serious eye irritation
Causes skin irritation

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Proprietary blend of plant nutrients derived from Phosphoric Acid (CAS No. 7664-38-2). GUARANTEED ANALYSIS: Available Phosphate (P2O5): 3.00%	Proprietary	100.00

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.

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



Safety Data Sheet

Report Date 31-May-15

Page 2 of 4

- Extinguishing Media** : Non-combustible product. Use extinguishing media appropriate for underlying cause of fire.
- Specific Hazards Arising from the Chemical** : May emit oxides of carbon 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** : Do not contaminate water supplies, lakes, streams, ponds or drains with this product.
- Methods and Materials for Containment and Cleanup** : Contain spilled liquid, collect and reuse if uncontaminated. If contaminated, absorb with inert material, collect and place in suitable containers for proper disposal.

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** : Phosphoric acid: PEL=1 mg/m³; TLV=3 mg/m³
- Appropriate Engineering Controls** : Good general ventilation should be sufficient.
- Personal Protective Equipment** : 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.

9. Physical and Chemical Properties

- Odor/Appearance** : Hazy, light to medium gold liquid.
- Flash Point, °F** : Not applicable
- Boiling Point, °F** : Not determined
- Melting Point(Freezing point), °C** : Not determined
- Vapor Pressure, mm Hg @ 20 °C** : Not determined
- Vapor Density** : Not determined
- Solubility in Water** : Solubel
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.03-1.05
- Evaporation Rate(Butyl Acetate = 1)** : Not determined
- Octanol/Water Partition Coefficient** : No information found
- pH** : 2.1 to 3.1
- Flammable Limits (approximate volume % in air)** : Not applicable
- Auto-ignition Temperature** : Not applicable
- Decomposition temperature** : No information found



Safety Data Sheet

Report Date 31-May-15

Page 3 of 4

10. Stability and Reactivity

- Reactivity** : Not normally reactive
- Chemical Stability** : Stable
- Hazardous Decomposition** : Oxides of carbon, boron and phosphorus and unknown materials.
- Products**
- Hazardous Polymerization** : Will not occur
- Conditions to Avoid** : Extreme heat or freezing temperatures. Phosphoric acid may react with metals to liberate flammable hydrogen gas.
- Incompatible Materials** : Strong oxidizing agents, alkaloid salts, metallic salts and strong acids.

11. Toxicological Information

- Acute Toxicity (Oral LD50)** : No data available.
- Acute Toxicity (Dermal LD50)** : No data available.
- Acute Toxicity Inhalation LC50** : No data available.
- Likely Routes of Exposure** : Skin and eyes.
- 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** : 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 DOT, per 49 CFR 173.154(d). See Transportation Note.
- Transport Hazard Class** : None
- UN Identification Number** : None
- Packaging Group** : None
- Environmental Hazards** : No information found
- Transport in Bulk** : Reportable Quantity (RQ) for phosphoric acid = 5,000 lbs.
- Special Precautions for Transportation** : May be regulated as a dangerous good if shipped by air (IATA) or water (IMDG).
- Freight Classification** : Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)



Safety Data Sheet

Report Date 31-May-15

Page 4 of 4

15. Regulatory Information

National Fire Protection Association Rating :

Health: 2 Fire: 1 Reactivity: 1
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 : 31-May-2015