

Report 30-Apr-15 Date

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Identification

Product Name: NutrAsyst Concentrate 0-0-3

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

Hazard Identification



Signal Word: Warning

Skin Irritation: Causes skin irritation.

Eve Irritation: Causes serious 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 - 2A; Skin Irritation -

Hazard Statement: May be harmful if swallowed

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

May be harmful if inhaled

Composition / Information on Ingredients

Component **CAS Number** Weight % Fulvic Acid 20-22 Proprietary Potassium Hydroxide 1310-58-3 3-4 Nonhazardous ingredients **Proprietary** 74-77 **GUARANTEED ANALYSIS:**

Soluble Potash (K2O): 3% Derived from Potassium Hydroxide and Potassium Chloride.

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

Indication of Immediate Medical : If product is being mixed with pesticides and/or spray adjuvants, follow all precautionary statements on the accompanying product(s) labeling. Treat

symptomatically. Needed



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Fire Fighting Measures

Extinguishing Media: Use water fog, chemical foam, carbon dioxide or dry chemical extinguishing

Specific Hazards Arising from the

Chemical

Hazardous decomposition materials include oxides of carbon and unknown

materials. Potassium hydroxide may react with metals to liberate flammable

hydrogen gas.

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

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 or

coveralls, impervious footwear. Respiratory protection is not normally needed.

Eyewash and emergency shower should be available in work area.

: Contain spilled product by diking. Do not contaminate water supplies, lakes, **Emergency Procedures**

streams, ponds, sewers or drains.

Methods and Materials for :

If uncontaminated, collect and reuse as intended. If contaminated, absorb material with an inert absorbent, such as clay, sand or sawdust. Collect and **Containment and Cleanup**

place in suitable containers for proper disposal.

Handling and Storage

Precautions for Safe Handling: Keep locked up and out of reach of children. Keep container tightly closed. Do

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

contaminate water, food or feed by storage, handling or disposal.

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.

Exposure Controls / Personal Protection

TLV/PEL: Potassium Hydroxide - 2 mg/m3 STEL ACGIH TLV. Fulvic Acid Solution - no

TLV/PEL established.

Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation.

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

coveralls, impervious footwear. Respiratory protection is not normally needed.

Eyewash and emergency shower should be available in work area.

Physical and Chemical Properties

Odor/Appearance: Orange to brownish liquid; no appreciable odor.

Flash Point, ⁰F : Non-combustible 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 : Dispersible

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.035-1.069 Evaporation Rate(Butyl Acetate = : Not determined

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Octanol/Water Partition : No information found

Coefficient

pH : <11.0

Flammable Limits (approximate : Not determined

volume % in air)

Auto-ignition Temperature : Not determined Decomposition temperature : Not determined

10. Stability and Reactivity

Reactivity: Not normally reactive

Chemical Stability: Stable

Hazardous Decomposition : Oxides of carbon and unknown materials.

Products

Hazardous Polymerization: Will not occur

Conditions to Avoid : Avoid extreme heat or freezing temperatures. Store away from metals and in

original containers.

Incompatible Materials: Metals and strong oxidizing agents. Potassium hydroxide may react with metals

to liberate flammable hydrogen gas.

11. Toxicological Information

Acute Toxicity (Oral LD50) : No data available. May cause gastrointestinal irritation, abdominal pain, nausea,

vomiting, diarrhea.

Acute Toxicity (Dermal LD50) : No data available.

Acute Toxicity Inhalation LC50 : No data available. May cause mucous membrane and respiratory irritation.

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

Skin Irritation: May cause irritation. Prolonged exposure may cause irritation, dermatitis, or

defatting of skin tissues.

Eye Irritation: May cause severe irritation. May cause temporary corneal damage.

Skin Sensitization : Not know to cause sensitization.

Carcinogenic : Not listed by IARC, NTP or OSHA.

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

12. Ecological Information

Ecotoxicity: Potassium Hydroxide: 96 hour LC50 Mosquito fish - 80 mg/L

Persistence and Degradability : No data available
Bioaccumulative Potential : No data available
Mobility in Soil : No data available

Other Adverse Effects : None known

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, IATA or IMDG.



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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 : None

Transportation

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: 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

16. Other Information

Data of Preparation/Revision: 30-April-2015