

Report 12-May-15 Date

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Identification

Product Name: NutrAsyst (National)

Synonyms: None

Product Use : Fertilizer Additive

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. Prolonged exposure may cause irritation

dermatitis, or defatting of tissues.

Eye Irritation: May cause moderate to severe eye irritation with pain and tearing.

Acute Toxicity Oral : Not hazardous by ingestion. Acute Toxicity Dermal: Not hazardous by skin absorption.

Hazard Categories: Eye Irritation - 2A; Skin Irritation - 2; STOT, Single Exposure, Respiraotry

irritation - 3

Hazard Statement : Causes serious eye irritation

Causes skin irritation

May cause respiratory irritation

Composition / Information on Ingredients

CAS Number Component Weight % Fulvic acid solution Proprietary 5.00 Other ingredients 95.00 Proprietary

First Aid Measures

Eve: 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 : In the event of an adverse response, treatment should be directed toward

Attention and Special Treatment control of the symptoms.

Needed

5. Fire Fighting Measures



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Extinguishing Media: Aqueous solution - non-combustible. Use extinguishing media suitable for

underlying cause of fire.

Specific Hazards Arising from the : At extreme temperatures, carbon monoxide, an oxidation product, may be

Chemical evolved.

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 : Contain spilled product to prevent spreading to soil, waterways, drains or

sewers.

Methods and Materials for : If uncontaminated, collect and reuse as intended. If contaminated, absorb

Containment and Cleanup material with an inert material, such as clay, sand or sawdust. Collect and place

in suitable containers for proper disposal.

7. Handling and Storage

Precautions for Safe Handling : Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Avoid

breathing vapors. Keep containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Ensure all containers

are labeled.

Conditions for Safe Storage : Store in a cool, well-ventilated area away from heat and incompatible materials.

8. Exposure Controls / Personal Protection

TLV/PEL: No TLV/PEL established for Fulvic Acid. TLV=1 mg/m3 and PEL=1 mg/m3 for

Phosphoric Acid.

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

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: Clear to slightly hazy liquid with amber tint.

Flash Point, °F : 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 : Soluble in water

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 0.993-1.023 Evaporation Rate(Butyl Acetate = : Not determined

1)

Octanol/Water Partition : No information found

Coefficient

pH: 2.1 to 2.6

Flammable Limits (approximate : Not determined

volume % in air)

Auto-ignition Temperature : Not determined



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Decomposition temperature: Not determined

10. Stability and Reactivity

Reactivity: Not normally reactive

Chemical Stability: Stable

Hazardous Decomposition : Oxides of carbon and phosphorus 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 container.

Incompatible Materials : Metals and strong oxidizing agents.

11. Toxicological Information

Acute Toxicity (Oral LD50): No LD50 for mixture. Gastrointestinal irritation, abdominal pain, nausea,

vomiting, diarrhea may oc.

Acute Toxicity (Dermal LD50) : No toxicity hazard by skin absorption.

Acute Toxicity Inhalation LC50 : No LC50 available. May cause irritation of the upper respiratory tract.

Likely Routes of Exposure: Skin, eyes, inhalation

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

defatting of skin tissues.

Eye Irritation: May cause moderate to severe irritation with pain and tearing.

Skin Sensitization: This material is not known 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: 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, IATA or IMDG.

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 : No information found

Transportation



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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: 12-May-2015