

Report 04-Jun-15

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1. Identification

Product Name: HYDRA-HUME 0-0-1 TURF & ORNAMENTAL

Synonyms: None

Product Use : Inorganic Fertilizer

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 moderate skin irritation.

Eye Irritation : May cause moderate to severe eye irritation.

Acute Toxicity Oral : LD50 (rat) - 333 mg/kg (potassium hydroxide)

Acute Toxicity Dermal : No data available

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

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

3. Composition / Information on Ingredients

ComponentCAS NumberWeight %Humic Acid SolutionProprietary</= 12</td>Potassium Hydroxide1310-58-31Non-hazardous ingredients>/= 87

4. First Aid Measures

Eye: Immediately flush eyes with plenty of water for several minutes while holding the

eyelids apart. Remove contact lenses, if present and easy to do. Get medical

attention if irritation persists.

Skin: Remove contaminated clothing. Wash skin thoroughly with soap and water for

several minutes. Get medical attention if irritation occurs and persists. Launder

clothing before re-use.

Inhalation: Remove victim to fresh air. Get medical attention if symptoms occur and persist.

Ingestion: Do not induce vomiting. Rinse mouth with water and give one glass of water to

drink. Get medical attention if symptoms develop.

Attention and Special Treatment

Needed

Indication of Immediate Medical : Immediate medical attention should not be required. Treat symptomatically.

5. Fire Fighting Measures

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



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Chemical

Specific Hazards Arising from the : None known. 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 for all fires involving chemicals. Aqueous solutions may cause surfaces to be extremely

slippery and cause a slip hazard.

Accidental Release Measures

Personal Precautions : Avoid contact with the eyes. Avoid prolonged skin contact.

: Wear appropriate protective clothing. **Protective Equipment**

Emergency Procedures : Aqueous solutions may cause surfaces to be extremely slippery and cause a

slip hazard.

Containment and Cleanup

Methods and Materials for : Contain and collect free liquid where possible. Neutralize small spills and residues and collect using an inert absorbent material and place in appropriate containers for disposal. Prevent spill from entering sewers and water courses.

Report releases as required by local, state and federal authorities.

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 and leaks, etc.) readily available. Ensure all containers are labeled. Do not reuse containers. Empty containers retain

product residues which can be hazardous.

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

Exposure Controls / Personal Protection

TLV/PEL: 2 mg/m3 STEL ACGIH TLV (potassium hydroxide)

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

Personal Protective Equipment : Wear impervious gloves, chemical safety glasses with side shields or goggles,

impervious coveralls, apron and boots. Suitable washing facilities should be available. Use NIOSH-approved respirator with dust/mist cartridges if needed.

Physical and Chemical Properties

Odor/Appearance: Dark brown liquid, undetermined odor.

Flash Point, °F : Not available Boiling Point, °F : Not determined Melting Point(Freezing point), °C : Not available

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: 1.025-1.050 (8.66 lbs/gal)

Evaporation Rate(Butyl Acetate = : Not determined

1)

Octanol/Water Partition : Not determined

Coefficient

pH: 9.59-10.98

Flammable Limits (approximate : Not applicable

volume % in air)

Auto-ignition Temperature : Not applicable



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Decomposition temperature: Not determined

10. Stability and Reactivity

Reactivity: Not normally reactive

Chemical Stability: Stable

Hazardous Decomposition : May emit oxides of carbon and unknown materials. Potassium hydroxide may

Products react with metals to liberate flammable hydrogen gas.

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) : 333 mg/kg (rat) - potassium hydroxide; no data available for Humic Acid

Solution

Acute Toxicity (Dermal LD50) : No data available
Acute Toxicity Inhalation LC50 : No data available
Likely Routes of Exposure : Skin and eyes

Skin Irritation: May cause skin 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 : Not a skin sensitizer
Carcinogenic : None currently known.
Chronic Effects : No data available
Other Hazards : No data available

12. Ecological Information

Ecotoxicity: 96 hr LC50 (Mosquito fish) - 80 mg/L (potassium hydroxide); no data available

for Humic Acid Solution

Persistence and Degradability : No data available
Bioaccumulative Potential : No data available
Mobility in Soil : No data available
Other Adverse Effects : Nonr 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.

Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : None known

Transport in Bulk : No information available



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Special Precautions for : None known

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: 04-June-2015