

Report Date 04-Jun-15

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1. Identification

Product Name	: HYDRA-HUME T&O (CA)
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



Eye Irritation	 May cause moderate skin irritation. May cause moderate to severe eye irritation. LD50 (rat) - 333 mg/kg (potassium hydroxide)
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

Component Humic Acid Solution	CAS Number Proprietary	Weight % = 12.00</th
Potassium Hydroxide	1310-58-3	1.00
Inert ingredients	Proprietary	87.00

4. First Aid Measures

Еуе	: 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.
Indication of Immediate Medical	: Immediate medical attention should not be required. Treat symptomatically.
Attention and Special Treatment	
Needed	

5. Fire Fighting Measures



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Specific Hazards Arising from the Chemical	: 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.

6. Accidental Release Measures

Personal Precautions Protective Equipment	: Avoid contact with the eyes. Avoid prolonged skin contact. : Wear appropriate protective clothing.
Emergency Procedures	: Aqueous solutions may cause surfaces to be extremely slippery and cause a slip hazard.
Methods and Materials for	: Contain and collect free liquid where possible. Neutralize small spills and
Containment and Cleanup	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.

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 and leaks, etc.) readily available. Ensure all
Conditions for Safe Storage	containers are labeled. Do not reuse containers. Empty containers retain product residues which can be hazardous. : Store in a cool, well-ventilated area away from heat and incompatible materials.

8. 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.

9. Physical and Chemical Properties

Odor/Appoarance		Dark brown liquid, undetermined odor.
		· ·
Flash Point, ⁰ F		
Boiling Point, ^o F		
Melting Point(Freezing point), °C	:	Not available
Vapor Pressure, mm Hg @ 20 ºC	:	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



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 react with metals to liberate flammable hydrogen gas. 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) : 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

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
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 Transportation	: None known
	: Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)

National Fire Protection Association Rating : Health: 2 Fire: 0 Reactivity: 0 Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minim Classification (Yes/No) Immediate(Acute) Health: Y	
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S.A.R.A Title III Hazard : Classification (Yes/No) Immediate(Acute) Health: Y	
S.A.R.A Title III Hazard : Classification (Yes/No) Immediate(Acute) Health: Y	າum)
Delayed (Chronic) Health: N	
Sudden Release of N	
Pressure:	
Fire: N	
Reactive: N	

16. Other Information

Data of Preparation/Revision : 04-June-2015