

Material Safety Data Sheet

Effective Date: 02-JAN-2004
Product: HYDRA HUME AF (CALIFORNIA)

I. IDENTIFICATION

Chemical Name: Liquid Humic Acids Extract
Chemical Family: Inorganic Fertilizer
Formula: Not applicable, formulated mixture
Synonyms: None
CAS Number: See Ingredient Statement, Section III
EPA Number: None Required

II. PHYSICAL DATA

Boiling Point: >100 Degrees C.
Freezing Point: <20 Degrees F.
Spec Gravity: 1.000 gms/CC
Vapor Pressure: 570 mm HG
Vapor Density: Not determined
Solubility: 99%
Volatiles: 0.50%
Evaporation: Not applicable
Melting Point: Not applicable
Appearance: Dark brown liquid, ammonia odor

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Proprietary blend of Potassium Hydroxide, Ammonium Hydroxide, Phenolic Hydrocarbons and Emulsifiers		100.00	15 MG/M3	Skin & Eye Irritant

Typical Composition: Soluble Potash (K2O) - 0.50%; Humic Acid - 0.50%

IV. FIRE AND EXPLOSION HAZARD

Flash Point: NA - Aqueous Solution
Autoignition Temp: Not applicable
Flammable Limit: Not applicable
Extinguishing Media: Non-combustible liquid. Use extinguishing media for underlying cause of fire.
Special Fire Fight Proc: Wear self-contained breathing apparatus and full protective equipment. Use water spray to keep fire-exposed containers cool.
Fire and Expl Hazard: Product may produce toxic fumes under fire conditions.

Material Safety Data Sheet

Effective Date: 02-JAN-2004
Product: HYDRA HUME AF (CALIFORNIA)

V. HEALTH HAZARD

Carcinogen Information: None currently known.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: Possible stomach disorders if taken orally. No Oral LD50 has been established.
Skin Absorption: None currently known. No Dermal LD50 has been established.
Inhalation: If in mist form, may cause slight irritation. No Inhalation LC50 has been established.
Skin contact: Possible skin reddening if not washed off of affected area.
Eye Contact: This product may cause eye irritation.
Chronic Effects: None currently known.
Other Hazard: None currently known.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: If conscious, give milk or water to drink. Induce vomiting. Obtain medical attention if irritation develops.
Skin: Wash skin thoroughly with soap and water. Obtain medical attention if irritation develops.
Inhalation: Move to fresh air. Obtain medical attention if irritation develops.
Eyes: Flush eyes with water for 15 minutes, holding eyelids open. Obtain medical attention if irritation develops.
Notes to Physician: In the event of an adverse response, treatment should be directed toward control of the symptoms and the clinical condition of the patient.

VI. REACTIVITY

Stability: Stable
Conditions to Avoid: None currently known.
Polymerization: Will Not Occur
Conditions to Avoid: None currently known.
Incompatibility material: Neutralization reaction will occur if exposed to acidic materials.
Hazardous Combustion: At extreme temperatures, CO and oxidation product may be evolved.

Material Safety Data Sheet

Effective Date: 02-JAN-2004
Product: HYDRA HUME AF (CALIFORNIA)

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: Contain product, reuse material if uncontaminated. If contaminated, absorb material with an absorbent such as clay or sand, and place in suitable container for proper disposal.

Waste Disposal Method: This material must be disposed of according to federal, state or local procedures under the Resource Conservation and Recovery Act.

VIII. SPECIAL PROTECTION INFORMATION

Respiration: None needed under normal conditions.
Ventilation: Local exhaust sufficient
Gloves: Rubber or plastic
Eyes: Chemical goggles
Other: Eyewash, shower, impervious apron and footwear.

IX. SPECIAL PRECAUTIONS

Special precaution: Keep out of reach of children. Do not store with food, feed, or other material to be used or consumed by humans or animals. Do not contaminate water supplies, lakes, streams or ponds.

Other precaution: This product does not contain any chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

X. SHIPPING INFORMATION

Shipping name: Not regulated by DOT, IATA (air), or IMDG (water).

Hazard Class: None
Identification No: None
Labels Required: None Required
Placarding: None Required
Freight Class: Compound, Fertilizer (Manufactured Fertilizer), Liquid, NOIBN

Helena Chemical Company
PH: 901-761-0050
CHEMTREC: 800-424-9300

12-JAN-2004 14:24:11
Page 4 Of 4

Material Safety Data Sheet

Effective Date: 02-JAN-2004
Product: HYDRA HUME AF (CALIFORNIA)

Chemical Name	Equivalent R.Q.
Not applicable	Not applicable

XI. GENERAL PRODUCT INFORMATION

National Fire Protection Association Rating:
(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 1 Fire: 0 Reactivity: 0

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	

Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017
Helena Chemical Company believes that the data contained herein is factual.
This data is not to be taken as a warranty or representation of legal
responsibility. It is offered solely for your consideration, investigation
and verification.