

Material Safety Data Sheet

Effective Date: 30-JUN-2005
Product: HYDRA-BLUME 4-0-8

I. IDENTIFICATION

Chemical Name: Plant Nutrients plus Humic Acids
Chemical Family: Plant Nutrients
Formula: Not applicable, formulated mixture.
Synonyms: None
CAS Number: Not applicable, formulated mixture.
EPA Number: None required

II. PHYSICAL DATA

Boiling Point: Not applicable
Freezing Point: Not applicable
Spec Gravity: Not applicable
Vapor Pressure: Not applicable
Vapor Density: Not applicable
Solubility: Soluble
Volatiles: Not determined
Evaporation: Not applicable
Melting Point: Not determined
Appearance: Dark brown to black powder; earthy odor.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Proprietary blend of plant nutrients, derived from urea and potassium hydroxide, and non-plant food ingredients, including humic acids, derived from Leonardite.		100.00	N/E	Skin, eye and respiratory irritant.

Typical Composition:
Total Nitrogen (N): 4.00%
Soluble Potash (K2O): 8.00%
Humic Acids: 30.00%
Inert Ingredients: 58.00%

IV. FIRE AND EXPLOSION HAZARD

Flash Point: Non-combustible
Autoignition Temp: Not determined
Flammable Limit: Not determined
Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide extinguishing agents.

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Special Fire Fight Proc: Wear self-contained breathing apparatus and
full protective clothing.
Fire and Expl Hazard: None currently known.

V. HEALTH HAZARD

Carcinogen Information: Not listed.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: No Oral LD50 has been determined. May cause
stomach disorders (cramping, nausea, diarrhea)
if ingested.
Skin Absorption: No Dermal LD50 has been determined. Not
believed to be an absorption hazard.
Inhalation: No Inhalation LC50 has been determined. May
cause lung congestion and respiratory
irritation if spray mists are inhaled.
Skin contact: May cause skin reddening if not washed off
affected areas after contact.
Eye Contact: If there is eye contact with the undiluted
product (powder), may cause mechanical
irritation.
Chronic Effects: None currently known.
Other Hazard: None currently known.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: Drink 1 to 2 glasses of water to dilute. Seek
medical attention.
Skin: Wash affected area with soap and water. If
irritation persists, seek medical treatment.
Inhalation: Move to fresh air. If irritation persists, seek
medical treatment.
Eyes: Flush eyes with water for at least 15 minutes.
If irritation develops, seek medical treatment.
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. If this material was used in a spray
solution with pesticides, consult the
pesticide labels for treatment advice.

VI. REACTIVITY

Stability: Stable

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

01-JUL-2005 15:05:03
Page 3 Of 4

Material Safety Data Sheet

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Conditions to Avoid: None currently known.
Polymerization: Will Not Occur
Conditions to Avoid: None currently known.
Incompatibility material: Neutralization reaction may occur if exposed to
acidic materials.
Hazardous Combustion: May produce oxides of nitrogen under fire
conditions.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: Sweep up small spills and reuse product, if
uncontaminated. If contaminated, collect and
place in a 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: NIOSH-approved dust mask, if needed.
Ventilation: Natural ventilation is usually adequate.
Gloves: Rubber or plastic gloves.
Eyes: Chemical goggles.
Other: Eyewash and emergency shower should be
available.

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. Store in a cool,
dry area. Do not contaminate water supplies,
lakes, streams or ponds with this product.
Other precaution: None currently known.

X. SHIPPING INFORMATION

Shipping name: Not regulated by DOT, IATA or IMDG.
Hazard Class: None
Identification No: None
Labels Required: None required
Placarding: None
Freight Class: Compound, Fertilizer (Manufactured Fertilizer),

01-JUL-2005 15:05:03
Page 4 Of 4

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Chemical Name	Solid, NOIBN	Equivalent R.Q.
Not applicable		Not applicable

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
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