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CHEMTREC: 800-424-9300

Material Safety Data Sheet

Effective Date: 08-SEP-2005 Product: HELENA 19-1-6

I. IDENTIFICATION

Chemical Name: Foliar Nutritional Blend

Chemical Family: Liquid Fertilizer

Formula: Not applicable, formulated mixture.

Synonyms: None

CAS Number: Not applicable, formulated mixture.

EPA Number: None required

II. PHYSICAL DATA

._____

Boiling Point: Not determined Freezing Point: Not determined

Spec Gravity: 1.210 - 1.230 gms/cc

Vapor Pressure: Not determined Vapor Density: Not determined

Solubility: 100%

Volatiles: Not determined Evaporation: Not determined Melting Point: Not applicable

Appearance: Clear, brown to black liquid.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Proprietary blend of plant nutrients derived from Urea, Potassium Polyphosphate and Potassium Nitrate.		100.00	N/E	Skin, eye and respiratory irritant.

IV. FIRE AND EXPLOSION HAZARD

Flash Point: Non-combustible Autoignition Temp: Not determined Flammable Limit: Not determined

Extinguishing Media: Non-combustible liquid. Use extinguishing media

suitable for underlying cause of fire.

Special Fire Fight Proc: Wear self-contained breathing apparatus and

full protective clothing. Prevent runoff of fire fighting water to avoid contamination of

water supplies.

Fire and Expl Hazard: May produce toxic and irritating fumes under

fire conditions.

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V. HEALTH HAZARD

Carcinogen Information: Not currently listed.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: Due to low pH, may cause corrosive damage to mouth, throat, esophagus and digestive tract if

swallowed.

Skin Absorption: May be harmful if absorbed through skin.

Inhalation: Inhalation of spray mists may cause irritation

or damage to mucous membranes.

Skin contact: May cause damage or irritation to skin with

contact.

Eye Contact: May cause severe damage to eyes with direct

contact.

Chronic Effects: None currently known. Other Hazard: None currently known.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: Do not induce vomiting. Give one or two glasses

of water or milk to drink. Seek immediate

medical attention.

Skin: Immediately wash affected area with soap and

water. If irritation persists, seek medical

attention.

Inhalation: Move to fresh air. If irritation persists, seek

medical attention.

Eyes: Immediately flush eyes with water, holding

eyelids wide open. Seek medical treatment,

preferably by an ophthalmologist.

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: Avoid contact with alkali or basic materials. Hazardous Combustion: May generate toxic and irritating fumes under

fire conditions.

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VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: Isolate spill area. Use an inert absorbent, such as clay or sand, to recover spilled

material. Sweep or shovel contaminated absorbent into containers 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: Use NIOSH-approved mask for mists.

Ventilation: General and/or local exhaust sufficient.

Gloves: Impervious.

Eyes: Splashproof goggles.

Other: Eyewash station, emergency shower, impervious

clothing and boots.

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. Store in original containers, away from

strong bases or alkali materials.

Other precaution: The pH of this mixture is 2.7 to 3.1 - may have

a corrosive effect with direct contact.

X. SHIPPING INFORMATION

Shipping name: Not regulated by D.O.T.

Hazard Class: None Identification No: None

Labels Required: None required

Placarding: None

Freight Class: Compound, Fertilizer (Manufactured Fertilizer),

Liquid, NOIBN (NMFC Item 68140, Sub 6, Class

70)

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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: 2 Fire: 1 Reactivity: 1

S.A.R.A. Title III Hazard Classification: (Yes/No)

Delayed (Chronic) Health: N Immediate (Acute) Health: Y

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.