Helena Chemical Company 14-APR-2010 09:05:13 PH: 901-761-0050 Page 1 Of 4

CHEMTREC: 800-424-9300

Material Safety Data Sheet

Effective Date: 15-MAR-2010

Product: ELE-MAX TURF MAG AC (10-0-0 with 4% Fe & 2% Mg)

I. IDENTIFICATION

Chemical Name: Urea, Ferrous Sulfate and Magnesium Sulfate

Chemical Family: Inorganic liquid fertilizer

Formula: Not applicable, formulated mixture.

Synonyms: None

CAS Number: Not applicable, formulated mixture.

EPA Number: None required

II. PHYSICAL DATA

Boiling Point: >212 Degrees F. Freezing Point: <32 Degrees F. Spec Gravity: 1.341 gms/cc Vapor Pressure: Not determined Vapor Density: Not determined

> Solubility: 99% Volatiles: <0.1%

Evaporation: Not applicable Melting Point: Not applicable

Appearance: Clear, light green liquid with sulfurous odor.

100.00 5 mg/m3 Skin & eye

irritant.

III. INGREDIENTS

CAS Number Percent TLV Hazard Material

Blend of Urea Nitrogen, Ferrous Sulfate Heptahydrate,

Magnesium Sulfate and Water.

GUARANTEED ANALYSIS:

Total Nitrogen (N): 10.00%

Sulfur (S): 5.50% Iron (Fe): 4.00% Magnesium (Mg): 2.00%

IV. FIRE AND EXPLOSION HAZARD

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

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.

Fire and Expl Hazard: May decompose on heating to emit oxides of

Helena Chemical Company 14-APR-2010 09:05:13 Page 2 Of 4

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nitrogen and sulfur.

V. HEALTH HAZARD

Carcinogen Information: Not listed by IARC, NTP or OSHA.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: Ingestion results in vomiting and abdominal

cramps.

Skin Absorption: None currently known.

Inhalation: May cause minor irritation to the mucous

membranes if spray mists are inhaled.

Skin contact: Repeated or prolonged exposure may cause minor

irritation.

Eye Contact: Direct contact with liquid will cause eye

irritation.

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

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: Immediately drink a large amount of water and

induce vomiting. Consult a physician or poison control center for further treatment advice.

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 at least 15 minutes,

holding the eyelids open. Obtain medical attention if irritation develops or persists.

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: Avoid storage in areas of extreme heat.

Polymerization: Will Not Occur

Conditions to Avoid: None currently known.

Incompatibility material: Avoid contact with hypochlorite bleach, strong

acids and alkalies.

14-APR-2010 09:05:13 Page 3 Of 4

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

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Hazardous Combustion: May produce nitrogen oxide, sulfur oxides and

carbon oxides under fire conditions.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: Contain spilled product. If uncontaminated,

collect and reuse as labeled. If contaminated, absorb free liquids with an inert absorbent, such as clay or sand, then collect and place in suitable containers for proper disposal. Do not contaminate water supplies, lakes, streams,

ponds or drains with this product.

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 normally needed. Use NIOSH-approved

respirator when mist concentrations exceed

permissible exposure limits or TLV.

Ventilation: Local exhaust normally sufficient.

Gloves: Impervious gloves.

Eyes: Splashproof goggles or face shield.

Other: Eyewash station, impervious apron and footwear.

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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,

ponds or drains with this product.

Other precaution: None currently known.

X. SHIPPING INFORMATION

Shipping name: Not regulated by DOT unless 449.44 gallons

shipped in a single container.

Hazard Class: None Identification No: None

Labels Required: None required

Placarding: None

Freight Class: Compound, Fertilizer (Manufactured Fertilizer),

Helena Chemical Company 14-APR-2010 09:05:13 PH: 901-761-0050 Page 4 Of 4

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

70)

Chemical Name

Equivalent R.Q.

_____ 1,000 lbs/449.44 gallons

Ferrous Sulfate Heptahydrate

TRANSPORTATION NOTE:

If shipped in single package >/= 449.44 gallons, ship as:

UN3082, RQ, Environmentally Hazardous Substance, Liquid, n.o.s. (Ferrous

Sulfate), 9, PG III "ERG # 171"

XI. GENERAL PRODUCT INFORMATION

National Fire Protection Association Rating:

(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum

Health: 2 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.

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