



Safety Data Sheet

Report Date 31-May-23

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1. Identification

Product Name : FULLSCALE (IL, WI)
Synonyms : None
Product Use : Ammonia Free Nutrient Solution
Manufacturer/Supplier : Helena Agri-Enterprises, LLC
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification

Signal Word : None (no symbol)
Skin Irritation : Not classified as hazardous under 29 CFR 1910.1200 (2012)
Eye Irritation : Not classified as hazardous under 29 CFR 1910.1200 (2012)
Acute Toxicity Oral : Not classified as hazardous under 29 CFR 1910.1200 (2012)
Acute Toxicity Dermal : Not classified as hazardous under 29 CFR 1910.1200 (2012)

Hazard Categories : Not classified as hazardous under 29 CFR 1910.1200 (2012)

Hazard Statement : Not Hazardous

3. Composition / Information on Ingredients

| Component | CAS Number | Weight % |
|--|-------------|----------|
| Water solution of plant nutrients derived from urea, corn stillage, corn steep liquor, sodium molybdate, manganese EDTA, zinc EDTA and kelp. | Proprietary | 100.00 |
| GUARANTEED ANALYSIS: | | |
| Total Nitrogen (N): | | 3.0% |
| 2.0% Urea Nitrogen | | |
| 1.0% Other Water Soluble Nitrogen | | |
| Soluble Potash (K ₂ O): | | 3.0% |
| Manganese (Mn): | | 0.5% |
| 0.5% Chelated Manganese | | |
| Molybdenum (Mo): | | 0.2% |
| Zinc (Zn): | | 0.5% |
| 0.5% Chelated Zinc | | |

4. First Aid Measures

Eye : Rinse eyes with water, hold eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Skin : Immediately take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash the body thoroughly.

Inhalation : Remove victim to fresh air and keep warm and at rest.

Ingestion : Obtain immediate medical attention. Never give anything by mouth to an unconscious person. If person is conscious, rinse mouth with water and then give plenty of water to drink. Do not induce vomiting unless instructed to do so by medical personnel.

Indication of Immediate Medical Attention and Special Treatment Needed : In case of accident or unwellness, seek medical advice immediately.

5. Fire Fighting Measures



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Extinguishing Media : Use water or carbon dioxide extinguishing agents.
Specific Hazards Arising from the Chemical : At high temperatures and in case of fire, carbon oxides and nitrogen oxides.
Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Personal Precautions : Ensure adequate ventilation. Keep unprotected and unnecessary personnel out of spill area.
Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.
Emergency Procedures : Do not allow to enter into soil or subsoil. Do not allow to enter into surface water or drains.
Methods and Materials for Containment and Cleanup : Cover spilled product with inert absorbent material. Collect using a shovel and broom. Place in suitable containers for reuse or disposal.

7. Handling and Storage

Precautions for Safe Handling : Avoid contact with skin and eyes, inhalation of vapors and mists. Contaminated clothing should be changed before entering eating areas. Do not eat or drink while handling.
Conditions for Safe Storage : Store in adequately ventilated area. Keep away from food, drink and feed. Avoid contact with acids, bases, oxidizing and reducing agents.

8. Exposure Controls / Personal Protection

TLV/PEL : No occupational exposure limit available.
Appropriate Engineering Controls : General and/or local exhaust should be sufficient.
Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

Odor/Appearance : Dark green liquid; odor not described.
Flash Point, °F : No data available
Boiling Point, °F : No data available
Melting Point(Freezing point), °C : No data available
Vapor Pressure, mm Hg @ 20 °C : No data available
Vapor Density : No data available
Solubility in Water : Soluble
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.2 (10.0 lbs/gal)
Evaporation Rate(Butyl Acetate = 1) : No data available
Octanol/Water Partition Coefficient : No data available
pH : 6.0 to 7.0
Flammable Limits (approximate volume % in air) : No data available
Auto-ignition Temperature : Not applicable
Decomposition temperature : No data available



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10. Stability and Reactivity

Reactivity : Not reactive
Chemical Stability : Stable
Hazardous Decomposition : At high temperatures and in case of fire, carbon oxides and nitrogen oxides.
Products
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid high temperatures.
Incompatible Materials : Acids, bases, oxidizing and reducing agents.

11. Toxicological Information

Acute Toxicity (Oral LD50) : No LD50 available. Not classified as hazardous under 29 CFR 1910.1200 (2012).
Acute Toxicity (Dermal LD50) : No LD50 available. Not classified as hazardous under 29 CFR 1910.1200 (2012).
Acute Toxicity Inhalation LC50 : No LC50 available. Not classified as hazardous under 29 CFR 1910.1200 (2012).
Likely Routes of Exposure : Skin, eyes
Skin Irritation : Not classified as hazardous under 29 CFR 1910.1200 (2012).
Eye Irritation : Not classified as hazardous under 29 CFR 1910.1200 (2012).
Skin Sensitization : No information found
Carcinogenic : No information found
Chronic Effects : No information found
Other Hazards : CA PROPOSITION 65 WARNING: No listed ingredient appears on the CA PROPOSITION 65 WARNINGS LISTING.

12. Ecological Information

Ecotoxicity : No information found
Persistence and Degradability : No information found
Bioaccumulative Potential : No information found
Mobility in Soil : No information found
Other Adverse Effects : No information found

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 : No information found
Transport in Bulk : No information found
Special Precautions for Transportation : No information found



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Freight Classification : Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)

15. Regulatory Information

**National Fire Protection
Association Rating**

Health: 0 Fire: 0 Reactivity: 0
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

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

Immediate(Acute) Health: N
Delayed (Chronic) Health: N
Sudden Release of N
Pressure:
Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 31-May-2023