



Safety Data Sheet

Report Date 02-May-15

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1. Identification

Product Name : Asset STARTER for Corn
Synonyms : None
Product Use : Liquid fertilizer compatible formulation
Manufacturer/Supplier : Helena Chemical Company
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification

Signal Word : Warning (no symbol)
Skin Irritation : Causes mild skin irritation.
Eye Irritation : Causes eye irritation.
Acute Toxicity Oral : No LD50 available. May be harmful if swallowed.
Acute Toxicity Dermal : No LD50 available. May be harmful in contact with skin.

Hazard Categories : Oral/Dermal/Inhalation Toxicity - 5/5/5; Eye Irritation - 2B; Skin Irritation - 3

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Causes eye irritation
Causes mild skin irritation
May be harmful if inhaled

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
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4. First Aid Measures

Eye : Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

Skin : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation : Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Ingestion : Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth if unconscious.

Indication of Immediate Medical Attention and Special Treatment Needed : Treat symptomatically.

5. Fire Fighting Measures

Extinguishing Media : Non-combustible. Use extinguishing media suitable for underlying cause of fire.

Specific Hazards Arising from the Chemical : May produce ammonia gas and oxides of carbon under fire conditions.

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing.



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6. Accidental Release Measures

- Personal Precautions** : Keep unprotected or unnecessary personnel out of spill area.
- Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use NIOSH-approved air-purifying respirator under fire conditions or if vapors exceed TLV. Emergency shower and eyewash should be available in work area.
- Emergency Procedures** : Dike spill to prevent spreading to soil, waterways or drains. If uncontaminated, collect and reuse.
- Methods and Materials for Containment and Cleanup** : If contaminated, cover spill with inert absorbent. Collect and place in suitable containers for proper disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Keep out of reach of children. Do not contaminate water supplies, lakes, streams or ponds. Keep container tightly closed. Do not allow water to be introduced into container contents.
- Conditions for Safe Storage** : Store in original container only. Do not store this product near heat or open flame. This product will freeze at temperatures less than 30 Degrees F. Thawing occurs readily at temperatures greater than 32 Degrees F.

8. Exposure Controls / Personal Protection

- TLV/PEL** : No information found for mixture.
- Appropriate Engineering Controls** : Local exhaust sufficient.
- Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use NIOSH-approved air-purifying respirator under fire conditions or if vapors exceed TLV. Emergency shower and eyewash should be available in work area.

9. Physical and Chemical Properties

- Odor/Appearance** : Clear, dark brown to black liquid; ammonia odor.
- Flash Point, °F** : Non-combustible
- Boiling Point, °F** : >100 Degrees C.
- Melting Point(Freezing point), °C** : <30 Degrees F.
- Vapor Pressure, mm Hg @ 20 °C** : Not established
- Vapor Density** : Not established
- Solubility in Water** : 99%
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.205-1.225
- Evaporation Rate(Butyl Acetate = 1)** : Not established
- Octanol/Water Partition Coefficient** : No information found
- pH** : 8.0 to 10.0
- Flammable Limits (approximate volume % in air)** : Not applicable
- Auto-ignition Temperature** : Not applicable
- Decomposition temperature** : No information found



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10. Stability and Reactivity

- Reactivity** : No information found
- Chemical Stability** : Stable
- Hazardous Decomposition** : May produce ammonia gas and oxides of carbon under fire conditions.
- Products**
- Hazardous Polymerization** : Will not occur
- Conditions to Avoid** : Avoid acidic materials. Product may react vigorously.
- Incompatible Materials** : Acids

11. Toxicological Information

- Acute Toxicity (Oral LD50)** : No data available. May cause vomiting/abdominal cramps. May be harmful if swallowed.
- Acute Toxicity (Dermal LD50)** : No data available. May be harmful in contact with skin.
- Acute Toxicity Inhalation LC50** : No data available. Inhalation may cause irritation to the nose/throat. May be harmful if inhaled.
- Likely Routes of Exposure** : Skin, eyes, ingestion, inhalation
- Skin Irritation** : Causes mild skin irritation.
- Eye Irritation** : Causes eye irritation.
- Skin Sensitization** : No information found
- Carcinogenic** : None currently known
- Chronic Effects** : None currently known.
- Other Hazards** : None currently known.

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

15. Regulatory Information



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National Fire Protection Association Rating :

Health: 1 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: Y
Delayed (Chronic) Health: N
Sudden Release of Pressure: N
Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 02-May-2015