



Safety Data Sheet

Report Date 16-May-15

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1. Identification

Product Name : First Up ST Soybean Inoculant
Synonyms : None
Product Use : Soybean Inoculant
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 : Not classified
Eye Irritation : Eye contact may cause irritation
Acute Toxicity Oral : Not classified
Acute Toxicity Dermal : Not classified

Hazard Categories : Eye Irritation - 2B; not classified hazardous for Oral/Dermal/Inhalation Toxicity or Skin Irritation

Hazard Statement : Causes eye irritation

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Liquid medium of Bradyrhizobium japonicum bacterium with Lipo-chitooligosaccharide (LCO). ACTIVE: 2x10 ⁻⁷ Lipo-chitooligosaccharides 5 billion (5x10 ⁹) Bradyrhizobium japonicum viable cells per gram 0.015% Isoflavonoids	Proprietary	100.00

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. Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth if unconscious.

Indication of Immediate Medical Attention and Special Treatment Needed : In the event of an adverse response, treatment should be directed toward control of the symptoms.

5. Fire Fighting Measures

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



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Specific Hazards Arising from the Chemical : None known.
Special Fire Fight Proc : Wear positive-pressure self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Personal Precautions : 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 : Contain spilled product with any available absorbent medium to prevent spreading.
Methods and Materials for Containment and Cleanup : Collect used absorbent and store in a suitable container until proper disposal can be arranged.

7. Handling and Storage

Precautions for Safe Handling : Keep locked up and out of reach of children. Do not contaminate water, food or feed by storage, handling or disposal. Keep container tightly closed. Do not allow water to be introduced into the contents of the container.
Conditions for Safe Storage : Store in original container only. Do not store near heat or open flame. Do not store with oxidizing agents or ammonium nitrate.

8. Exposure Controls / Personal Protection

TLV/PEL : No TLV or PEL for this mixture.
Appropriate Engineering Controls : General (mechanical) room ventilation 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 : Light green liquid with slight odor.
Flash Point, °F : Non-combustible
Boiling Point, °F : Not available
Melting Point(Freezing point), °C : Not available
Vapor Pressure, mm Hg @ 20 °C : Not available
Vapor Density : Not available
Solubility in Water : Not applicable
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : Not available
Evaporation Rate(Butyl Acetate = 1) : Not available
Octanol/Water Partition Coefficient : No information found
pH : No information found
Flammable Limits (approximate volume % in air) : Not available
Auto-ignition Temperature : Not available
Decomposition temperature : No information found



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10. Stability and Reactivity

- Reactivity** : No information found
- Chemical Stability** : Stable
- Hazardous Decomposition** : None currently known.
- Products**
- Hazardous Polymerization** : Will not occur
- Conditions to Avoid** : None currently known
- Incompatible Materials** : Acids, bases, oxidizers, reducers, disinfectants, fungicides and/or biocides may inactivate the bacteria in this product.

11. Toxicological Information

- Acute Toxicity (Oral LD50)** : No LD50 available. Small amounts swallowed incidental to use are not likely to cause injury.
- Acute Toxicity (Dermal LD50)** : No LD50 available. Do not expose open cuts or wounds to this product.
- Acute Toxicity Inhalation LC50** : No LC50 available. Prolonged or repeated exposure may cause injury to the respiratory tract.
- Likely Routes of Exposure** : Eyes
 - Skin Irritation** : Not a likely hazard by skin contact.
 - Eye Irritation** : Contact may cause eye irritation.
 - Skin Sensitization** : Not listed as a skin sensitizer.
 - Carcinogenic** : Not listed by IARC, NTP or OSHA.
 - Chronic Effects** : Not a likely hazard.
 - 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** : Bacteria, Seed or Soil Inoculant (NMFC Item 20380, Class 60)



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

16. Other Information

Data of Preparation/Revision : 16-May-2015