



Safety Data Sheet

Report Date 12-Jun-15

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1. Identification

Product Name : MYCO-SOL SOIL DRENCH INOCULUM (8 SPECIES)
Synonyms : None
Product Use : Inoculum
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 significant concern
Acute Toxicity Dermal : No significant concern

Hazard Categories : Eye Irritation - 2B; Skin Irritation - 3

Hazard Statement : Causes eye irritation
Causes mild skin irritation

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Active Ingredients: Mycorrhizal Fungi	Nonhazardous	30.0
Glomus intraradices - min. 17 propagules/cm ³		
Glomus mosseae - min. 17 propagules/cm ³		
Glomus aggregatum - min. 17 propagules/cm ³		
Pisolithus tinctorius - min. 3.2 million propagules/cm ³		
Rhizopogon villosulus - min. 80,000 propagules/cm ³		
Rhizopogon luteolus - min. 80,000 propagules/cm ³		
Rhizopogon amylopogon - min. 80,000 propagules/cm ³		
Rhizopogon fulvicleba - min. 80,000 propagules/cm ³		
Inactive Ingredients:		
Kelp Extract (Ascopyllum nodosum) (microbe food)	Nonhazardous	35.0
Humic Acids (derived from Leonardite)	Proprietary	35.0

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.



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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 : Use water or carbon dioxide. Material will not burn but may char or smolder.

Specific Hazards Arising from the Chemical : May emit corrosive fumes when charred by intense heating.

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

6. Accidental Release Measures

Personal Precautions : Keep unprotected and unnecessary personnel out of spill area.

Protective Equipment : Wear protective eyewear (goggles or face shield), chemical-resistant gloves, long-sleeved shirt and long pants, shoes plus socks. Use a dust mask when handling product.

Emergency Procedures : No special emergency procedures. Prevent spilled product from spreading.

Methods and Materials for Containment and Cleanup : If spilled, sweep or vacuum up spilled product. Dispose as soil. If uncontaminated, reuse as intended.

7. Handling and Storage

Precautions for Safe Handling : Keep out of reach of children. Use within 2 years of purchase. Use solution within 72 hours of mixing with water. Use a dust mask when handling product.

Conditions for Safe Storage : Store under cool, dry conditions. Do not expose inoculum to direct sunlight for extended periods of time.

8. Exposure Controls / Personal Protection

TLV/PEL : No information found

Appropriate Engineering Controls : Local exhaust is sufficient.

Personal Protective Equipment : Wear protective eyewear (goggles or face shield), chemical-resistant gloves, long-sleeved shirt and long pants, shoes plus socks. Use a dust mask when handling product.

9. Physical and Chemical Properties

Odor/Appearance : Dark brown, coarse granular, slight ammonia odor.

Flash Point, °F : Not applicable

Boiling Point, °F : Not applicable

Melting Point(Freezing point), °C : Not applicable

Vapor Pressure, mm Hg @ 20 °C : Not applicable

Vapor Density : Not applicable

Solubility in Water : Insoluble suspension

Molecular Formula : Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 0.8

Evaporation Rate(Butyl Acetate = 1) : Not applicable



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Octanol/Water Partition Coefficient : No information found
pH : Not applicable
Flammable Limits (approximate volume % in air) : Not applicable
Auto-ignition Temperature : Not applicable
Decomposition temperature : Not applicable

10. Stability and Reactivity

Reactivity : Not reactive
Chemical Stability : Stable
Hazardous Decomposition Products : Ammonia may form if product is strongly heated or oxidized.
Hazardous Polymerization : Will not occur
Conditions to Avoid : None currently known.
Incompatible Materials : Contact with strong alkalis will release ammonia fumes. Avoid contact with strong oxidizers.

11. Toxicological Information

Acute Toxicity (Oral LD50) : No LD50 available. No significant concern. Not classified as hazardous due to oral toxicity.
Acute Toxicity (Dermal LD50) : No LD50 available. No significant concern. Not classified as hazardous due to dermal toxicity.
Acute Toxicity Inhalation LC50 : No LC50 available. No significant concern. Not classified as hazardous due to inhalation toxicity.
Likely Routes of Exposure : Skin, eyes
Skin Irritation : Causes mild skin irritation.
Eye Irritation : Causes eye irritation.
Skin Sensitization : Not listed as a skin sensitizer.
Carcinogenic : Not listed by NTP, IARC, or OSHA.
Chronic Effects : No chronic effects known at this time.
Other Hazards : Product components are soil-like in nature and are non-toxic, non-allergenic, and non-pathogenic to mammals.

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



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UN Proper Shipping Name : Not regulated by D.O.T.
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)

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 : 12-June-2015