



# 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 <sup>3</sup>		
Glomus mosseae - min. 17 propagules/cm <sup>3</sup>		
Glomus aggregatum - min. 17 propagules/cm <sup>3</sup>		
Pisolithus tinctorius - min. 3.2 million propagules/cm <sup>3</sup>		
Rhizopogon villosulus - min. 80,000 propagules/cm <sup>3</sup>		
Rhizopogon luteolus - min. 80,000 propagules/cm <sup>3</sup>		
Rhizopogon amylopogon - min. 80,000 propagules/cm <sup>3</sup>		
Rhizopogon fulvicleba - min. 80,000 propagules/cm <sup>3</sup>		
Inactive Ingredients:		
Kelp Extract (Ascophyllum 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