



Safety Data Sheet

Report Date 28-Jun-15

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1. Identification

Product Name : MYCO-VAM BARE ROOT
Synonyms : None
Product Use : Mycorrhizal 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 : No significant concern
Eye Irritation : Mildly irritating to the eyes
Acute Toxicity Oral : No significant concern
Acute Toxicity Dermal : No significant concern

Hazard Categories : Eye Irritation - 2B

Hazard Statement : Causes eye irritation

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Proprietary blend of hydrated silica, humic acid, seaweed extracts, acrylamide copolymer gel and mycorrhizae.	Proprietary	100.00
Active Ingredients, Contains three species of vesicular arbuscular mycorrhizal fungi:		
Glomus intraradices: minimum 60 propagules/cm ³		
Glomus aggregatum: minimum 10 propagules/cm ³		
Glomus mosseae: minimum 10 propagules/cm ³		
And five species of ectomycorrhizal fungi:		
Pisolithius tinctorius: minimum 1,000,000 propagules/cm ³		
Rhizopogon villosulus: minimum 62,500 propagules/cm ³		
Rhizopogon luteolus: minimum 62,500 propagules/cm ³		
Rhizopogon amylopogon: minimum 62,500 propagules/cm ³		
Rhizopogon fulvigleba: minimum 62,500 propagules/cm ³		
6% Kelp Extract (Ascophyllum nodosum)		
36% Humic acids (derived from Leonardite)		
23% Co-polymers of Acrylamide		

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.



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- 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** : Material is essentially non-flammable. Use extinguishing media appropriate to surrounding materials.
- Specific Hazards Arising from the Chemical** : None currently known.
- 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** : 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** : Prevent spilled product from entering waterways, lakes, streams, or ponds.
- Methods and Materials for Containment and Cleanup** : If spilled, sweep up material and place into a chemical storage container for reuse, recycling or disposal. May be applied as a soil amendment to fields, if uncontaminated.

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 established.
- Appropriate Engineering Controls** : Local exhaust normally 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** : 15-30 mesh granules, light brown color, no odor.
- Flash Point, °F** : Not applicable
- Boiling Point, °F** : Not applicable



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Melting Point(Freezing point), °C : Not applicable
Vapor Pressure, mm Hg @ 20 °C : Not applicable
Vapor Density : Not applicable
Solubility in Water : Not applicable
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.2 - 1.5
Evaporation Rate(Butyl Acetate = 1) : Not applicable
Octanol/Water Partition Coefficient : Not applicable
pH : Not applicable
Flammable Limits (approximate volume % in air) : Not flammable
Auto-ignition Temperature : Not applicable.
Decomposition temperature : Not applicable

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition Products : No unusual fire or explosion hazards are known for this material.
Hazardous Polymerization : Will not occur
Conditions to Avoid : None currently known
Incompatible Materials : None currently known.

11. Toxicological Information

Acute Toxicity (Oral LD50) : No significant concern
Acute Toxicity (Dermal LD50) : No significant concern
Acute Toxicity Inhalation LC50 : No significant concern
Likely Routes of Exposure : Eyes
Skin Irritation : No significant concern
Eye Irritation : Causes eye irritation
Skin Sensitization : Not listed as a sensitizer
Carcinogenic : Not listed by NTP, IARC, or OSHA.
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.



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14. Transport Information

UN Proper Shipping Name : Not regulated by DOT.
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 : 28-June-2015