


## SAFETY DATA SHEET (SDS)

### 1. PRODUCT & COMPANY IDENTIFICATION

<b>Product Name</b>	MycoApply® Endo/Ecto - 40LB BAG
<b>Product Code</b>	AS10501.04.040
<b>Product Use</b>	Inoculant
<b>Supplier</b>	Mycorrhizal Applications, LLC
<b>Address</b>	710 NW E Street Grants Pass, OR 97526 USA
<b>USA Phone Number</b>	866-476-7800 (Monday-Friday, 7:00am – 4:00pm PST)
<b>24 Hour Medical Emergency Phone Number</b>	877-315-9819 (PROPHARMA)

### 2. HAZARDS IDENTIFICATION

<b>OSHA Regulatory Status:</b> Hazard Communication Standard (29 CFR 1910.1200)	
<b>2.1 Classification of the Substance or Mixture</b>	
<b>GHS Classification:</b> Category 1.A <b>Signal Word:</b> Danger <b>Symbol/Pictogram:</b>  Health Hazard <b>Hazard Statements:</b> May cause cancer by inhalation Causes damage to lungs through prolonged or repeated exposure by inhalation	
<b>2.2 GHS Label Elements</b>	
<b>Prevention Statements</b> Do not handle until all safety precautions have been read and understood. Do not breath dust. Wash thoroughly after handling. Wear protective gloves and clothing. Do not eat, drink or smoke when using this product. <b>Response Statements:</b> If exposed or concerned: Get medical advice/attention. <b>Storage:</b> Store in a dry area. <b>Disposal:</b> Dispose of contents/container in accordance with local/regional/national/international regulations.	
<b>2.3 Other Hazards:</b> None known.	

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Chemical/Substance Name</b>	<b>Classification</b>	<b>CAS No.</b>	<b>Concentration (w/w %)</b>
Silica Hydrated (Amorphous Opaline Silica)	Not classified	7631-86-9	90-99 %
Quartz (Respirable <0.1%)	Not classified	14808-60-7	0-5%
Proprietary-Other Ingredients	Not classified	NA	1-10%

\*Exact percentages vary based on batch to batch variability. Ingredients not identified are proprietary or non-hazardous

### 4. FIRST AID MEASURES

<b>4.1 Description of First Aid Measures</b>	
<b>Eye Contact</b>	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
<b>Skin Contact</b>	Wash with soap and water. Exposure to skin may cause mild irritation and dry skin.
<b>Ingestion</b>	If used material is ingested, get medical attention. If large amount of unused material is swallowed, get immediate medical attention.
<b>Inhalation</b>	Supply fresh air. If irritation or other symptoms occurs, get medical attention.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	
<b>Acute:</b> Not known – treat with caution. No information on acute adverse effects. <b>Delayed:</b> Not known – treat with caution. No information on delayed adverse effects.	
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	
Treat symptomatically and supportively.	

## 5. FIRE FIGHTING MEASURES

<b>5.1 Extinguishing Media and Suitable Extinguishing Media</b>
<b>Suitable Extinguishing Media:</b> Use media that is appropriate for surrounding fire. <b>Unsuitable Extinguishing Media:</b> None known.
<b>5.2 Special Hazards Arising from the Substance or Mixture</b>
<b>Thermal decomposition products:</b> None known.
<b>5.3 Special Protective Equipment/Procedures for Firefighters</b>
<b>Protective Equipment and precautions for firefighters:</b> Breathing apparatus and protective clothing for fires involving chemicals or in confined spaces. <b>Fire &amp; Explosive hazard:</b> None known.

## 6. ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal Precautions, Protective Equipment and Emergency Procedures</b>
None known.
<b>6.2 Environmental Precautions</b>
Report as required by local and federal regulations.
<b>6.3 Methods and Material for Containment and Cleaning Up</b>
None known.
<b>6.4 Containment and Cleaning Up</b>
Sweep up and collect for proper disposal.

## 7. HANDLING & STORAGE

<b>7.1 Precautions for Safe Handling</b>
Avoid breathing dust. Ensure good ventilation/exhaustion at the workplace. Follow good housekeeping practices to keep surfaces, including areas overhead such as piping, drop ceilings, ductwork, etc. free from settled dust.
<b>7.2 Conditions for Safe Storage, Including any Incompatibilities</b>
Store in a dry area. Keep container tightly sealed.
<b>7.3 Incompatibilities</b>
None known.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>8.1 Control Parameters:</b> Component Exposure Levels: Information collected from supplier SDS's.			
Component	Regulation	Type of Listing	Value
Silica Hydrated (Amorphous Opaline Silica)	TWA OSHA PEL	% SiO <sub>2</sub>	80 mg/m <sup>3</sup>
Quartz (crystalline silica) (respirable <1%)	TWA OSHA	% SiO <sub>2</sub> +2 (total dust)	30 mg/m <sup>3</sup>
	TWA OSHA PEL	% SiO <sub>2</sub> +2 (respirable dust)	10 mg/m <sup>3</sup>
	TWA ACGIH TLV	(respirable dust)	0.025 mg/m <sup>3</sup>
<b>8.2 Exposure Controls</b>			
<b>Engineering Controls</b>	General ventilation is adequate for normal use. For operations where the exposure limit may be exceeded, local exhaust ventilation is recommended.		
<b>Respiratory Protection</b>	For operations where the exposure limit may be exceeded, a NIOSH/MSHA approved high efficiency particulate respirator is recommended.		
<b>8.3 Personal Protective Equipment</b>			
<b>Skin Protection</b>	None required for normal use.		
<b>Eye Protection</b>	Safety glasses or goggles recommended.		
<b>Respiratory Protection</b>	None required for normal use. For operations where the dust concentration may exceed the OSHA or other regulatory exposure limits, or if the dust is visibly excessive, a NIOSH-approved particulate respirator should be used. Follow OSHA regulations (or other national regulations, as applicable) in the proper selection and use of respiratory protection.		

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>9.1 Information on basic Physical and Chemical Properties</b>	
Property	Value
State:	Granular Solid
Appearance:	Tan to Dark Brown
Odor:	No odor
Odor Threshold:	Not determined
pH:	Not determined
Melting Point /Freezing Point:	Not applicable

Initial boiling point & range:	Not determined
Flashpoint:	Not determined
Evaporation Rate (Butyl acetate=1)	Not applicable
Flammability (solid, gas):	Not applicable
Flammable Limits in Air % by Volume:	Not determined
LEL (Lower):	Not determined
UEL (Upper):	Not determined
Vapor pressure	Not applicable
Vapor density (air=1)	Not applicable
Relative Density (water=1)	Not determined
Solubility:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
Autoignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not determined
Flammability Class:	Not determined
Oxidation Properties:	Not determined

## 10. STABILITY & REACTIVITY

<b>10.1 Reactivity</b>	No further relevant information available.
<b>10.2 Chemical Stability</b>	No decomposition if used according to specifications.
<b>10.3 Possibility of Hazardous Reactions</b>	None known.
<b>10.4 Conditions to Avoid</b>	No further relevant information available
<b>10.5 Incompatible Materials</b>	Turpentine, hydrofluoric acid, vegetable oil, fish oil, unsaturated organic compound.
<b>10.6 Hazardous Decomposition Products</b>	No dangerous decomposition products known.

## 11. TOXICOLOGICAL INFORMATION

<b>11.1 Information on Toxicological Effects:</b>	
<b>Likely Routes of Exposure</b>	
<b>Ingestion</b>	No adverse effects expected with unused material.
<b>Inhalation</b>	Inhalation of excessive concentrations of dust may cause irritation to the respiratory tract.
<b>Eye Contact</b>	Contact may cause mechanical irritation and possible injury.
<b>Skin Contact</b>	No adverse effects expected.
<b>11.2 Acute Toxicity</b>	No toxicity data available
<b>11.3 Corrosivity</b>	This is not a corrosive product.
<b>11.4 Carcinogen Status</b>	The International Agency for Research on Cancer (IARC), in Monograph 100C has concluded that crystalline silica inhaled in the form of quartz is carcinogenic to humans (Group1). Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs. The National Toxicology Program (NTP) classifies crystalline silica as a known carcinogen. Applications and exposure data indicate that exposure to respirable quartz in this product with normal use is well below the OSHA Permissible Exposure Limit (PEL) and ACGIH Threshold Limit Value (TLV). The manufacturer is not aware of any scientific or medical data available indicating that exposure to respirable crystalline silica from this product under conditions of normal use will cause silicosis or cancer. Adverse effects would not be expected from normal use of this product.
<b>11.5 Repeat Dose Toxicity</b>	No toxicity data available. Inhalation of excessive concentrations of any dust, including this material, may lead to lung injury. This product contains <0.1% respirable crystalline silica. Excessive inhalation of respirable crystalline silica may cause silicosis, a progressive, disabling and fatal disease of the lung. Symptoms may include cough, shortness of breath, wheezing and reduced pulmonary function.

## 12. ECOLOGICAL INFORMATION

<b>12.1 Ecotoxicity</b>	No data available for the product. No adverse effects on the environment are expected.
<b>12.2 Persistence and Degradability</b>	Amorphous opaline silica and silica are non-degradable.
<b>12.3 Bioaccumulative Potential</b>	No further relevant information available.
<b>12.4 Mobility in Soil</b>	No further relevant data available.
<b>12.5 Results of PBT and vPvB Assessment</b>	PBT: Not applicable. vPvB: Not applicable.
<b>12.6 Other Adverse Effects</b>	None known.

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste Treatment Methods

Dispose in accordance with local, state and federal environmental regulations. Unused material is suitable for disposal in sanitary landfill. Used material may be subject to regulation, depending on the nature of the material absorbed. Check with appropriate regulatory authority for used material.

### 14. TRANSPORT INFORMATION

#### 14.1 Transport information

	DOT	IMDG	IATA	TDG
UN number	Not applicable	Not applicable	Not applicable	Not applicable
Proper shipping name	Not regulated under DOT	Not regulated	Not regulated	Not regulated
Hazard class(es)	Not applicable	Not applicable	Not applicable	Not applicable
Packing group	Not applicable	Not applicable	Not applicable	Not applicable
Special precautions	Consult IMO regulations before transporting ocean bulk. Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code.			

### 15. REGULATORY INFORMATION

#### 15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:

US TSCA	Components of this product are listed on the EPA TSCA Inventory or exempt from notification requirements
CERCLA STATUS	None
SARA STATUS	Acute: No Chronic: No CDT: No
SARA 313	None
EINECS	Components of this product are listed on the EINECS Inventory or exempt from notification requirements.
EEC R&S Phrases	Xn Harmful, R48/20 Harmful: Danger of serious damage to health by prolonged exposure by inhalation; S22 Do not breath dust; S38 In case of insufficient ventilation, wear suitable respirator equipment.
State Right-To-Know	California Proposition 65: This product contains respirable crystalline silica which is known to the State of California to cause cancer.  Consult applicable national, state provincial or local laws to determine regulations, laws or ordinances which may be applicable.
OSHA HAZARD COMMUNICATION STANDARD	Not defined by the OSHA Hazard Communication Standard, 29 CFR
JAPAN MITI	No data available
AICS	No data available
15.2 Pesticide Labeling: Not an EPA registered pesticide.	

### 16. OTHER INFORMATION

HMIS Ratings:	Health – 0*	Flammability – 0	Reactivity – 0
0 = Minimal Hazard, 1 = Slight Hazard, 2 = Moderate Hazard, 3 = Serious Hazard, 4 = Severe Hazard			
NFPA Hazard Ratings:	Health – 0*	Flammability – 0	Reactivity – 0
0 = Minimal Hazard, 1 = Slight Hazard, 2 = Moderate Hazard, 3 = Serious Hazard, 4 = Severe Hazard			

#### 16.1 GHS Abbreviations and Phrases for Reference:

® = Registered Trademark  
 ™ = Registered Trademark  
 L = Listed  
 S = Short-term  
 N/A = Not Applicable  
 N/L = Not Listed  
 N/D = Not Determined  
 C = Ceiling

Disclaimer: The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, Mycorrhizal Applications and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, neither Mycorrhizal Applications nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. It is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Mycorrhizal Applications to confirm that you have the most current product label and SDS.

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**Safety Data Sheet (SDS)**  
**MycoApply® Endo/Ecto - 40LB BAG**  
**SDS# MA-0048**  
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This Safety Data Sheet (SDS) may provide more information than the product label but does not replace or modify the product labeling (attached to and accompanying the product container). The product SDS and the product label both provide consistent and important health, safety, and environmental information as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). This requirement covers employers, employees, emergency responders, users and others handling the product. All necessary hazard classification and appropriate precautionary, use, storage, and disposal information is set forth on the labeling and the SDS.

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**Revision notes:** Update Format

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