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**MycoApply® Endo**

## SAFETY DATA SHEET

### 1. PRODUCT & COMPANY IDENTIFICATION

**Product Name:** MycoApply® Endo  
**Product Code:** FMAEN  
**Product Use:** Inoculant  
**Supplier:** Mycorrhizal Applications, LLC  
**Address:** 710 NW E Street, Grants Pass, OR 97526  
**Phone Number:** 866-476-7800 (Monday-Friday, 7:00 a.m. – 4:00 p.m.)  
**Medical Emergency Phone Number:** 877-315-9819 (PROPHARMA)

### 2. HAZARDS IDENTIFICATION

**Classification:**  
Health: Category 1.A  
Environmental: Not Hazardous  
Physical: Not Hazardous

**Signal Word:** Danger

**Hazard Symbols:**



Health Hazard

**Hazard Statements:**

H350 May cause cancer by inhalation  
H372 Causes damage to lungs through prolonged or repeated exposure by inhalation.

**Prevention Statements:**

P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breath dust.  
P264 Wash thoroughly after handling  
P280 Wear protective gloves and clothing  
P270 Do not eat, drink or smoke when using this product

**Response Statements:**

P308 + P313 If exposed or concerned: Get medical advice/attention.

**Storage:**

Store in a dry area.

**Disposal:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS #</u>	<u>Concentration (w/w %)</u>
Silica Hydrated (Amorphous Opaline Silica)	7631-86-9	90-99 %
Quartz (Respirable <0.1%)	14808-60-7	0-5%
Proprietary-Other Ingredients	NA	1-10%

### 4. FIRST AID MEASURES

**If Inhaled** Supply fresh air. If irritation or other symptoms occurs, get medical attention .  
**If on Skin:** Wash with soap and water. Exposure to skin may cause mild irritation and dry skin.  
**If in Eyes:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
**If Swallowed:** If used material is ingested, get medical attention. If large amount of unused material is swallowed, get immediate medical attention



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## 5. FIRE FIGHTING MEASURES

<b>Extinguishing Media:</b>	Use media that is appropriate for surrounding fire.
<b>Special Exposure Hazards:</b>	None known
<b>Special Protective Equipment / Procedures for Firefighters:</b>	Breathing apparatus and protective clothing for fires involving chemicals or in confined spaces.

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## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	None known
<b>Environmental Precautions:</b>	Report as required by local and federal regulations.
<b>Containment / Clean-Up Methods:</b>	Sweep up and collect for proper disposal

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## 7. HANDLING & STORAGE

<b>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>Storage:</b>	Store in a dry area. Keep container tightly sealed.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Occupational Exposure Limits:</b>	<b>Silica Hydrated (Amorphouse Opaline Silica)</b> – 80 mg/m <sup>3</sup> / % SiO <sub>2</sub> TWA OSHA PEL <b>Quartz (crystalline silica) (respirable &lt;1%)</b> -30 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2 (total dust) TWA OSHA -10 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2 (respirable dust) TWA OSHA PEL -0.025 mg/m <sup>3</sup> (respirable dust) TWA ACGIH TLV
<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>Personal Protective Equipment :</b>	<b>Clothing:</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.

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## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance:</b>	Tan to Dark Brown Granular Solid	<b>Upper/Lower flammability limits:</b>	Not available
<b>Odor:</b>	No odor	<b>Vapor pressure:</b>	Not available
<b>Odor threshold:</b>	Not available	<b>Vapor density: (air =1)</b>	Not applicable
<b>pH:</b>	Not applicable	<b>Specific Gravity: (H<sub>2</sub>O = 1)</b>	Not available
<b>Melting/Freezing point:</b>	Not available	<b>Solubility:</b>	Insoluble
<b>Boiling point:</b>	Not available	<b>Partition coefficient (n-octanol-water):</b>	Not determined
<b>Flash point:</b>	Not applicable	<b>Auto-ignition temperature:</b>	Not applicable
<b>Evaporation rate:</b>	Not applicable	<b>Decomposition temperature:</b>	Not applicable
<b>Flammability (solid, gas):</b>	Not flammable	<b>Viscosity:</b>	Not applicable



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## 10. STABILITY & REACTIVITY

<b>Reactivity hazards:</b>	No further relevant information available
<b>Chemical stability:</b>	No decomposition if used according to specifications
<b>Conditions to avoid:</b>	No further relevant information available
<b>Incompatible materials:</b>	Turpentine, hydrofluoric acid, vegetable oil, fish oil, unsaturated organic compound.
<b>Hazardous decomposition products:</b>	No dangerous decomposition products known

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## 11. TOXICOLOGICAL INFORMATION

<b>Information:</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:</b> Contact may cause mechanical irritation and possible injury. <b>Skin:</b> No adverse effects expected. <b>Sensitization:</b> No adverse effects expected. <b>Medical Conditions Aggravated By Exposure:</b> None currently known.
<b>Acute toxicity:</b>	No toxicity data available
<b>Corrosivity:</b>	This is not a corrosive product
<b>Eye</b>	Contact may cause mechanical irritation
<b>Respiratory/Skin sensitization:</b>	No sensitizing effects know
<b>Germ cell mutagenicity:</b>	No specific data is available. This product is not expected to present a germ cell mutagenicity hazard
<b>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>Reproductive toxicity:</b>	No specific data is available. Not expected to affect reproduction or development.
<b>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.



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## 12. ECOLOGICAL INFORMATION

<b>Toxicity:</b>	No data available for the product. No adverse effects on the environment are expected.
<b>Persistence/ degradability:</b>	Amorphous opaline silica and silica are non-degradable.
<b>Bioaccumulative potential:</b>	No further relevant information available
<b>Mobility in soil:</b>	No further relevant data available
<b>Other adverse effects:</b>	None currently known
<b>Results of PBT and vPvB assessment</b>	PBT: Not applicable vPvB: Not applicable

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## 13. DISPOSAL CONSIDERATIONS

<b>Disposal methods:</b>	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.
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## 14. TRANSPORT INFORMATION

	<u>DOT</u>	<u>IMDG</u>	<u>IATA</u>
<b>US DOT Shipping Description:</b>	Not regulated	Not applicable	Not applicable
<b>UN number:</b>	Not applicable	Not applicable	Not applicable
<b>Proper shipping name:</b>	Not regulated under DOT	Not regulated	Not regulated
<b>Hazard class(es):</b>	Not applicable	Not applicable	Not applicable
<b>Packing group:</b>	Not applicable	Not applicable	Not applicable
<b>Special precautions:</b>	None		

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## 15. REGULATORY INFORMATION

<b>CERCLA/SUPERFUND</b>	None
<b>SARA HAZARD</b>	Chronic Health
<b>CATEGORY (311/312)</b>	
<b>SARA 313:</b>	None
<b>TSCA:</b>	Components of this product are listed on the EPA TSCA Inventory or exempt from notification requirements
<b>California Proposition 65:</b>	This product contains respirable crystalline silica which is known to the State of California to cause cancer.
<b>EINECS</b>	Components of this product are listed on the EINECS Inventory or exempt from notification requirements
<b>EEC R&amp;S Phrases</b>	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
<b>JAPAN MITI:</b>	No data available
<b>AICS:</b>	No data available



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## 16. OTHER INFORMATION

**HMIS Ratings:** 0\* Flammability – 0 Reactivity – 0

0 = Minimal Hazard, 1 = Slight Hazard, 2 = Moderate Hazard, 3 = Serious Hazard, 4 = Severe Hazard

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.

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.

**SDS preparation date:** November 13, 2015 **Replaces MSDS dated:** October 14, 2015

**Changes since last revision:** Conversion to Hazcom 2012 classification and labeling based on updated data.