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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



5. FIRE FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING & STORAGE

Handling:	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.
Storage:	Store in a dry area. Keep container tightly sealed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:	Silica Hydrated (Amorphouse Opaline Silica) – 80 mg/m ³ / % SiO ₂ TWA OSHA PEL Quartz (crystalline silica) (respirable <1%) -30 mg/m ³ / %SiO ₂ +2 (total dust) TWA OSHA -10 mg/m ³ / %SiO ₂ +2 (respirable dust) TWA OSHA PEL -0.025 mg/m ³ (respirable dust) TWA ACGIH TLV
Engineering Controls:	General ventilation is adequate for normal use. For operations where the exposure limit may be exceeded, local exhaust ventilation is recommended.
Respiratory Protection	For operations where the exposure limit may be exceeded, a NIOSH/MSHA approved high efficiency particulate respirator is recommended..
Personal Protective Equipment :	Clothing: None required for normal use. Eye Protection: Safety glasses or goggles recommended. Respiratory Protection: 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

Appearance:	Tan to Dark Brown Granular Solid	Upper/Lower flammability limits:	Not available
Odor:	No odor	Vapor pressure:	Not available
Odor threshold:	Not available	Vapor density: (air =1)	Not applicable
pH:	Not applicable	Specific Gravity: (H₂O = 1)	Not available
Melting/Freezing point:	Not available	Solubility:	Insoluble
Boiling point:	Not available	Partition coefficient (n-octanol-water):	Not determined
Flash point:	Not applicable	Auto-ignition temperature:	Not applicable
Evaporation rate:	Not applicable	Decomposition temperature:	Not applicable
Flammability (solid, gas):	Not flammable	Viscosity:	Not applicable



10. STABILITY & REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Information:	Ingestion: No adverse effects expected with unused material Inhalation: Inhalation of excessive concentrations of dust may cause irritation to the respiratory tract. Eye: Contact may cause mechanical irritation and possible injury. Skin: No adverse effects expected. Sensitization: No adverse effects expected. Medical Conditions Aggravated By Exposure: None currently known.
Acute toxicity:	No toxicity data available
Corrosivity:	This is not a corrosive product
Eye	Contact may cause mechanical irritation
Respiratory/Skin sensitization:	No sensitizing effects know
Germ cell mutagenicity:	No specific data is available. This product is not expected to present a germ cell mutagenicity hazard
Carcinogen Status	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.
Reproductive toxicity:	No specific data is available. Not expected to affect reproduction or development.
Repeat Dose Toxicity	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

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

13. DISPOSAL CONSIDERATIONS

Disposal 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.
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14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

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



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.