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Safety Data Sheet (SDS)  
 MYCO4 Mycorrhizae  
 SDS# MA-001  
 Issued Date: 06/01/21

## SAFETY DATA SHEET (SDS)

### 1. PRODUCT & COMPANY IDENTIFICATION

<b>Product Name</b>	MYCO4 - Mycorrhizae
<b>Product Code</b>	AS10107.04.020
<b>Identified Use</b>	Inoculant
<b>Supplier</b>	Terra Firma Plant Technologies Ltd.
<b>Address</b>	106, 391 Tilley Road Kelowna, BC Canada V4V 2K5
<b>Telephone Number (Canada)</b>	(250) 863-5750 (Monday-Friday from 8:30am – 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> Single Exposure: Category 3 <b>Signal Word:</b> Warning <b>Symbol/Pictogram:</b> 	
<b>Hazard Statements:</b> May cause respiratory irritation.	
<b>2.2 GHS Label Elements</b>	
<b>Prevention Statements:</b> Avoid breathing dust. Use outdoors or in a well-ventilated area. <b>Response Statements:</b> IF INHALED: Remove victim to fresh air, keep at rest in a position comfortable for breathing. <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

<u>Chemical/Substance Name</u>	<u>Classification</u>	<u>CAS No.</u>	<u>Concentration (w/w %)</u>
Fuller's Earth (Attapulgite-type clay)	Not classified	8031-18-3	90-99 %*
Active/Trade Secret – Non-Hazardous	Not classified	None	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>	With eye open, rinse for several minutes under running water. If irritation persists, or for foreign body in the eye, seek medical attention.
<b>Skin Contact</b>	No first aid should be needed.
<b>Ingestion</b>	If symptoms persist, consult with doctor/physician.
<b>Inhalation</b>	Move to fresh air. If irritation or other symptoms occurs, seek 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>
Use media that is appropriate for surrounding fire.
<b>5.2 Special Hazards Arising from the Substance or Mixture</b>
None known.
<b>5.3 Special Protective Equipment/Procedures for Firefighters</b>
None known.

## 6. ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal Precautions, Protective Equipment and Emergency Procedures</b>	No special equipment is required for spill clean-up. For dusty conditions, an approved respirator may be needed. For dusty conditions, an approved respirator may be needed. Refer to Section 8 for additional information.
<b>6.2 Environmental Precautions</b>	Report releases as required by local and federal regulation.
<b>6.3 Methods and Material for 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.
<b>7.2 Conditions for Safe Storage, Including any Incompatibilities</b>	Store in a dry area. Avoid consistent temperature above 120 degrees Fahrenheit. Keep container tightly sealed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>8.1 Exposure Controls</b>	
<b>Chemical Name:</b>	15 mg/m3 (total dust) TWA OSHA PEL 5 mg/m3 (respirable dust) TWA OSHA PEL
<b>Fullers Earth (Attapulgite-type clay)</b>	
<b>Engineering Controls</b>	For operations where the exposure limit may be exceeded, local exhaust ventilation is recommended.
<b>8.2 Personal Protective Equipment</b>	
<b>Skin Protection</b>	None required for normal use.
<b>Eye Protection</b>	Safety glasses or goggles if needed to prevent eye contact.
<b>Respiratory Protection</b>	None required for normal use. For operations where the dust concentration may be excessive, a dust respirator may be used. Follow OSHA regulations in the selection and use of respiratory protection.

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>9.1 Information on basic Physical and Chemical Properties</b>	
<b>Property</b>	<b>Value</b>
State	Powder
Appearance	Gray to tan
Odor	Earthy
Odor Threshold	Not applicable
pH	Not applicable
Melting Point /Freezing Point	1710°C / Not applicable
Initial boiling point & range	4046°F (2230°C)
Flashpoint	Not applicable
Evaporation Rate (Butyl acetate=1)	Not applicable
Flammability (solid, gas)	Not applicable
Flammable Limits in Air % by Volume	LEL (Lower): Not applicable UEL (Upper): Not applicable
Vapor pressure	Not applicable
Vapor density (air=1)	Not applicable
Relative Density (water=1)	Not applicable
Solubility	Insoluble
Partition coefficient (n-octanol/water)	Not applicable
Autoignition temperature	Not applicable
Decomposition temperature	Not applicable
Viscosity	Not applicable
Flammability Class	Not applicable
Oxidation Properties	Not applicable

## 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>	No further relevant information available.
<b>10.4 Conditions to Avoid</b>	No further relevant information available.
<b>10.5 Incompatible Material</b>	No further relevant information available.
<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 dust may cause irritation to the eyes, nose, throat, and respiratory tract.
<b>Eye Contact</b>	Contact with excessive concentrations of dust may cause irritation.
<b>Skin Contact</b>	No known hazard.
<b>Chronic Effects</b>	Inhalation of excessive concentrations of any dust, including this material, may lead to lung irritation and/or injury.
<b>Carcinogenicity Listing</b>	None.
<b>Formulation Toxicology</b>	None currently known.

## 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>	No further relevant information available.
<b>12.3 Bioaccumulative Potential</b>	No further relevant information available.
<b>12.4 Mobility in Soil</b>	No further relevant information available.
<b>12.5 Results of PBT and vPvB Assessment</b>	PBT: NA vPvB: NA
<b>12.6 Other Adverse Effects</b>	None currently known.

## 13. DISPOSAL CONSIDERATIONS

<b>13.1 Disposal Methods</b>	
<b>Waste treatment methods:</b> Recommendation; Recycle or dispose with household trash.	
<b>Uncleansed packaging:</b> Recommendation; Disposal must be made according to official regulations.	

## 14. TRANSPORT INFORMATION

<b>14.1 Transport information</b>				
	<b>DOT</b>	<b>IMDG</b>	<b>IATA</b>	<b>TDG</b>
<b>UN number</b>	Not applicable.	Not applicable.	Not applicable.	Not applicable.
<b>Proper shipping name</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>Hazard class(es)</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>Packing group</b>	Not applicable.	Not applicable.	Not applicable.	Not applicable.
<b>Special precautions</b>	None.			

## 15. REGULATORY INFORMATION

<b>15.1 US Regulations: Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture</b>	
<b>US EPA Toxic Substances Control Act (TSCA)</b>	Components of this product are listed on the EPA TSCA Inventory or exempt from notification requirements.
<b>CERCLA STATUS</b>	This product is not subject to CERCLA release reporting. Many states have more stringent reporting requirements. Report releases as required by local and state regulations.
<b>California Proposition 65</b>	None.
<b>SARA STATUS</b>	Acute: No    Chronic: No    CDT: No
<b>SARA 313</b>	None.
<b>RCRA STATUS</b>	NA
<b>EINECS</b>	Components of this product are listed on the EINECS Inventory or exempt from notification requirements.
<b>State Right-To-Know</b>	Consult applicable national, state provincial or local laws to determine regulations, laws or ordinances which may be applicable.
<b>OSHA HAZARD COMMUNICATION STANDARD</b>	Not defined by the OSHA Hazard Communication Standard, 29 CFR.
<b>15.2 Pesticide Labeling:</b> Not an EPA registered pesticide.	



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**16. OTHER INFORMATION**

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

- 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, Terra Firma Plant Technologies Ltd 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 Terra Firma Plant Technologies Ltd 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 Terra Firma Plant Technologies Ltd. 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 Issued Date:**06/01/21

**SDS Dated:**

**Revision notes:**

**Revision #**