Safety Data Sheet (SDS) MycoApply® EndoFuse 8/500ml SDS# MA-0061 Issued Date: 12/10/20 Revision # v.3

# SAFETY DATA SHEET (SDS)

1. PRODUCT & COMPANY IDENTIFICATION		
Product Name	MycoApply® EndoFuse 8/500ml	
Product Code	AS10610.04.156	
Identified Use	Inoculant	
Supplier	Mycorrhizal Applications, LLC	
Address	710 NW E Street	
	Grants Pass, OR 97526 USA-	
Telephone Number (USA)	866-476-7800 (Monday-Friday, 7:00am – 4:00pm PST)	
24 Hour Medical Emergency Phone Number	877-315-9819 (PROPHARMA)	

## 2. HAZARDS IDENTIFICATION

OSHA Regulatory Status: Hazard Communication Standard (29 CFR 1910.1200)

#### 2.1 Classification of the Substance or Mixture

GHS Classification: None Signal Word: Warning Symbol/Pictogram: No Pictogram Hazard Statements: None

#### 2.2 GHS Label Elements

Prevention Statements: Wash hands and face thoroughly after handling.

Response Statements: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs get medical advice/attention.

Storage: Store in a dry area.

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

2.3 Other Hazards: None known.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical/Substance Name	Classification	CAS No.	Concentration (w/w %)
Active/Trade Secret – Non-Hazardous	Not classified	None	8.73*
Other Ingredients – Non-Hazardous	Not classified	None	91.27%*
*Exact percentages very based on batch to batch variability. Ingredients not identified are proprietary or non-bazardous			

## 4. FIRST AID MEASURES

4.1 Description of First	Aid Measures
Eye Contact	Remove from source of exposure. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists or signs of toxicity occur, seek medical attention.
Skin Contact	Remove from source of exposure. Wash with plenty of water. If skin irritation or rash occurs get medical advice/attention. If irritation persists or signs of toxicity occur, seek medical attention.
Ingestion	Remove from source of exposure. Move person to fresh air. Do NOT induce vomiting. Give large quantities of water. If signs of toxicity occur, seek medical attention. Provide symptomatic /supportive care as necessary.
Inhalation	Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.
4.2 Most important sym	ptoms and effects, both acute and delayed
Acute: Not kn	own - treat with caution. No information on acute adverse effects

**Acute:** Not known – treat with caution. No information on acute adverse effects. **Delayed:** Not known – treat with caution. No information on delayed adverse effects.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

## 5. FIRE FIGHTING MEASURES

## 5.1 Extinguishing Media and Suitable Extinguishing Media

Suitable Extinguishing Media: Dry chemical and carbon dioxide, alcohol resistant foam, sand, water fog or fine spray. Use appropriate medium for the underlying cause of the fire. Unsuitable Extinguishing Media: High Volume Water Jet (based on major component of mixture)

## 5.2 Special Hazards Arising from the Substance or Mixture

Containers may rupture from gas generation in a fire. Keep containers cool by spraying with water if exposed to fire. Thermal decomposition products Carbon oxides, nitrogen oxides, ammonia

Safety Data Sheet (SDS) MycoApply® EndoFuse 8/500ml SDS# MA-0061 Issued Date: 12/10/20 Revision # v.3

## 5.3 Special Protective Equipment/Procedures for Firefighters

Fire fighter should wear full-face, self-contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling combustion products. See Section 8 (Exposure Controls / Personal Protection)

## 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use in a well-ventilated area. Respiratory protection is not needed during normal product use. Wear eye protection appropriate to handling activities. Wear impervious gloves. Wear appropriate body coverings if contact may occur. Where exposure level is not known, wear respirator protection suitable for expected level of exposure, in addition to the personal protection as recommended in Section 8.

#### **6.2 Environmental Precautions**

Avoid unnecessary release to the environment. Prevent spillage from entering drains and/or surface water.

#### 6.3 Methods and Material for Containment and Cleaning Up

Ventilate area. Wear appropriate personal protective equipment. Recover product with inert material (earth, sand, vermiculite), place into appropriate container for disposal. Do not flush to sewer.

## 7. HANDLING & STORAGE

#### 7.1 Precautions for Safe Handling

Specific Gravity: (H2O = 1)

Partition coefficient (n-octanol/water)

Solubility in water

Avoid breathing mist or vapor. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Do not eat drink or smoke while working with product, obey reasonable safety precautions and practice good housekeeping. For filling operations respiratory protection may be recommended particularly in enclosed areas.

## 7.2 Conditions for Safe Storage, Including any Incompatibilities

9. PHYSICAL & CHEMICAL PROPERTIES

Protect against physical damage. Close containers of unused material. Store in a dry, cool, ventilated place. Keep away from source of ignition. Store separately from reactive or combustible materials and out of direct sunlight. No incompatibilities known.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure Controls				
Chemical Name Component Exposure Levels: Information collected from supplier			pplier SDS's.	
	Component	Regulation	Type of Listing	<u>Value</u>
	Polyethylene glycol	US WEEL	TWA aerosol	10 mg/m3
	Diethylene glycol	US WEEL	TWA	10 mg/m3
	Ethylene glycol	Dow IHG	TWA	50 mg/m3
		Dow IHG	STEL	100 mg/m3
		ACGIH	C Aerosol only	100 mg/m3
Engineering Controls	Provide general ventilation. Where adequate general ventilation is unavailable			
	use process enclosure, local exhaust ventilation, or other engineering controls.			
8.2 Personal Protective Equipment				
Skin Protection	Wear suitable protective clothing.			
Eye Protection	Safety glasses or goggles recommended.			
Respiratory Protection	For operations where the exposure limit may be exceeded, a NIOSH/MSHA			
	approved high efficiency particulate respirator is recommended.			

9.1 Information on basic Physical and Chemical Properties		
<u>Property</u>	<u>Value</u>	
State	Liquid	
Appearance	Pale yellow with Gray Shade	
Odor	Not determined	
Odor Threshold	Not determined	
pН	Not determined	
Melting Point /Freezing Point	Not determined	
Initial boiling point & range	Not determined	
Flashpoint	Not determined	
Evaporation Rate (Butyl acetate=1)	Not determined	
Flammability (solid, gas)	Not determined	
Bulk Density	1.02 – 1.11 g/ml	
Vapor pressure	Not determined	
Vapor density (air=1)	Not determined	

Not determined

Not determined

Not determined

Safety Data Sheet (SDS) MycoApply® EndoFuse 8/500ml SDS# MA-0061 Issued Date: 12/10/20 Revision # v.3

Autoignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not determined
Flammability Class	Not determined
Upper/Lower flammability limits	Not determined

10. STABILITY & REACTIVITY			
10.1 Reactivity	Material does not pose a significant reactivity hazard.		
10.2 Chemical Stability	Stable under ordinary conditions of use and storage. Spontaneous reaction not possible.		
10.3 Possibility of Hazardous Reactions	Does not undergo hazardous polymerization		
10.4 Conditions to Avoid	Exposure to elevated temperatures can cause product to decompose.  Generation of gas during decomposition can cause pressure in closed systems.		
10.5 Incompatible Material	Avoid contact with: Strong acids, strong bases and strong oxidizers.		
10.6 Hazardous Decomposition Products	Can include but not limited to: Carbon oxides, aldehydes, alcohols, ethers, carboxylic acids, polymer fragments.		

11. TOXICOLOGICAL INFORMATION			
11.1 Information on Toxicological Effects	11.1 Information on Toxicological Effects		
Likely Routes of Exposure			
Ingestion	Not likely.		
Inhalation	Yes		
Eye Contact	Yes		
Skin Contact	No known hazard.		
Chronic Effects	Yes		
Carcinogenicity Listing None.			
Formulation Toxicology	Toxicity not evaluated –treat as if it were hazardous.		

12. ECOLOGICAL INFORMATION				
12.1 Ecotoxicity	This product has not been tested for eco-toxicological effects. Treat with extreme caution and do not allow into waterways or lakes.			
12.2 Persistence and Degradability	Environmental persistence and fate not evaluated.			
12.3 Bioaccumulative Potential	No data available			
12.4 Mobility in Soil	No data available			
12.5 Results of PBT and vPvB	PBT: Assessments not performed			
Assessment	vPvB: Assessments not performed			
12.6 Other Adverse Effects	None currently known.			

# 13. DISPOSAL CONSIDERATIONS

## 13.1 Disposal Methods

Dispose of product in accordance with federal, state, provincial, and local regulations. Prevent contamination of environment by wastes. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. US EPA WASTE NUMBER & DESCRIPTIONS: There is no applicable EPA waste number. This product, if discarded, is not expected to be a characteristic or listed hazardous waste.

14. TRANSPORT INFORMATION				
14.1 Transport information	1			
	DOT	IMDG	<u>IATA</u>	<u>TDG</u>
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 be	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 US Regulations: Safety, Health	15.1 US Regulations: Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture		
US EPA Toxic Substances	Not Listed; Experimental Formulation		
Control Act (TSCA)			
CERCLA STATUS	Not Listed; Experimental Formulation		

Safety Data Sheet (SDS) MycoApply® EndoFuse 8/500ml SDS# MA-0061 Issued Date: 12/10/20 Revision # v.3

California Proposition 65	Experimental Formulation Warning – this product contains a chemical known in the State	
	of California to cause cancer: Propylene Oxide CAS# 75-56-9	
SARA STATUS	Acute: No Chronic: No CDT: No	
SARA 313	This mixture contains the following substance subject to the reporting requirements of	
	Section 313 Title III: Ethylene Glycol CAS # 107-21-1 RCRA STATUS: Not Listed;	
	Experimental Formulation	
RCRA STATUS	Not Listed; Experimental Formulation	
EINECS	NA	
State Right-To-Know	PA Worker and Community Right-To-Know Act: The following substance is listed	
-	because of the Additional requirements of Pennsylvania law: Diethylene glycol CAS#	
	111-46-6	
	Consult applicable national, state provincial or local laws to determine regulations, laws or	
	ordinances which may be applicable.	
OSHA HAZARD	Not defined by the OSHA Hazard Communication Standard, 29 CFR.	
COMMUNICATION STANDARD		
15.2 Pesticide Labeling: Not an EPA	registered pesticide.	
15.3 International Regulations:		
EU REACH	Contact Mycorrhizal Applications for information regarding REACH status.	
Japan MITI	No data available.	
AICS	No data available.	

1	6	. '	O		Н	Е	R	١N	ı	F	O	F	K I	VI	Α		)	N	

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.

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 12/10/20	Replaces SDS Dated: 12/13/18					
Revision notes: New Template	Revision # v.3					