

SAFETY DATA SHEET (SDS)

1. PRODUCT & COMPANY IDENTIFICATION

Product Name	MycoApply® EndoPrime SC – 4/1GA
Product Cod	AS10612.04.044
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: Eye Irritation – Category 2B.

Signal Word: Warning.

Symbol/Pictogram: None.

Hazard Statements: Causes Eye Irritation.

2.2 GHS Label Elements

Prevention Statements: Wash hands and face thoroughly after handling.

Precautionary Phrases: NA

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.

2.3 Other Hazards: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical/Substance Name</u>	<u>Classification</u>	<u>CAS No.</u>	<u>Concentration (w/w %)</u>
Dowfax 3B2 Solution Surfactant	Category 2B	Proprietary Mixture	5%*
Other Ingredients – Non-Hazardous	Not classified	None	95%*

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

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. If signs of toxicity occur, seek medical attention. Provide supportive care as necessary.
Inhalation	Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide supportive care as necessary.

4.2 Most important symptoms and effects, both acute and delayed

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

Thermal decomposition products

Carbon oxides, nitrogen oxides, ammonia.

5.3 Special Protective Equipment/Procedures for Firefighters

Protective Equipment and precautions for firefighters: Protective Equipment and precautions 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.)
Fire & Explosive hazard: Risk of ignition as described above in 5.2.

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.

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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

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:

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.

7.3 Incompatibilities:

None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters: Component Exposure Levels: Information collected from supplier SDS's.

Component	Regulation	Type of Listing	Value
None established	No PNEC's available	None listed	No DNEL's available

8.2 Exposure Controls

Engineering Controls	Provide general ventilation. Where adequate general ventilation is unavailable use process enclosure, local exhaust ventilation, or other engineering controls.
Respiratory Protection	For filling operations if dust/mist is produced respiratory protection is recommended or where respiratory protection is warranted, use dust/mist filtering respirator (MSHA/NIOSH approved number prefix TC-21C or a NIOSH approved respirator with any N, P, R or HE filter). Wash thoroughly with soap and water after handling.

8.3 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. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties

Property	Value
State	Liquid
Appearance	Tan suspension
Odor	Not determined
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)	1.03 – 1.06 g/ml
Solubility	Not determined
Partition coefficient (n-octanol/water)	Not determined
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	464 cP @ 30 C
Flammability Class	Not determined
Oxidation Properties	Not determined

10. STABILITY & REACTIVITY

10.1 Reactivity	Stable under ordinary conditions of use and storage.
10.2 Chemical Stability	Stable under ordinary conditions of use and storage.
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 Materials	Avoid contact with: Strong acids, strong bases and strong oxidizers.
10.6 Hazardous Decomposition Products	Can include but not limited to: Carbon monoxide, carbon dioxide and sulfur oxides.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:	
Likely Routes of Exposure	
Ingestion	Not likely.
Inhalation	Yes.
Eye Contact	Yes.
Skin Contact	Yes.
Formulation Toxicology	Toxicity not evaluated –treat as if hazardous. The major component does not have significant toxicity concerns.

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 Assessment	PBT: Assessments not performed. vPvB: Assessments not performed.
12.6 Other Adverse Effects	No other adverse effects known.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment 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				
	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	Not listed.																						
CERCLA STATUS	Not listed.																						
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,																						
State Right-To-Know	Other Component Information																						
		<table border="1"> <thead> <tr> <th rowspan="2">Chemical Name</th> <th colspan="4">State</th> </tr> <tr> <th>MA</th> <th>MN</th> <th>NJ</th> <th>PA</th> </tr> </thead> <tbody> <tr> <td>1,2-Propylene glycol CAS 57-55-6</td> <td>No</td> <td>No</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>Sulfuric acid disodium salt CAS 7757-82-6</td> <td>No</td> <td>No</td> <td>Yes</td> <td>Yes</td> </tr> </tbody> </table>			Chemical Name	State				MA	MN	NJ	PA	1,2-Propylene glycol CAS 57-55-6	No	No	Yes	Yes	Sulfuric acid disodium salt CAS 7757-82-6	No	No	Yes	Yes
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	MA = Massachusetts MN = Minnesota NJ = New Jersey PA = Pennsylvania Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312: Acute Health Hazard Chronic Health Hazard Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Pennsylvania Worker and Community Right-To-Know Act: The following chemicals are listed because of the additional requirements of Pennsylvania law: Components CASRN Sulfuric acid disodium salt 7757-82-6																						
OSHA HAZARD COMMUNICATION STANDARD	This formulation contains a component that is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.																						
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. 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			

Mycorrhizal Application, LLC
710 NW E Street
Grants Pass, Oregon 97526 USA
www.mycorrhizae.com
inquiries@mycorrhizae.com

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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: 10/21/20

Replaces SDS dated: 5/24/17

Revision notes: Update Template

Version: v.4