



SAFETY DATA SHEET (SDS)

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Symvado SC
Product Code(s) / SKU(s)	AS10119.04.301; AS10120.04.304
Identified Use	Inoculant
Distributor Information	Valent Biosciences LLC
Distributor Address	1910 Innovation Way, Suite 100
City, State Zip Code Country	Libertyville, IL 60048 USA
Manufacturer Information	Mycorrhizal Applications, LLC
Manufacturer Address	710 NW "E" Street
City, State Zip Code Country	Grants Pass, OR 97526 USA
USA Phone Number	(877) 696-4204
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: Can cause eye irritation.
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, seek 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

<u>Chemical/Substance Name</u>	<u>Classification</u>	<u>CAS No.</u>	<u>Concentration (w/w %)</u>
Other Ingredients – Non-Hazardous	Not classified	None	95.00%*
Dowfax 3B2 Solution Surfactant	Category 2B	Proprietary Mixture	5.00%*

*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 seek 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: Firefighter should wear full-face, self-contained breathing apparatus (SCBA) and impervious protective clothing. Firefighters should avoid inhaling combustion products. See Section 8 (Exposure Controls / Personal Protection).
Fire and 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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7. HANDLING AND 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 Safety Data Sheets)			
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).		
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 AND 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 and Range:	Not determined
Flashpoint:	Not determined



Evaporation Rate (Butyl acetate=1):	Not determined
Flammability (solid, gas):	Not determined
Bulk Density:	1.03 – 1.06 g/ml
Vapor Pressure:	Not determined
Vapor Density (air=1):	Not determined
Specific Gravity (H ₂ O = 1):	Not determined
Solubility in Water:	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
Upper / Lower Flammability Limits:	Not determined

10. STABILITY AND 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 Material	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 it were 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 Bio-accumulative 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	None 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 and 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	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 US Regulations: Safety, Health and Environment Regulations / Legislation Specific for the Substance or Mixture	
US EPA Toxic Substances Control Act (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.
EINECS	NA.
State Right-To-Know	Other Component Information: Chemical Name: 1,2 – Propylene glycol CAS 57-55-6; MA=No MN=No NJ=Yes PA=Yes Sulfuric acid disodium salt CAS 7757-82-6 MA=No MN=No NJ=Yes PA=Yes 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.	
15.3 International Regulations	
EU REACH	No data available.
Japan MITI	No data available.
AICS	No data available.

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			
<p>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, LLC 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, LLC 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 user's own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Mycorrhizal Applications, LLC to confirm that you have the most current product label and SDS.</p> <p>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 are set forth on the labeling and the SDS.</p>			
Revision History:			
10/04/2022: Original SDS issued.			
01/18/2023: Audit and revisions.			



SYMVADOTM
SC

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