

Safety Data Sheet (SDS) Symvado ST SDS# 194 Issued Date: 10/04/22

Revision # v.1

# SAFETY DATA SHEET (SDS)

#### 1. PRODUCT & COMPANY IDENTIFICATION

Product Name	Symvado ST	
Product Code	AS10121.04.307	
Identified Use	Inoculant	
Distributor Information	Valent Biosciences LLC	
Address	1910 Innovation Way,Suite 100	
	Libertyville, IL 60048 USA	
Manufacturer Information	Mycorrhizal Applications LLC	
Address	710 NW E Street	
	Grants Pass, OR 97526 USA	
Telephone Number (USA)	877-696-4204	
24 Hour Medical Emergency	877-315-9819 (PROPHARMA)	
Phone Number		

### 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 %)
Other Ingredients – Non-Hazardous	Not classified	None	91.27%*
Active/Trade Secret – Non-Hazardous	Not classified	None	8.73*
*Exact percentages very based on batch-to-batch variability. Ingredients not identified are proprietary or non-hazardous.			

## 4. FIRST AID MEASURES

4.1 Description of First A	id 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 symptoms and effects, both acute and delayed		
Acute: Not know	wn – treat with caution. No information on acute adverse effects.	
<b>Delayed:</b> Not known – treat with caution. No information on delayed adverse effects.		
4.3 Indication of any imm	ediate 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)



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### 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.

#### 5.3 Special Protective Equipment/Procedures 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).

### 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.

## 6.4 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

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. No incompatibilities known.

### 7.3 Incompatibilities:

None known.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure Controls					
Chemical Name	Component Exposure Levels: Information collected from supplier SDS's.				
	Component	Regulation	Type of Listing	Value	
	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. PHYSICAL & CHEMICAL PROPERTIES

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	
pH	Not determined	
Melting Point /Freezing Point	Not determined	
Initial boiling point & range	Not determined	



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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
Specific Gravity: (H2O = 1)	Not determined
Solubility in water	Not determined
Partition coefficient (n-octanol/water)	Not determined
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	ts Can include but not limited to: Carbon oxides, aldehydes, alcohols, ethers,		
•	carboxylic acids, polymer fragments.		

## 11. TOXICOLOGICAL INFORMATION

X		
11.1 Information on Toxicological Effects		
Likely Routes of Exposure		
Ingestion	Not likely.	
Inhalation	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 effects 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				
	<u>DOT</u>	<u>IMDG</u>	<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	Nota applicable	Not applicable	Not applicable
Packing group	Not applicable	Not applicable	Not applicable	Not applicable



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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	Not Listed.		
Control Act (TSCA)			
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	Not applicable.		
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	A 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.		

## 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				
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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.

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