



## SAFETY DATA SHEET (SDS)

### 1. PRODUCT AND COMPANY IDENTIFICATION

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|--|---|
| <b>Product Name</b>                            | Symvado <sup>®</sup> WSP  |
| <b>Product Code(s) / SKU(s)</b>                | A560705.04.01   |
| <b>Identified Use</b>                          | Inoculant   |
| <b>Manufacturer Information</b>                | Valent BioSciences LLC  |
| <b>Manufacturer Address</b>                    | 1910 Innovation Way, Suite 100  |
| <b>City, State Zip Code Country</b>            | Libertyville, IL 60048 USA  |
| <b>USA Phone Number</b>                        | (877) 696-4204  |
| <b>24 Hour Medical Emergency Phone Numbers</b> | (877) 315-9819 (ProPharma)<br>(800) 424-9300 (Domestic – ChemTrec)<br>(703) 741-5970 (International – ChemTrec) |

### 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>   |
| <p><b>GHS Classification:</b> Category 1.A<br/> <b>Signal Word:</b> Danger<br/> <b>Symbol/Pictogram:</b></p> <p><b>Hazard Statements:</b><br/> May cause cancer by inhalation.<br/> Causes damage to lungs through prolonged or repeated exposure by inhalation.</p>  |
| <b>2.2 GHS Label Elements</b>   |
| <p><b>Prevention Statements:</b><br/> Do not handle until all safety precautions have been read and understood.<br/> Do not breathe dust.<br/> Wash thoroughly after handling.<br/> Wear protective gloves and clothing.<br/> Do not eat, drink, or smoke when using this product.</p> <p><b>Response Statements:</b> If exposed or concerned, seek medical advice/attention.<br/> <b>Storage:</b> Store in a dry area.<br/> <b>Disposal:</b> Dispose of contents/container in accordance with local/regional/national/international regulations.</p> |
| <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> |
|--|-----------------------|----------------|------------------------------|
| Silica Hydrated (Amorphous Opaline Silica) | Not classified        | 7631-86-9      | 90-99%                       |
| Quartz (Respirable <0.1%)                  | Not classified        | 14808-60-7     | 0-5%                         |
| Proprietary – Other Ingredients            | Not classified        | NA             | 1-10%                        |

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

### 4. FIRST AID MEASURES

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| <b>4.1 Description of First Aid Measures</b>   |  |
| <b>Eye Contact</b>   | Rinse opened eye for several minutes under running water. If irritation persists or for foreign body in the eye, seek medical attention. |
| <b>Skin Contact</b>  | Wash with soap and water. Exposure to skin may cause mild irritation and dry skin.   |
| <b>Ingestion</b>   | If used material is ingested, seek medical attention. If large amount of unused material is swallowed, seek immediate medical attention. |
| <b>Inhalation</b>  | Move to fresh air. If irritation or other symptoms occur, 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.<br><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**

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| <b>5.1 Extinguishing Media and Suitable Extinguishing Media</b>   |
| <b>Suitable Extinguishing Media:</b> Use media that is appropriate for surrounding fire.<br><b>Unsuitable Extinguishing Media:</b> None known.  |
| <b>5.2 Special Hazards Arising from the Substance or Mixture</b>  |
| <b>Thermal Decomposition Products:</b> None known.  |
| <b>5.3 Special Protective Equipment / Procedures for Firefighters</b>   |
| <b>Protective Equipment and Precautions for Firefighters:</b> Breathing apparatus and protective clothing for fires involving chemicals or in confined spaces.<br><b>Fire and Explosive Hazard:</b> None known. |

**6. ACCIDENTAL RELEASE MEASURES**

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| <b>6.1 Personal Precautions, Protective Equipment and Emergency Procedures</b> |
| None known.  |
| <b>6.2 Environmental Precautions</b>   |
| Report releases as required by local and federal regulations.                  |
| <b>6.3 Methods and Material for Containment and Cleaning Up</b>                |
| None known.  |
| <b>6.4 Containment and Cleaning Up</b>   |
| Sweep up and collect for proper disposal.                                      |

**7. HANDLING AND STORAGE**

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| <b>7.1 Precautions for Safe Handling</b>   |
| Avoid breathing dust. Ensure good ventilation/exhaustion at the workplace. Follow good housekeeping practices to keep surfaces, including areas overhead such as piping, drop ceilings, ductwork, etc., dust free. |
| <b>7.2 Conditions for Safe Storage, Including any Incompatibilities</b>  |
| Store in a dry area. Keep container tightly sealed.  |
| <b>7.3 Incompatibilities</b>   |
| None known.  |

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

| <b>8.1 Control Parameters: Component Exposure Levels (Information collected from supplier Safety Data Sheets)</b> |  |                           |             |
|---|--|---------------------------|-------------|
| Component   | Regulation   | Type of Listing           | Value       |
| <b>Silica Hydrated</b> (Amorphous Opaline Silica)   | TWA OSHA PEL   | % SiO2                    | 80 mg/m3    |
| <b>Quartz</b> (crystalline silica)(respirable <1%)  | TWA OSHA   | % SiO2+2 (total dust)     | 30 mg/m3    |
|   | TWA OSHA PEL   | %SiO2+2 (respirable dust) | 10 mg/m3    |
|   | TWA ACGIH TLV  | (Respirable dust)         | 0.025 mg/m3 |
| <b>8.2 Exposure Controls</b>  |  |                           |             |
| <b>Engineering Controls</b>   | General ventilation is adequate for normal use. For operations where the exposure limit may be exceeded, local exhaust ventilation is recommended.   |                           |             |
| <b>Respiratory Protection</b>   | For operations where the exposure limit may be exceeded, a NIOSH/MSHA approved high efficiency particulate respirator is recommended.  |                           |             |
| <b>8.3 Personal Protective Equipment</b>  |  |                           |             |
| <b>Skin Protection</b>  | None required for normal use.  |                           |             |
| <b>Eye Protection</b>   | Safety glasses or goggles recommended.   |                           |             |
| <b>Respiratory Protection</b>   | None required for normal use. For operations where the dust concentration may exceed the OSHA or other regulatory exposure limits, or if the dust is visibly excessive, a NIOSH approved particulate respirator should be used. Follow OSHA regulations (or other national regulations, as applicable) in the proper selection and use respiratory protection. |                           |             |

**9. PHYSICAL AND CHEMICAL PROPERTIES**

| <b>9.1 Information on Basic Physical and Chemical Properties</b> |                   |
|--|-------------------|
| Property   | Value             |
| State:   | Granular Solid    |
| Appearance:  | Tan to Dark Brown |
| Odor:  | No odor           |
| 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 applicable |
| Flammability (solid, gas):               | Not applicable |
| Flammable Limits in Air % by Volume:     | Not determined |
| Upper / Lower Flammability Limits:       | Not determined |
| Vapor Pressure:                          | Not applicable |
| Vapor Density (air=1):                   | Not applicable |
| Relative Density (water=1):              | Not determined |
| Solubility:                              | Insoluble      |
| Partition Coefficient (n-octanol/water): | Not determined |
| Autoignition Temperature:                | Not determined |
| Decomposition Temperature:               | Not determined |
| Viscosity:                               | Not determined |
| Flammability Class:                      | Not determined |
| Oxidation Properties:                    | Not determined |

## 10. STABILITY AND 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> | None known.   |
| <b>10.4 Conditions to Avoid</b>                | No further relevant information available.  |
| <b>10.5 Incompatible Materials</b>             | Turpentine, hydrofluoric acid, vegetable oil, fish oil, unsaturated organic compound. |
| <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 excessive concentrations of dust may cause irritation to the respiratory tract.   |
| <b>Eye Contact</b>                               | Contact may cause mechanical irritation and possible injury.  |
| <b>Skin Contact</b>                              | No adverse effects expected.  |
| <b>11.2 Acute Toxicity</b>                       | No toxicity data available.   |
| <b>11.3 Corrosivity</b>                          | This is not a corrosive product.  |
| <b>11.4 Carcinogen Status</b>                    | The International Agency for Research on Cancer (IARC), in Monograph 100C has concluded that crystalline silica inhaled in the form of quartz is carcinogenic to humans (Group1). Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs. The National Toxicology Program (NTP) classifies crystalline silica as a known carcinogen. Applications and exposure data indicate that exposure to respirable quartz in this product with normal use is well below the OSHA Permissible Exposure Limit (PEL) and ACGIH Threshold Limit Value (TLV). The manufacturer is not aware of any scientific or medical data available indicating that exposure to respirable crystalline silica from this product under conditions of normal use will cause silicosis or cancer. Adverse effects would not be expected from normal use of this product. |
| <b>11.5 Repeat Dose Toxicity</b>                 | No toxicity data available. Inhalation of excessive concentrations of any dust, including this material, may lead to lung injury. This product contains <0.1% respirable crystalline silica. Excessive inhalation of respirable crystalline silica may cause silicosis, a progressive, disabling, and fatal disease of the lung. Symptoms may include cough, shortness of breath, wheezing and reduced pulmonary function.  |

## 12. ECOLOGICAL INFORMATION

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| <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>      | Amorphous opaline silica and silica are non-degradable.                                |
| <b>12.3 Bio-accumulative Potential</b>         | No further relevant information available.   |
| <b>12.4 Mobility in Soil</b>                   | No further relevant data available.  |
| <b>12.5 Results of PBT and vPvB Assessment</b> | PBT: Not applicable.<br>vPvB: Not applicable.  |
| <b>12.6 Other Adverse Effects</b>              | None known.  |



**13. DISPOSAL CONSIDERATIONS**

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| <b>13.1 Waste Treatment Methods</b>  |
| Dispose of product in accordance with local, state, and federal environmental regulations. Unused material is suitable for disposal in a sanitary landfill. Used material may be subject to regulation, depending on the nature of the material absorbed. Check with appropriate regulatory authority for used material. |

**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 applicable  | Not applicable | Not applicable | Not applicable |
| <b>Packing Group</b>              | Not applicable  | Not applicable | Not applicable | Not applicable |
| <b>Special Precautions</b>        | 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**

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|--|--|
| <b>15.1 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>   | None.  |
| <b>SARA STATUS</b>   | Acute: No. Chronic: No. CDT: No.   |
| <b>SARA 313</b>  | None.  |
| <b>EINECS</b>  | Components of this product are listed on the EINECS Inventory or exempt from notification requirements.  |
| <b>EEC R&amp;S Phrases</b>   | Xn Harmful, R48/20 Harmful: Danger of serious damage to health by prolonged exposure by inhalation; S22 Do not breathe dust; S38 In case of insufficient ventilation, wear suitable respirator equipment.  |
| <b>State Right-To-Know</b>   | California Proposition 65: This product contains respirable crystalline silica which is known to the State of California to cause cancer.<br><br>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.   |  |
| <b>15.3 International Regulations</b>  |  |
| <b>Japan MITI</b>  | No data available.   |
| <b>AICS</b>  | No data available.   |

**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  |             |                  |                |
| <b>16.1 GHS Abbreviations and Phrases for Reference</b>  |             |                  |                |
| ® = Registered Trademark<br>™ = Registered Trademark<br>L = Listed<br>S = Short-term<br>N/A = Not Applicable<br>N/L = Not Listed<br>N/D = Not Determined<br>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, Valent BioSciences, 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 Valent BioSciences, 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 Valent BioSciences, LLC to confirm that you have the most current product label and SDS. |             |                  |                |



**SYMVADO<sup>®</sup>**  
**WSP**

**Safety Data Sheet (SDS)**  
**Symvado<sup>®</sup> WSP**  
**SDS# VBC-0001**  
**Issue Date: 08/01/23**  
**Version # v.1**

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.

**Revision History:**

08/01/2023: Original SDS issue date.

**SDS Issue Date:** 08/01/2023

**Version:** v.1