**VERMACAST**

**SAFETY DATA SHEET**

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| **SECTION 1: Identification** |
| **Product Identifier:** Vermacast |
| **Manufacturer’s Address:**  Spiker Farms LTD  12877 N. 600th St.  Wheeler, IL 62479 |
| **Manufacturer’s Phone Number:**  (217) 683-2336 |
| **Emergency Phone Number:**  911 |
| **Recommended Use:** As a fertilizer or soil amendment, or as an ingredient in fertilizers or soil amendments. |

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| **SECTION 2: Hazard Identification** | |
| Acute Toxicity, Oral – Category 5 |  |
| **Signal Word:** Warning | |
| **Pictograms** | |
| **Hazard Statements**  H303: May be harmful if swallowed. | |
| **Precautionary Statements**  P102: Keep out of reach of children.  P103: Read label before use.  P312: Call a POISON CENTER or doctor/physician if you feel unwell. | |

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| **SECTION 3: Composition Information** | |
| Trade Secret | 100% |
| **Total** | 100% |

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| **SECTION 4: First-Aid Measures** |
| INHALATION: Remove to fresh air immediately. If victim is not breathing, give artificial respiration. If symptoms develop, seek medical attention. |
| SKIN CONTACT: Flush skin thoroughly with clean water. If irritation occurs, seek medical attention. |
| EYE CONTACT: Remove contact lenses. Flush affected eye(s) continuously for 15 minutes with clean water. If irritation or other symptoms develop, seek medical attention. |
| INGESTION: Drink plenty of water. Do not induce vomiting. Seek medical attention if symptoms develop. **Never give anything by mouth to an unconscious/unresponsive person.** |
| **Symptoms of Exposure**  Long-term inhalation of dust may irritate mucous membranes. May cause minor irritation to the eyes. Skin contact may produce skin irritation. Eye contact may produce eye irritation. Ingestion may cause stomach upset. |
| **Recommendations for Immediate Medical Care**  Remove all residual material if possible. Product may contain naturally-occurring microorganisms, so any exposed open wounds or mucous membranes should be decontaminated appropriately. |

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| **SECTION 5: Fire-Fighting Measures** |
| **Suitable Extinguishing Media:** Water spray, dry chemical, CO2, foam |
| **Specific Hazards Arising from this Substance:** Burning may continue inside bags or piles after surface fire is extinguished. Break bags or separate piles to ensure that fire is fully extinguished. Thermal decomposition products are those commonly observed with natural products like wood or vegetable matter. |
| **Recommendations for Firefighter Protective Equipment:** Firefighters should wear self-contained breathing apparatus, operated in positive-pressure mode, as well as appropriate protective clothing. |

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| **SECTION 6: Accidental Release Measures** |
| **Personal Precautions:** Wear gloves, work clothes, and eye protection. |
| **Emergency Procedures:** Spills are not hazardous, so evacuation is not necessary. If spilled material constitutes a safety hazard, cordon off spill area. |
| **Methods of Containment:** Contain spillage with any appropriate physical barrier. |
| **Cleanup Procedures:** Spilled material should be transferred to appropriate containers. It should be disposed of according to local regulations. It may be disposed of as organic waste. |

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| **SECTION 7: Handling and Storage** |
| **Precautions for Safe Handling:** Product may generate dust under certain conditions. Product may absorb moisture from the environment. Protect open wounds from contact with product. Avoid breathing airborne dust. |
| **Conditions for Safe Storage, Including Incompatibilities:** Store indoors at ambient temperature, preferably in a dry location. Keep away from children and pets. Store above 32°F and below 120°F where possible. Keep away from open flame, sparks, and heat sources. |
| **Further Information:** Use good personal hygiene practices This substance is made from natural products, and is likely to contain naturally-occurring microorganisms. Take proper precautions to avoid infection of open wounds, inhalation of large quantities of dust, and eye irritation. Hygiene practices necessary to prevent health hazards from natural substances such as soil, wood chips, bark, compost, etc. should be observed. |

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| **SECTION 8: Exposure Controls / Personal Protection** | | | |
| **OSHA PEL**  NDA | **ACGIH**  NDA | **TLV**  NDA | **Other Exposure Limits**  NDA |
| **Engineering Measures:** Store indoors at ambient temperature. Provide local exhaust ventilation. | | | |
| **Eye Protection:** Safety glasses or safety goggles should be worn where eye exposure is likely. | | | |
| **Hand Protection:** Any appropriate gloves. | | | |
| **Skin and Body Protection:** Normal work clothing. | | | |
| **Respiratory Protection:** If dust is created, use a NIOSH-approved respirator. | | | |
| **General Protective and Hygiene Practices:** Appropriate respirator, eye protection, and local ventilation where excessive dust may be generated. Open wounds should be kept clean and protected. After handling material, wash hands before eating, drinking, smoking, or using restrooms. Keep away from foodstuffs and beverages. | | | |

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| **SECTION 9: Physical and Chemical Properties** |
| **Physical State:** Solid |
| **Appearance:** Brown or black solid. Loose, spongy granules. |
| **Odor:** None or earthy. |
| **Odor Threshold:** NDA |
| **pH:** NDA |
| **Melting Point:** NDA |
| **Boiling Point/Range:** NDA |
| **Flash Point:** NDA |
| **Evaporation Rate:** NDA |
| **Flammability (solid, gas):** NDA |
| **Flammability or explosive limits:**  **Upper:** NDA  **Lower:** NDA |
| **Vapor Pressure:** NDA |
| **Relative Density:** NDA |
| **Solubility:** NDA |
| **Partition coefficient; n-octanol/water:** NDA |
| **Autoignition Temperature:** NDA |
| **Decomposition Temperature:** NDA |
| **Viscosity:** Solid. |

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| **SECTION 10: Stability and Reactivity** |
| **Reactivity:** Inert. |
| **Stability:** Stable under normal conditions. |
| **Conditions to Avoid:** Keep away from open flames, hot surfaces, and sources of ignition. |
| **Incompatible Materials:** Strong acids, strong bases, strong oxidizers, strong reducing agents. |
| **Hazardous Decomposition Products:** Carbon monoxide (CO), carbon dioxide (CO2). |

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| **SECTION 11: Toxicological Information** |
| **Likely Routes of Exposure:** Possible routes of exposure include eye contact, skin contact, ingestion, or inhalation of dust. |
| **Effects of Exposure:** NDA |
| **LD50:** NDA |
| **Description of Symptoms:** NDA |
| **NTP/IARC Carcinogenicity:** NDA |

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| **SECTION 12: Ecological Information** |
| **Ecotoxicity:** NDA |
| **Biodegradation:** Product is a natural material, and will biodegrade. |
| **Octanol-Water Partition Coefficient:** NDA |
| **Bioconcentration Factor:** NDA |
| **Other Adverse Effects:** None. |

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| **SECTION 13: Disposal Considerations** |
| For safe handling practices, see Section 8. |
| **Disposal Containers:** Material may be disposed of in any suitable container. Open-topped plastic drums are recommended. |
| **Disposal Methods:** Material may be disposed of as organic waste, according to state, local, and federal laws. |
| **Properties Affecting Disposal:** None |
| **Special Precautions for Landfill or Incinerator Disposal:** None. |
| **Do not dispose of waste product in sewers, storm drains, lakes, ponds, streams, or other bodies of water.** |

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| **SECTION 14: Transport Information** |
| **UN Number:** Unknown |
| **UN Proper Shipping Name:** Vermacast |
| **Transport Hazard Class(es):** None |
| **Packing Group Number:** N/A |
| **Environmental Hazard(s):** None |
| **Guidance on Transport in Bulk:** Product may shift or settle during shipping. Product’s weight may change as water is absorbed from/released to atmosphere. |
| **Special Precautions:** Product may shift or settle during shipping. |

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| **SECTION 15: Regulatory Information** |
| No special regulatory information. |

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| **SECTION 16: Other Information** |
| **Date Prepared:** August 1, 2017 |
| **Last Revision:** May 25, 2018 |
| **Prepared By:** Matthew Banks, Chief Science Officer |
| **Preparer Contact Information:**  PO Box 2099,  Indian Trail, NC 28279  Ph: (704) 283-2457  Fx: (704) 283-2104  E-mail: vermaplex@live.com |

(NDA = No Data Available)

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