

SECTION 1: IDENTIFICATION OF SUBSTANCE / PREPATION AND COMPANY / UNDERTAKING

Product Name: BioWake for Corn

SDS number: 742

Product Use: Microbial Inoculant and Seed Lubricant

Supplier Address: AMVAC Chemical Corporation
4695 MacArthur Court, Suite 1200
Newport Beach, CA 92660 USA

Telephone: 949-260-1200
Product Use: 888-462-6822

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Website: www.amvac.com

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Emergency Numbers: Medical: 888-681-4261
CHEMTREC: 800-424-9300 (outside the US +1-703-527-3887)

SECTION 2: HAZARDS IDENTIFICATION

Hazard Classification: Combustible Dust

GHS Label Elements: Warning

Hazard Statement (GHS): May form combustible dust concentrations in air

Hazards Not Otherwise Classified: Direct contact with skin or eyes may cause slight irritation in some individuals. Inhalation of dust may cause respiratory tract irritation in some individuals.

Percentage of Ingredients with Unknown Toxicity: None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredient | CAS Number | Percent |
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| <i>Methylobacterium gregans</i> strain NL7 | Not applicable | 1-5% |
| Proteins, soy | 9010-10-0 | 76-78% |
| Mixture of inert ingredients | Not applicable to mixtures | 17-23% |

SECTION 4: FIRST AID MEASURES

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| General: | Remove from source of exposure. If irritation or other signs of toxicity occur, seek medical attention. |
| Eyes: | Hold eye open and rinse slowly and gently with plenty of water for at least 15 minutes. If present, remove contact lenses and continue rinsing eye. |
| Skin: | Remove contaminated clothing. Thoroughly wash skin with plenty of soap and water. |
| Inhalation: | Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration. |
| Ingestion: | Call a doctor immediately if a large amount is swallowed. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person. |

Most Important Symptoms, Acute and Delayed:

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| Eyes: | May cause eye irritation. Symptoms may include discomfort or pain, excess blinking, and tear production, with possible redness and swelling. |
| Skin: | May cause skin irritation. Repeated exposure may cause skin dryness or cracking. |
| Inhalation: | May cause irritation to the respiratory tract. |
| Ingestion: | May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting, and diarrhea. |

SECTION 5: FIRE FIGHTING MEASURES

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| General: | Use methods and protective gear that are appropriate for the conditions and size of the fire. |
| Extinguishing Media: | Foam. Dry powder. Water spray. Carbon dioxide (CO ₂). Unsuitable extinguishing media: None known. |
| Special Equipment: | Self-contained breathing apparatus and full protective gear according to the conditions and size of the fire. |
| Fire Hazard: | Combustible dust. Products of combustion may include and are not limited to oxides of carbon. |
| Explosion Hazard: | Airborne dust in sufficient concentrations when confined and exposed to a significant ignition source can explode. |

SECTION 6: ACCIDENTAL RELEASE MEASURES

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| Personal Precautions: | Wear suitable protective clothing such as long-sleeved shirt, pants, waterproof gloves, and shoes with socks. |
| Methods for Clean up: | Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Use only non-sparking tools. Remove all sources of ignition. Avoid generating dust during clean up; provide ventilation. Carefully mop or sweep up spill and place in container for disposal. Rinse area with water. |
| Environmental Precautions: | Prevent entry to sewers and public waters. |
| Containment Methods: | Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer or allow to enter waterways. Use appropriate personal protective equipment (PPE). |

Section 6 Notes: Refer to section 8 for personal protection and section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

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| Precautions for safe handling: | Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Avoid generating and breathing dust. Avoid contact with skin and eyes. Do not swallow. Use only in well ventilated areas. Handle and open container with care. When using do not eat, drink, or smoke. Good housekeeping is important to prevent accumulation of dust. The use of compressed air for cleaning clothing, equipment, etc., is not recommended. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. |
| Hygiene measures: | Wash contaminated clothing before reuse. Always wash hands after handling the product. |
| Storage Conditions: | Keep out of the reach of children. Keep container tightly closed. Keep away from sources of ignition. Store in dust-tight, dry, labelled containers. Avoid any dust buildup by frequent cleaning and suitable construction of the storage area. Do not contaminate other pesticides, fertilizers, water, or feed by storage or disposal. |

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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| General: | Protective clothing should be selected according to the conditions likely to be encountered in the workplace. Applicators should follow label instructions. No exposure limits have been established. |
| Engineering Controls: | Ensure good ventilation of the workstation. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is not leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks. |
| Environmental exposure controls: | Avoid release to the environment. |
| Personal Protective Equipment (PPE): | |
| Respiratory: | In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If dusty conditions exist, use a dust-filtering face mask or a NIOSH approved respirator with any N, R, P or HE filter for biological products |
| Eyes and Face: | Safety glasses or goggles are recommended when using product. |
| Hands / Skin: | Gloves made from chemically resistant material such as neoprene, vinyl, rubber, or nitrile. |
| Other clothing: | Wear suitable protective clothing such as long-sleeved shirt, pants, and shoes with socks. |
| Hygienic Practices: | Wash hands and exposed skin before eating, drinking, smoking, or using the toilet. |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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| Physical state | Solid |
| Appearance | Powder |
| Color | Off-white to slightly pink |
| Odor | Slightly earthy, sweet |
| pH | 6.3-7.5 (at 1.00g/L) |
| Melting point | No data available |
| Freezing point | No data available |
| Boiling point | No data available |
| Flash point | No data available |
| Flammability | Combustible dust |
| Evaporation rate | No data available |
| Density | 0.42 ± 0.05 g/ml |
| Solubility | Dispersible in water |
| Partition coefficient n-octanol/water | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity | No data available |
| Explosive limits | No data available |
| Explosive properties | No data available |
| Oxidizing properties | No data available |

SECTION 10: STABILITY AND REACTIVITY

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| Reactivity: | No dangerous reactions known under normal conditions of use. |
| Chemical Stability: | Stable under normal conditions. May form combustible dust concentrations in air. |
| Possibility of hazardous reaction: | No dangerous reactions known under normal conditions of use. |
| Conditions to avoid: | Heat. Incompatible materials. Avoid dust formation. Sources of ignition. |
| Incompatible materials: | Oxidizing agents. |
| Hazardous decomposition products: | May include and are not limited to oxides of carbon. |

SECTION 11: TOXICOLOGICAL INFORMATION

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| Acute toxicity (oral) | Not classified |
| Acute toxicity (dermal) | Not classified |
| Acute toxicity (inhalation) | Not classified |
| Skin corrosion/irritation | Not classified |
| Serious eye damage/irritation | Not classified |
| Respiratory or skin sensitization | Not classified |
| Germ cell mutagenicity | Not classified |
| Carcinogenicity | Not classified |
| Reproductive toxicity | Not classified |
| STOT-single exposure | Not classified |
| STOT-repeated exposure | Not classified |
| Aspiration hazard | Not classified |
| Symptoms after inhalation | May cause irritation to the respiratory tract. |
| Symptoms after skin contact | May cause skin irritation. Repeated exposure may cause skin dryness or cracking. |
| Symptoms after eye contact | May cause eye irritation. Symptoms may include discomfort or pain, excess blinking, tear production, and possible redness and swelling. |
| Symptoms after ingestion | May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. |
| Other information | Likely routes of exposure: ingestion, inhalation, skin, and eye. |

Section 11 Notes: None of the components of this product are listed as carcinogenic by NTP, IARC, or OSHA.

SECTION 12: ECOLOGICAL INFORMATION

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| Toxicity: | May cause long-term adverse effects in the aquatic environment. |
| Persistence and degradability: | Not established. |
| Bioaccumulative potential: | Bioaccumulation unlikely |
| Mobility in soil: | No additional information available |
| Other adverse effects: | No other effects known. |

SECTION 13: DISPOSAL CONSIDERATIONS

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| Disposal method: | Open dumping or burning of this material or its packaging is prohibited. If spilled material cannot be disposed of by use according to label instructions, <u>one</u> acceptable method of disposal is to incinerate in accordance with local, regional, and national environmental regulations. |
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Empty container: Completely empty package into application equipment, rinse with water and add rinsate to application equipment. Dispose of empty package in accordance with applicable environmental regulations.

Section 13 Notes: Regulatory requirements are subject to change and acceptable methods of disposal can vary by location. The appropriate agencies should be contacted for advisement prior to disposal.

SECTION 14: TRANSPORT INFORMATION

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| Land: | ADR/RID Class | Not controlled under ADR (Europe) |
| Water: | IMDG Class | Not controlled under IMDG |
| Air: | IATA-DGR Class: | Not controlled under IATA |
| Other: | US DOT Freight Classification | Not regulated Not regulated |

SECTION 15: REGULATORY INFORMATION

Federal Regulations: All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

International Regulations: No additional information available.

US State Regulations: California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

SECTION 16: OTHER INFORMATION

Revision Date: 11-November-2022

Other Information: Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

DISCLAIMER:

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