

# **SAFETY DATA SHEET**

## SECTION 1: IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY / UNDERTAKING

Product Name: BioWake<sup>TM</sup> for Peanut

SDS Number: 812

Product Use: Microbial Inoculant

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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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
Methylobacterium radiotolerans strain	Not applicable	0.2-5%
NL1		
Proteins, soy	9010-10-0	76-78%
Mixture of inert ingredients	Not applicable to mixtures	17-23%

Material name: BioWake<sup>™</sup> for Peanut SDS US Version # 1.0 Revision Date: Oct-17-2023 Issue date: Oct-17-2023 Page 1 of 8

#### **SECTION 4: FIRST AID MEASURES**

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:

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**

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<sub>2</sub>).

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.

Material name: BioWake<sup>TM</sup> for Peanut SDS US Version # 1.0 Revision Date: Oct-17-2023 Issue date: Oct-17-2023 Page 2 of 8

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**

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.

Material name: BioWake<sup>™</sup> for Peanut SDS US Version # 1.0 Revision Date: Oct-17-2023 Issue date: Oct-17-2023 Page 3 of 8

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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

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 with side shields 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.

Material name: BioWake<sup>™</sup> for Peanut SDS US Version # 1.0 Revision Date: Oct-17-2023 Issue date: Oct-17-2023 Page 4 of 8

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Solid Physical state Appearance Powder Color Off-white to slightly pink Odor Slightly earthy, sweet 6.3-7.5 (at 1.00g/L) Hq 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  $0.42 \pm 0.05 \text{ g/ml}$ Solubility Dispersible in water Partition coefficient n-octanol/water No data available No data available Auto-ignition temperature No data available Decomposition temperature Viscosity No data available No data available **Explosive limits Explosive properties** No data available No data available Oxidizing properties

### **SECTION 10: STABILITY AND REACTIVITY**

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.

Hazardous decomposition products: Oxidizing agents.

Hazardous Polymerization: May include but not limited to oxides of carbon.

Material name: BioWake<sup>™</sup> for Peanut SDS US Version # 1.0 Revision Date: Oct-17-2023 Issue date: Oct-17-2023 Page 5 of 8

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

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**

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**

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.

Material name: BioWake $^{\text{TM}}$  for Peanut SDS US Version # 1.0 Revision Date: Oct-17-2023 Issue date: Oct-17-2023 Page 6 of 8

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**

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 Not regulated

Freight Classification 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: 26 September 2023

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.

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Material name: BioWake<sup>™</sup> for Peanut SDS US Version # 1.0 Revision Date: Oct-17-2023 Issue date: Oct-17-2023 Page 8 of 8