

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS - CAUTION.
Causes moderate eye irritation. Avoid contact with eyes or clothing.
Wash thoroughly with soap and water after handling and before eating, drinking, chewing-gum, using tobacco or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Mixers I loaders and applicators not in enclosed cabs or aircraft must wear a dust I mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

USER SAFETY RECOMMENDATIONS

Users'should:

- Remove clothing immediately if pesticide gets-inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS: Do not contaminate water when disposing of equipment washwaters or rinsate. Do not apply to treated, finished drinking water reservoirs or drinking water receptacles when the water is intended for human consumption.

DIRECTIONS FOR USE
It is a violation of Federal law to apply this product in a manner inconsistent with its labeling.

SPHERATAX SPH (50 G) is a highly selective microbial insecticide effective against mosquitoes in a variety of habitats. Apply SPHERATAX SPH (50 G) to any water sites except treated, finished water reservoirs or drinking water receptacles when the water is intended for human consumption. SPHERATAX SPH (50 G) can be applied to areas that contain aquatic life, fish and plants. SPHERATAX SPH (50 G) can be applied to areas used by or in contact with humans, animals, horses, livestock, pets, birds or wildlife.

- APPLICATION DIRECTIONS**
- Mosquito species effectively controlled by SPHERATAX SPH (50 G).**
- Aedes vexans*
 - Anopheles quadrimaculatus*
 - CoquilLettidia perturbans*
 - Culex spp.*
 - Ochlerotatus melanimon (Aedes melanimon)*
 - Ochlerotatus nigromaculis (Aedes nigromaculis)*
 - Ochlerotatus sollicitans (Aedes sollicitans)*
 - Ochlerotatus stimulans (Aedes stimulans)*
 - Ochlerotatus triseriatus (Aedes triseriatus)*
 - Psorophora columbiae*
 - Psorophora ferox*

For control of mosquito larvae from the list of affected species above in agricultural/non-crop sites where mosquito breeding occurs.



ACTIVE INGREDIENT:	
Bacillus sphaericus, Serotype H5a5b, strain 2362*	5.00%
OTHER INGREDIENTS:	
	95.00%
TOTAL:	
	100.00%

* Equivalent to 50 Bacillus Sphaericus International Toxic Units (BS ITU) per mg of product (0.023 billion BS ITU per lb of product). Potency units should not be used to adjust rates beyond those specified in the Directions for Use Section. Note: The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID	
If in eyes	<ul style="list-style-type: none">Hold eye open and rinse slowly and gently with water for 15 - 20 minutes.Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.Call a poison control center or doctor for treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.	

EPA Reg. No.: 84268-2
EPA Establishment No.: 9198-OH-1

Manufactured for:
ADVANCED MICROBIOLOGICS, LLC
1801 North Gale Road
Mitchell, SD 57301

Net Contents: 40 Lbs. / 18.14 Kgs
Batch Code:

Habitats	Rate/Acre
Wastewater: Sewage effluent, sewage lagoons, oxidation ponds, septic ditches, animal waste lagoons, impounded wastewater associated with fruit and vegetable processing.	5.0 - 20lbs
Storm Water/Drainage Systems: Storm sewers, catch basins, drainage ditches, retention, detention, and seepage ponds.	5.0 - 20 lbs
Marine/Coastal Areas: Salt marshes, mangroves, estuaries.	5.0 -20 lbs
Water Bodies: Natural and man-made aquatic sites such as lakes, ponds rivers, canals, and streams.	5.0 -20 lbs
Dormant Rice Fields: Impounded water in dormant rice fields. (For application only during the interval between harvest and preparation of the field for the next cropping cycle.)	5.0-20lbs

Use higher rates (10 - 20 lbs / acre) in areas where extended residual control is necessary, or in habitats having deep water or dense surface cover. Apply uniformly by aerial and conventional ground equipment. Reapply as needed after 1-4 weeks. Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equip-ment and weather related factors determine the potential spray drift. The applicator and treatment coordinator are responsible for considering all these factors when making decisions.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.
Pesticide Storage: Store in a cool, dry place.

Pesticide Disposal: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments of by industry).

Container Disposal: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. Then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration. Do not burn unless allowed by state and local ordinances. If outside container is contaminated, dispose of in the same manner as the bag.

NOTICE TO USER
To the extent consistent with applicable law, seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on the label. User assumes all risks of use; storage or handling not in strict accordance with label instructions.

Safety Data Sheet – Spheratax SPH (50 G)

Section I: Identification

Product Identification

Trade Name: Spheratax SPH (50 G)

EPA Reg. No. 84268-2

Recommended Use of the Chemical and Restriction on Use

For use against mosquitoes in a variety of habitats This product may be applied to any water sites except treated, finished water reservoirs or drinking water receptacles when the water is intended for human consumption. This product may also be applied to areas that container aquatic life, fish and plants, and to areas used by or in contact with humans, animals, horses, livestock, pets, birds or wildlife.

Manufacturer Details

Advanced Microbiologics, LLC

1801 North Gale Road

Mitchell, SD 57301 U.S.A.

Emergency Phone Numbers

Within the U.S.A.: 954.345.9321

Outside the U.S.A.: +1.954.345.9321

Section II: Hazards Identification

Other Hazards

Emergency Overview:

Product is non-toxic by ingestion, skin contact or inhalation. Direct contact with eyes or skin may cause mild irritation.

Route(s) of Entry:

Skin: No

Inhalation: No

Ingestion: No

Eye Contact: Mildly irritating to rabbit eyes.

Skin Contact: Mildly irritating to rabbit skin.

Skin Sensitization: Sensitization agent.

Target Organs: ND

Signs and Symptoms of Exposure:

Direct contact with eyes or skin may cause mild irritation.

See Section XI: Toxicological Information for more information.

Section III: Composition/Information on Ingredients

Substance

Chemical Name	CAS/EC No.	Percentage
<i>Bacillus sphaericus</i> 2362, Serotype H5z5b, Strain AML614*	NA	4.75-5.25

*Equivalent to 50 *Bacillus sphaericus* International Toxic Units (BS ITU) per mg of product (0.023 billion BS ITU per lb. of product).

See Section XV: Regulatory Information for more information.

Section IV: First Aid Measures

Description of First Aid Measures

Eye Contact:

Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

Skin Contact:

Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

Ingestion:

Remove from source of exposure. 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.

Section V: Fire-Fighting Measures

Suitable Extinguishing Media

Use appropriate medium for underlying cause of fire.

Specific Hazards Arising from the Chemical

ND

Special Protective Equipment and Precautions for Fire-Fighters

Wear protective clothing and self-contained breathing apparatus.

Section VI: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

ND

Environmental Precautions

ND

Methods and Materials for Containment and Cleaning Up

Recover product. Place into appropriate container for disposal. Avoid dust. Ventilate and wash spill area.

See Section VIII: Exposure Controls/Personal Protection and Section XIII: Disposal Considerations for more information.

Section VII: Handling and Storage

Precautions for Safe Handling

Wear impervious gloves and clothing to minimize skin contact. Wash thoroughly with soap and water after handling. If necessary, use safety glasses or goggles.

Conditions for Safe Storage

Tightly reclose containers of unused materials. Do not contaminate water, food or feed by storage or disposal. Store in a secure, cool, dry well-ventilated location. Avoid temperatures above 85°F/29°C.

Section VIII: Exposure Controls/Personal Protection

Control Parameters

See Personal Protective Equipment below for more information.

Engineering Controls

Use local exhaust.

Personal Protective Equipment

Wear impervious gloves and clothing to minimize skin contact. Wash thoroughly with soap and water after handling. If necessary, use safety glasses or goggles. While not usually required, mixers/loaders and applicators not in enclosed cabs or aircraft must wear a dust/mist respirator meeting NIOSH standards of at least N-95, R-95 or P-95.

Section IX: Physical and Chemical Properties

Physical State:	Light Tan Powder	Vapor Density:	NA
Odor:	Mild, acidic fermentation	Relative Density:	NA
Odor Threshold:	ND	Solubility:	NA

pH:	6.8-7.0 (aq. sol.)	Partition Coefficient (n-octanol/water):	ND
Melting Point/Freezing Point:	NA	Auto-Ignition Temperature:	ND
Initial Boiling Point and Range:	NA	Decomposition Temperature:	ND
Flash Point:	NA	Viscosity:	NA
Evaporation Rate:	ND	Explosion Hazard:	Not explosive
Flammability (solid, gas):	Non-flammable	Oxidizing Properties:	NA
Upper/Lower Flammability or Explosive Limits:	No explosive properties	Bulk Density:	25-30 lbs./ft. ³
Vapor Pressure:	NA		

Section X: Stability and Reactivity

Reactivity

Hazardous polymerization will not occur.

Chemical Stability

Stable

Possibility of Hazardous Reactions

None

Conditions to Avoid

High temperatures and alkaline environments.

Incompatible Materials

Alkaline environment may denature the active ingredient.

Hazardous Decomposition Products

ND

Section XI: Toxicological Information

Toxicological Data

Acute Toxicity

Oral LD₅₀: LD₅₀ (rat) >5,000 mg/kg

Dermal LD₅₀: LD₅₀ (rabbit) > 2,000 mg/kg

Inhalation LC₅₀: The LC₅₀ in 4-hour inhalation studies in rat was >2.04 mg/L (actual) of air, the maximum attainable concentration.

Dermal and Eye Irritation: Mildly irritating to rabbit eyes and skin.

Dermal Sensitization: The product is a contact sensitizing agent in guinea pig studies.

Corrosiveness: Non-corrosive

Carcinogenicity Information

NTP	IARC	OSHA	ACGIH
NL	NL	NL	NL

Section XII: Ecological Information

Ecotoxicity

ND

Persistence and Degradability:

ND

Section XIII: Disposal Considerations

Disposal Methods

Dispose of product in accordance with Federal, state and local regulations. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Section XIV: Transport Information

Not regulated for land, water or air transportation.

Section XV: Regulatory Information

TSCA Status: Exempt

CERCLA Status: ND

CERCLA Reportable Quantity: NL

SARA Status: ND

SARA Title III Data

Sections 311 and 312 Hazard Categories

Immediate Health Hazard None

Delayed Health Hazard None

Fire Hazard None

Reactive Hazard None

Sudden Pressure Release Hazard None

Section 302 Extremely Hazardous Substances: None

Section 313 Toxic Chemicals: None

RCRA Status: ND

California Proposition 65: NL

FIFRA Section 3 Information

KEEP OUT OF REACH OF CHILDREN

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Section XVI: Other Information

Clarification of Abbreviations: NA = Not Applicable

ND = Not Determined

NL = Not Listed

Revision History:

May 26, 2015 – SDS was issued in compliance with U.S.A.'s adoption of the Globally Harmonized System of Classification and the associated regulations as defined by the Occupational Safety and Health Administration (OSHA).

January 2015 (Superseded) – MSDS was issued to update the format.

April 8, 2009 (Superseded)

February 22, 2009 (Superseded) – Initial issuance.

Disclaimer: The information and statements herein are believed to be reliable but are not to be construed as warranty or representation for which we assume no legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their particular purpose of any information or product referred to herein.

NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.