

# AQUABAC® (200 G)

**ACTIVE INGREDIENT:** *Bacillus thuringiensis* subspecies *israelensis*  
 Strain BMP 144 solids, spores and insecticidal toxins\* ..... 2.86%  
**OTHER INGREDIENTS:** ..... 97.14%  
**TOTAL:** ..... 100.00%

\*Equivalent to 7,000 International Toxic Units (ITU/mg) (0.091 Billion ITU/pound).  
Note: The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

SPECIMEN

## KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
See back panel for additional precautionary statements and directions for use.	

EPA Reg. No. 62637-3 Net Contents: 40 Pounds (18.2 kg)  
 EPA Establishment No. 9198-OH-1<sup>M</sup>, 9198-OH-2<sup>B</sup>, 9198-AL-1<sup>A</sup>, 9198-PA-1<sup>P</sup>  
 Superscript letter is first letter used in run code on bag.

## PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS – CAUTION:** Harmful if inhaled or absorbed through skin. Avoid breathing dust. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Mixers/loaders and applicators not in enclosed cabs or aircraft must wear a dust/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.

**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. AQUABAC (200 G) is a highly selective microbial insecticide effective against mosquitos in a variety of habitats.

Apply AQUABAC (200 G) to any water sites *except* treated, finished water reservoirs or drinking water receptacles when the water is intended for human consumption.

### MOSQUITOES:

Habitat	Rate Required for Control*
Flood water, roadside ditches, irrigation ditches, rice fields, pastures, woodland pools, snowmelt pools, tidal water, salt marshes, catch basins, storm water retention areas, lakes, golf course ponds, irrigation ponds, ornamental zoo ponds, ornamental ponds, ponds, water gardens, greenhouses, nurseries, standing water. . . . .	2.5 - 10.0 lbs/acre

\*When late third and early fourth instar larvae predominate, larval populations are high, or water is heavily polluted and/or algae are prevalent, use 10-20 lbs/acre.

### SPECIFIC APPLICATION INSTRUCTIONS

Uniformly apply AQUABAC (200 G) in conventional aerial and ground application equipment, or by hand using a seed spreader or other calibrated application equipment. Use a seven- to fourteen-day interval between applications, except in cases of heavy insect pressure when shorter intervals are needed. Longer periods of mosquito population suppression can result where sufficient numbers of non-target aquatic invertebrate parasites and predators are present, since these invertebrates are not affected by AQUABAC (200 G) and contribute to mosquito population reduction.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determines the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

**Pesticide Storage:** Store in a cool, dry place.

**Pesticide Disposal:** Wastes resulting from use of this product must be disposed of on-site or at an approved waste disposal facility.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. 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 burned, stay out of smoke.

## 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 this label. To the extent consistent with applicable law, user assumes all risks of use, storage or handling not in strict accordance with label instructions.

In case of emergency endangering life and property involving this product, call collect, day or night, (954) 345-9321.

# Safety Data Sheet – AQUABAC (200 G)

## Section I: Identification

### Product Identification

**Trade Name:** AQUABAC (200 G)  
**EPA Reg. No.** 62637-3

### Recommended Use of the Chemical and Restriction on Use

Mosquito biolarvicide granule for Commercial or Residential use to containerized standing water or any private water sites **except** treated, finished drinking water reservoirs or drinking water receptacles when the water is intended for human consumption or state waters. This product can be applied to areas that contain aquatic life, fish and plants and to areas used by or in contact with humans, animals, horses, livestock, pets, birds or wildlife.

### Manufacturer Details

Becker Microbial Products, Inc.  
11146 N.W. 69<sup>th</sup> Place  
Parkland, FL 33076 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:** Non-irritant

**Skin Contact:** Non-irritant

**Skin Sensitization:** Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

**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 thuringiensis</i> subspecies <i>israelensis</i> Strain BMP 144 solids, spores and insecticidal toxins*	NA	2-4

\*Equivalent to 7,000 International Toxic Units (ITU/mg) (0.091 Billion ITU/pound).

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**

See Section VIII: Exposure Controls/Personal Protection for additional information.

**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/30°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, 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

<b>Physical State:</b>	Granular Solid	<b>Vapor Density:</b>	NA
<b>Odor:</b>	Mild odor of grain	<b>Relative Density:</b>	NA
<b>Odor Threshold:</b>	ND	<b>Solubility:</b>	NA

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

## Section X: Stability and Reactivity

### Reactivity

Hazardous polymerization will not occur.

### Chemical Stability

Stable

### Possibility of Hazardous Reactions

ND

### Conditions to Avoid

Alkalinity inactivates product.

### Incompatible Materials

Alkaline environment may denature the active ingredient.

### Hazardous Decomposition Products

ND

## Section XI: Toxicological Information

### Toxicological Data

#### Acute Toxicity

**Oral LD<sub>50</sub>:** LD<sub>50</sub> (rat) >5,000 mg/kg

**Dermal LD<sub>50</sub>:** LD<sub>50</sub> (rabbit) > 2,000 mg/kg

**Inhalation LC<sub>50</sub>:** The LC<sub>50</sub> in 4-hour inhalation studies in rat was 25.1 mg/L.

**Dermal and Eye Irritation:** Non-irritating to rabbit eyes or skin.

**Dermal Sensitization:** Non-sensitizing 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**

**CAUTION**

#### PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS – CAUTION:** Harmful if inhaled or absorbed through skin. Avoid breathing dust. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

## 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).

**March 2012 (Superseded)** – MSDS was issued to update the format.

**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.