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# B2E-02

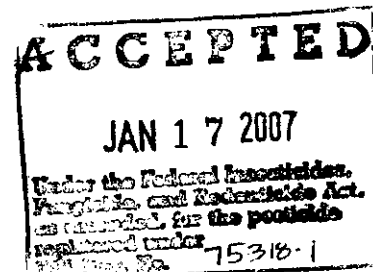
## MASTER LABEL An Insect Growth Regulator

<b>Sublabel A:</b>	<b>Commercial Use – Mosquitoes</b>
<b>Sublabel B:</b>	<b>Commercial Use – Mosquitoes – Supplemental Labeling</b>
<b>Sublabel C:</b>	<b>Commercial Use – Filter Flies &amp; Non-biting Midges</b>
<b>Sublabel D:</b>	<b>Guide to Granular Formulation</b>
<b>Optional Label Claims</b>	

(Alternate Brand Names: **AQUAPRENE™ WP; ULTRAPRENE™ WP**)

### ACTIVE INGREDIENT:

(S)-Methoprene (CAS #65733-16-6) . . . . . 39.2%  
OTHER INGREDIENTS: . . . . . 60.8%  
 Total: . . . . . 100.0%



EPA Reg No. 75318-1  
EPA Est. No.

NET CONTENTS : \_\_\_\_ lb.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See (back panel) (side panel) (insert label) for additional precautionary statements

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

FIRST AID	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin</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>
<p>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-XXX-XXX-XXXX for emergency medical treatment information.</p>	

### ENVIRONMENTAL HAZARDS

Do not contaminate water when disposing of equipment washwaters or rinsate.

**Sublabel A: Commercial Use – Mosquitoes**

**WETTABLE POWDER PREVENTS ADULT MOSQUITO EMERGENCE WHEN APPLIED PRE OR POST-HATCH (INCLUDING THOSE WHICH MAY TRANSMIT WEST NILE VIRUS)**

**INTRODUCTION**

**B2E-02** releases effective levels of S-Methoprene insect growth regulator to prevent the emergence of adult mosquitoes from treated sites. **B2E-02** can be applied as a pre-hatch or post-hatch application either diluted in water or used to make granules. Treated larvae continue to develop normally to the pupal stage where they die. **B2E-02** prevents the emergence of adult mosquitoes from treated areas.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

**APPLICATION DIRECTIONS**

Apply **B2E-02** to mosquito breeding sites at any time during the mosquito season. **B2E-02** is most effective on 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and early 4<sup>th</sup> instar larval mosquitoes to prevent adult emergence. Under typical environmental conditions, one application will control for up to 7 days. Continue treatments on regular intervals throughout the mosquito season.

Apply **B2E-02** prior to flooding (i.e. "pre-hatch") to known mosquito breeding sites. Apply pre-hatch treatments to dry sites up to 14 days prior to flooding to control floodwater mosquitoes. Higher application rates as specified on this label will lengthen the pre-hatch application window.

For ground and aerial application, use the amount of **B2E-02** listed below in sufficient water to provide complete coverage. Do not apply when weather conditions will cause drift from the areas to be treated. Use **B2E-02** Granules to make treatments under windy conditions or to dense vegetation. Do not apply this product through any type of irrigation system.

**NOTE:** The active ingredient S-Methoprene has no effect on mosquitoes that have reached the pupal or adult stage prior to treatment.

**APPLICATION RATES**

Select target mosquito species and corresponding application rate. Place pouches in sufficient water to treat **5 acres** and apply using conventional liquid application methods.

*Aedes, Ochlerotatus, Anopheles and Psorophora spp.:*

Apply 1 to 2 **B2E-02** pouches for pre-hatch applications  
Apply 1 **B2E-02** pouch for post-hatch applications

*Culex, Culiseta, Coquillettidia and Mansonia spp.:*

Apply 2 to 4 **B2E-02** pouches for post-hatch applications

Within these ranges, use lower rates when water is shallow [<2 ft], vegetation and/or organic matter is minimal. Use higher rates when water is deep [>2 ft] and when vegetation and/or organic matter is heavy. Application of **B2E-02** to sites subject to water flow or exchange will diminish the product's effectiveness and may require higher application rates and/or more frequent applications within the ranges of the use rates specified.

## MIXING AND HANDLING INSTRUCTIONS

1. Partially fill spray tank with water, then add the number of **B2E-02** water soluble pouches to spray tank, mix, and complete filling.
2. Use 16 mesh slotted screens in spray nozzles.
3. Use spray solutions within 48 hours; always agitate before and during spraying.
4. Keep water soluble pouches sealed in original foil package until ready to use. Once outer foil bag is opened, use contents before deterioration from contact with humidity or moisture.

## APPLICATION SITES

Apply **B2E-02** pre-hatch or post-hatch as directed above to temporary and permanent water sites which support mosquito larval development. Examples of typical sites are: freshwater and salt water marshes, cattail marshes, woodland pools and meadows, grassy swales, floodplains, irrigated croplands, pastures and rangeland (without removal of livestock), vineyards, rice fields (including wild rice), fruit and nut orchards, berry fields and bogs, water hyacinth beds, vegetation-choked phosphate pits, dredge spoil sites, wastewater treatment facilities, waste settling ponds, sewers, septic ditches, animal waste effluent lagoons, catch basins, storm water retention basins, storm drains, retention and detention ponds, drainage areas, roadside ditches, tree holes, log decks, tires, water-holding receptacles, ornamental ponds and fountains, animal watering troughs and ponds, fish ponds, flooded crypts, transformer vaults, abandoned swimming pools, artificial water-holding containers, and other natural and manmade depressions where mosquitoes may breed.

For sites with dense vegetation or canopy, use **B2E-02** to make granules on sand or other carrier that can be applied pre or post-hatch using standard granular dispersal equipment. For detailed preparation instructions, refer to **Guide to Granular Formulation**.

## 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 this product may be disposed of on site or at an approved waste disposal facility.

### CONTAINER DISPOSAL

Dispose of the empty outer foil pouch in the trash, as long as WSP is unbroken.

## WARRANTY AND CONDITIONS OF SALE

Seller makes no warranty, express or implied, concerning the use and handling of this product other than indicated on the label. To the fullest extent permitted by law, buyer assumes all risks of use and handling of this material when such use and handling are contrary to label instructions.

Always read the label before using this product.

For information, call 1-XXX-XXX-XXXX or visit our web site: [www.\\_\\_\\_\\_\\_.com](http://www._____.com)

**B2E Biotech LLC**  
**3330 Noyac Road**  
**Sag Harbor, NY 11963**

**Sublabel B: Commercial Use – Mosquitoes – Supplemental Labeling**

**B2E-02**  
**An Insect Growth Regulator**  
**(to prevent the emergence of adult mosquitoes)**

**Supplemental Labeling**

**Directions for use for tank mixing with *Bacillus thuringiensis israelensis (Bti)* formulations**

**IMPORTANT**

Before using this product, read carefully, observe all application directions, restrictions, and Precautionary Statements on the B2E-02 EPA-registered label.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

**TANK MIXING INSTRUCTIONS**

B2E-02 may be tank mixed with liquid *Bacillus thuringiensis* subsp. *israeliensis (Bti)* formulations. The ratio of B2E-02 to *Bti* liquid is 1 (one) B2E-02 water soluble pouch to 3 - 6 gallons of *Bti* liquid concentrate. For example, to prepare a 1:6 tank mix, add 1 B2E-02 water soluble pouch to 6 gallons of liquid *Bti*. This tank mix can be applied to sites listed on the B2E-02 EPA-registered label at rates of 2-16 fluid ounces/acre (0.15-1.2 liters/hectare).

***This labeling must be in the possession of the user at the time of pesticide application.***

For information, call 1-XXX-XXX-XXXX or visit our web site: [www.\\_\\_\\_\\_\\_.com](http://www._____.com)

**B2E Biotech LLC**  
**3330 Noyac Road**  
**Sag Harbor, NY 11963**

**Sublabel C: Commercial Use – Adult Filter Flies & Non-Biting Midges**

**PREVENTS THE EMERGENCE OF ADULT FILTER FLIES AND MIDGES  
KEEPS INFESTATIONS UNDER CONTROL**

**INTRODUCTION**

**B2E-02** is a unique product that controls filter flies (*Psychodidae*) and midges (*Chironomidae*) infesting waste water treatment facilities. **B2E-02** contains an insect growth regulator (IGR) that effectively controls the last stage of these insect pests. **B2E-02** does not control adults but prevents the larval stage from developing into flying adults. **B2E-02** keeps pest infestations under control by stopping the reproduction cycle, without shutting down your treatment facility. Regular use of **B2E-02** prevents these pests from developing into annoying infestations.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

**APPLICATION DIRECTIONS**

**WASTE WATER TREATMENT FACILITY PESTS**

Use **B2E-02** in trickling filters, sludge drying beds, clarifiers, holding ponds, lagoons, influent structures, stagnant or standing water, or other areas of waste water treatment facilities where midges and filter flies are a problem.

**WHAT TO EXPECT IN WASTE WATER TREATMENT FACILITIES  
CONTINUOUS FLOW SEWAGE (WASTE WATER)**

To achieve effective results, **B2E-02** must be applied to continuous flow systems on a daily basis for at least 2 weeks. A gradual reduction in the number of adult pests will be seen over a 7 day period with significant reduction seen after 14 days of treatment. Failure to apply **B2E-02** daily may produce erratic results. Very heavy infestations often require slightly longer to achieve the desired control level. Since the mode of action of **B2E-02** is to prevent adult emergence, adults and pupa present at the time of initial application will complete their life cycle. Pest populations can be expected to rebound within 2-3 weeks following the last day of treatment. For continuous suppression throughout the pest season, continue application of **B2E-02** at regular intervals.

**SLUDGE OR SOLID WASTE APPLICATIONS**

For solid waste applications, use 1 pouch per 0.7 million gallons of sludge or solids. Apply the dilution until the drying beds have been filled, then stop the application. Make applications of the dilution at the influent side as the sludge or solids where they enter into the drying beds. Application of **B2E-02** to solids will prevent pest insect emergence and keep infestations under control.

**APPLICATION METHODS**

**WASTE WATER TREATMENT FACILITIES**

Dilute **B2E-02** with water prior to use. Apply **B2E-02** by using a metering pump, drip bucket, or other suitable equipment. Metering pumps are the most efficient and accurate method of application. The application method will influence appropriate product dilution. Prepare desired volume of dilution to apply over a 6-8 hour period or in the case of sludge beds, applied until the beds have been filled. When using delivery devices, it is important to calibrate the device to deliver the required amount of **B2E-02** over a 6-8 hour period.

**APPLICATION RATE  
WASTE WATER TREATMENT PESTS**

Apply 1 pouch of **B2E-02** for every 0.7 million gallons of sewage (waste water). This sewage should include sufficient water, to ensure uniform application at the influent side (as directed above).

**APPLICATION TO WASTE WATER – TRICKLING FILTER**

Apply 1 pouch of **B2E-02** for every 0.7 million gallons of sewage (waste water) in sufficient water to uniformly apply the material (as directed above). Make applications at times of low flow (typically evening through early morning hours) for 6-8 hours. Discontinue treatment during peak flow periods and repeat applications the following day during a low flow period. Continue this application method for 7 to 10 days or until suppression of pests is achieved. Repeat applications every 15 days or as necessary to control pests.

**MIXING AND HANDLING INSTRUCTIONS**

1. Add the required amount of **B2E-02** pouches to application tank partially filled with water, mix, and complete filling with the remaining water. Always agitate before and during application.
2. Use 16 mesh slotted screens in spray nozzles.
3. Keep water soluble pouches sealed in original foil package until ready to use. Once outer foil bag is opened, use contents before deterioration from contact with humidity or moisture.

**APPLICATION SITES  
WASTE WATER TREATMENT FACILITIES**

Make applications of **B2E-02** to sewage as it flows into trickling filters, sludge drying beds, clarifiers, holding ponds, lagoons, influent structures, stagnant or standing water, or other areas of waste water facilities where pests are a problem. Make **B2E-02** applications as the sewage enters (influent areas) the waste water treatment area. For best results, apply at the influent side.

**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 this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL**

Dispose of the empty outer foil pouch in the trash, as long as WSP is unbroken.

**WARRANTY AND CONDITIONS OF SALE**

Seller makes no warranty, express or implied, concerning the use and handling of this product other than indicated on the label. To the fullest extent permitted by law, buyer assumes all risks of use and handling of this material when such use and handling are contrary to label instructions.

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**B2E Biotech LLC  
3330 Noyac Road  
Sag Harbor, NY 11963**

**Sublabel D: Guide to Granular Formulation**

**Guide to Granular Formulation**

**How to Make B2E-02 Sand Granules On-site**

**INTRODUCTION**

Sand granules improve the delivery of active ingredients to water by effective penetration of vegetative canopy, as well as provide greater ease of application. B2E-02 can be easily formulated into a sand granule as follows.

**PREPARATION INSTRUCTIONS**

For example, to make a 100 pound batch of B2E-02 sand granules use a cement/rotating type mixer and the following materials:

- 99.0 lbs. washed, dry sand
- 0.1 lb. of ISP PVP/VA W-635
- 0.5 lb. of water
- 2 pouches of B2E-02
- 0.10 lb. of Microcel-E Drying Agent

1. Make a tack solution by thoroughly mixing 0.1 lb. of ISP PVP/VA W-635 in 0.5 lb. of water.
2. Place the tack solution in a hand sprayer equipped with a flat fan or cone spray nozzle and pressurize the sprayer.
3. Place 99 lbs. of dry sand in the mixer. While mixer is rotating, spray the tack solution onto the dry sand until the face of the rolling granules begin to drag (indicating a uniform tacky coating on all granule particles).
4. Cut open two B2E-02 pouches and slowly add the powder to the top of the rolling face of granules until all the B2E-02 powder is delivered and the granules begin to roll freely. Continue to blend the granules for 2 more minutes.
5. Next, stop the mixer and add 0.10 lb. of Microcel-E drying agent. Cover the mixer opening to reduce airborne dust. Start mixer again, and run for 3 minutes
6. Discharge finished granules into containers for transport to the field.

**APPLICATION RATES AND METHODS**

Apply granules to mosquito breeding sites as pre-hatch or post-hatch applications, in accordance with the product label, at an application rate of 5.0, 7.5 or 10.0 lbs. per acre using standard granule application equipment. Refer to the chart below to select the dosage rate, application rate per acre and the number of pouches required to make a 100 lb. batch of B2E-02 sand granules. Apply the quantity of tack solution as necessary to attach larger quantities of B2E-02 on sand granules.

8/9

Dosage Rate (In Pouches)	Granule Application Rate/Acre (lbs.)	Pouches of B2E- 02 to 99 lbs of washed sand
1	5.0	4
1	7.5	3
1	10.0	2
2	5.0	8
2	7.5	6
2	10.0	4
3	5.0	12
3	7.5	9
3	10.0	6
4	5.0	16
4	7.5	12
4	10.0	8

**B2E Blotech LLC, 3330 Noyac Road,  
Sag Harbor, NY 11963**

For directions for use, limitations and precautions, carefully read label attached to container.

For information, call 1-XXX-XXX-XXXX or visit our web site: [www.\\_\\_\\_\\_\\_.com](http://www._____.com)



<b>OPTIONAL LABEL CLAIMS</b>
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- An Insect Growth Regulator to prevent the emergence of [adult] mosquitoes.
- An Insect Growth Regulator to prevent the emergence of [adult][nuisance] filter flies and midges.
- Prevents Adult Mosquito Emergence (including those which may transmit West Nile Virus).
- Kills (mosquitoes) (developing mosquitoes) (mosquito larvae) (before they hatch) including those which may (can) transmit (carry) West Nile Virus (and encephalitis) (and equine encephalitis).
- Kills (mosquitoes) (developing mosquitoes) (mosquito larvae) before they become breeding, biting adults, including those which may (can) transmit (carry) West Nile Virus (and encephalitis) (and equine encephalitis).
- Won't harm humans, animals, fish or vegetation when used as directed.
- When used as directed, **B2E-02** [will not][won't] harm humans, animals, fish or vegetation.
- Can be applied to areas that contain aquatic life, fish and plants.
- Highly selective larvicide.
- Effectively reduces mosquito populations.
- *Biochemical mosquito larvicide.*
- A (highly selective) insect growth regulator effective against mosquitoes in a variety of habitats.
- Prevents the development of adult mosquitoes.
- Prevents immature mosquitoes from developing into adults.
- Prevents emergence of breeding, biting adult mosquitoes.
- Prevents the development of mosquito larvae.
- Treat mosquitoes at the source.
- Kills developing mosquito larvae.
- Smart Dose Controlled Release.