



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Biopesticides and Pollution Prevention Division (7511C)  
1200 Pennsylvania Avenue NW  
Washington, DC 20460

EPA Reg. Number:

75318-1

Date of Issuance:

FEB 28 2005

Term of Issuance:

Conditional

Name of Pesticide Product:

B2E-02

NOTICE OF PESTICIDE:

Registration  
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

B2E Biotech, LLC  
P.O. Box 1483  
Bridgehampton, NY 11932-1483

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA Sec. 3(c)(7)(A) provided you:

1. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Revise the EPA Registration Number to read, "EPA Reg. No. 75318-1."
3. Submit three (3) copies of the revised final printed labeling before you release the product for shipment.
4. Make the label changes as outlined on the following pages of this notice.

Signature of Approving Official:

(See second page for signature)

Date

Label Revisions

- 1. Add the statement. "Do not apply this product to fish-bearing waters" to the front panel of the proposed product label.
- 2. Remove the following aquatic food use sites and the natural aquatic use sites listed below from your product label: (i.e. freshwater marshes, saltwater marshes, cattail marshes, grassy swales, floodplains, and ricefields, etc.) so that your "Application Sites" section reads:

"Apply B2E-02 pre-hatch or post-hatch as directed above ONLY to the following water sites: vineyards, fruit and nut orchards, berry fields and bogs\*, woodland pools and meadows, pastures and rangelands, ornamental water hyacinth beds, vegetation-choked phosphate pits, dredge spoil sites, wastewater treatment facilities, waste settling ponds, septic ditches, animal waste effluent lagoons, storm water retention basins, retention and detention ponds, tires with standing water, log decks, tree holes, ornamental ponds and fountains, flooded crypts, transformer vaults, abandoned swimming pools and artificial water holding containers.

\* Qualify the use site bogs by specifically identifying peat bogs. If peat bogs are not the intended use site, bogs must be deleted, so as not to confuse with cranberry bogs, etc.

- 3. Revise the Environmental Hazards statement to read:

"Do not apply to water that drains into public waterways."

- 4. Under "Application Directions" found on page 2:

Revise the second paragraph "Apply B2E-02 prior to flooding..." to reflect the removal of floodplains as a use site on the product label.

- 5. While understandably intended for professional use, EPA may not approve a label with Directions for Use that are vague and lack clarity. Revise your Directions for Use as follows:

- a. Revise the final sentence of the first paragraph under "Continuous Flow Sewage":

"For continuous suppression throughout the pest season, continue application of B2E-02, at regular intervals." (pg. 3)

- b. Revise the statement under "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." (pg. 3)

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- c. The application methods and techniques described on your label require that you revise it to comply with PR Notice 87-1, regarding products applied through irrigation systems.
- d. Submit the "Guide to Granular Formulation," referred to on page 3 of your product label.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely,



Janet L. Andersen, Ph.D., Director  
Biopesticides and Pollution  
Prevention Division (7511C)

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**B2E-02**

**MASTER LABEL**  
**An Insect Growth Regulator**  
*(to prevent the emergence of adult mosquitoes)*  
*(to prevent the emergence of adult filter flies & non-biting midges)*  
*(to prevent emergence of adult sciarid flies in mushroom culture)*

**ACTIVE INGREDIENT:**

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

EPA Reg No. 75318-  
 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.

<b>FIRST AID</b>	
<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, and then continue rinsing eyes.</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.

**ACCEPTED**  
**with COMMENTS**  
**In EPA Letter Dated**  
**FEB 28 2005**

**Under the Federal Insecticide,  
 Fungicide, and Rodenticide Act  
 as amended, for the pesticide  
 registered under EPA Reg. No.  
 75318-1**

**(Directions for Use for B2E-02 to prevent the emergence of adult 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 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.

**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 applied 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.

**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 spray solutions within 48 hours; always agitate before and during spraying.
3. Protect water soluble pouches from humidity and moisture. Reseal container after opening.

**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

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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**.

**(Directions for Use for B2E-02 to prevent the emergence of 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*), midges (*Chironomidae*), and other nuisance aquatic insect species 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, filter flies, and other nuisance aquatic insect pests 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**.

**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) in sufficient water to apply uniformly at the influent side.

**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. 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. Protect water soluble pouches from humidity and moisture. Reseal container after opening.

**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.

*(Directions for Use for B2E-02 to prevent emergence of adult sciarid flies in mushroom culture [WPS Use])*

**AN INSECT GROWTH REGULATOR TO PREVENT THE EMERGENCE OF ADULT SCIARID FLIES IN MUSHROOM CULTURE**

(WPS Language to be included in the Precautionary Statements)

**Personal Protection Equipment (PPE)**

Some materials that are chemical-resistant to this product are listed below. For more options, follow the instructions for category E on an EPA chemical resistance category selection chart. Applicators and other handlers must wear: long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, such as neoprene rubber (≥14 mils), nitrile rubber (≥14 mils), barrier laminate, or viton (≥14 mils). Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Engineering Control Statements:**

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)]. The handler PPE requirements may be reduced or modified as specified in the WPS.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must provide all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

**User Safety Recommendations:**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- 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.

**INTRODUCTION**

Methoprene, the active ingredient in **B2E-02** insect growth regulator (IGR), is a chemical analog of a natural insect hormone. Unlike traditional pesticides, methoprene does not kill insects directly; it interferes with the normal process of insect development. **B2E-02** will prevent the emergence of adult Sciarid flies when incorporated into the mushroom growing medium. Under most conditions, fly control is achieved without adverse effects on mycelium growth or mushroom yield. As **B2E-02** must be ingested by fly larvae before pupation, pupae and adults present at the time of application will not be affected. If high adult populations are present, initial use of a conventional adulticide will insure the best overall results. After treatment with **B2E-02**, larvae will continue to develop to the pupal stage where they will die. Fly numbers will begin declining 3-4 days after treatment; maximum control is achieved two weeks after treatment.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses on this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.

Exception: if the product is soil injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves, such as neoprene rubber (≥14 mils), nitrile rubber, (≥14 mils), barrier laminated, or viton (≥14 mils)
- Shoes plus socks

Do not apply this product through any type of irrigation system.

**METHOD, RATE, AND TIMING OF APPLICATION**

Use either METHOD A, METHOD B, METHOD C or METHOD D

**APPLICATION INSTRUCTIONS****A. INCORPORATE AT TIME OF CASING**

Apply **B2E-02** at the rate of 2 pouches per 800 sq ft.

Mechanically mix into casing material prior to the casing operation, or drench evenly onto the surface of the casing immediately after placement.



**B. INCORPORATE IN COMPOST AT TIME OF SPAWNING AND IN CASING AT TIME OF PLACEMENT OF CASING LAYER IN COMPOST AT TIME OF SPAWNING**

Apply **B2E-02** at the rate of 2 pouches per 800 sq ft in adequate water for even distribution. Spray or sprinkle on the surface of compost at the time of spawning and thoroughly incorporate using a spawning machine or other suitable mechanical means.

**IN CASING**

Apply **B2E-02** at the rate of 1 pouch per 800 sq ft. Make application evenly and mechanically mix into casing material prior to the casing operation, or drench evenly onto the surface of the casing immediately after setting it in place.

**C. COMPOST SURFACE DRENCH BEFORE CASING AND IN CASING AT TIME OF PLACEMENT OF CASING LAYER**

For a 16-day or longer spawn run, use a split application.

**FIRST APPLICATION, ON COMPOST**

Apply **B2E-02** 12 to 13 days after spawning. Drench **B2E-02** evenly on the surface at the rate of 1 pouch per 800 sq ft in adequate water for even distribution.

**SECOND APPLICATION, IN CASING**

Apply **B2E-02** at the rate of 1 pouch per 800 sq ft. Make application evenly and mechanically mix into casing material prior to the casing operation, or drench evenly onto the surface of the casing immediately after setting it in place.

**D. INCORPORATE IN CASING AT TIME OF CASING, FOLLOWED BY A SURFACE APPLICATION OF B2E-01 PRIOR TO FIRST BREAK OF MUSHROOMS**

**FIRST APPLICATION, IN CASING**

Apply **B2E-02** at the rate of 2 pouches per 800 sq ft. Make application evenly and mechanically mix into casing material prior to the casing operation, or drench evenly onto the surface of the casing immediately after setting it in place.

**SECOND APPLICATION, ON CASING**

Follow with a surface drench of **B2E-01** to the first break of mushrooms. Refer to **B2E-01** label directions.

**MIXING AND HANDLING INSTRUCTIONS**

1. Partially fill spray tank with water, then add the number of **B2E-02** pouches to spray tank, mix, and complete filling with the remaining water.
2. Use spray solutions within 48 hours; always agitate before and during spraying.
3. Protect product from humidity and moisture. Reseal container after opening.

**EFFECT ON MUSHROOMS**

In most cases, **B2E-02** mushroom yield improves as a result of reducing Sciarid fly damage. As different practices are used in mushroom culture, growers can conduct small plots tests to determine that reduced crop yields will not occur under their cultural conditions.

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**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**  
**500 Mamaroneck Avenue**  
**Harrison, NY 10528**