

75318-6

6-6-2006

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Amy Plato Roberts  
for B2E Biotech, LLC  
Technology Sciences Group  
1150 18<sup>th</sup> Street, NW, Suite 1000  
Washington, DC 20036

JUN 06 2006

794177 | 332  
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RE: Product Name: B2E-01  
EPA Reg. No: 75318-6  
Application for Notification Dated: 13 Apr 2006

Dear Ms. Roberts:

The Biopesticides and Pollution Prevention Division is in receipt of your application for Notification under 98-10 dated above. A preliminary screen of this request has been conducted for its applicability under PRN 98-10 and it has been determined that the action(s) requested falls within the scope of PRN 98-10. Our records have been duly noted, and the label submitted with this application has been stamped "Notification, received, but not reviewed" and will be placed accordingly in our records.

Questions concerning this action should be directed to Mari Duggard at 703-308-0028 or email at [duggard.mari@epa.gov](mailto:duggard.mari@epa.gov).

Sincerely,

*Sheryl K. Reilly*

Sheryl K. Reilly, Ph.D.  
Chief  
Biochemical Pesticides Branch  
Biopesticides and Pollution Prevention Division

CONCURRENCES

SYMBOL	▶ 7511P						
SURNAME	▶ DUGGARD						
DATE	▶ 6 JUN 06						

**B2E-01**  
An Insect Growth Regulator

Reviewed By: M. Duggard

[Alternate Brand Names: Aquaprene EC, Ultraprene EC, Sciariprene]

**MASTER LABEL, includes:**

**Sublabel A: Control of insect pests in tobacco processing and storage facilities**  
**Sublabel B: Prevent the emergence of adult Sciarid flies in mushroom culture**  
**Sublabel C: Prevent the emergence of stored product insects**  
**Sublabel D: Prevent the emergence of adult filter flies & non-biting midges**  
**Sublabel E: Prevent the emergence of adult floodwater mosquitoes**

**ACTIVE INGREDIENT:**  
(S)-Methoprene (CAS #65733-16-6)..... 33.6%  
**OTHER INGREDIENTS:** ..... 66.4%  
**TOTAL:** ..... 100.0%

EPA Reg No. 75318-6  
EPA Est. No. XXXXX-XX-XXX

B2E Biotech LLC  
3030 Noyac Road, Bldg. D-2  
Sag Harbor, NY 11963

NET CONTENTS: \_\_\_\_\_

**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>o Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>o Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.</li> <li>o Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin</b>	<ul style="list-style-type: none"> <li>o Take off contaminated clothing.</li> <li>o Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>o Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>o Call a poison control center or doctor for treatment advice</li> <li>o Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>o Do not give any liquid to the person.</li> <li>o Do not give anything by mouth to an unconscious person.</li> </ul>
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.	

**ENVIRONMENTAL HAZARDS**

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

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**Sublabel A: Control of insect pests in tobacco processing and storage facilities**

[Alternate Brand Names: Aquaprene EC, Ultraprene EC, Sciariprene]

**FOR PROTECTION OF STORED TOBACCO FROM DAMAGE BY CIGARETTE BEETLE (*LASIODERMA SERRICORNE*) AND TOBACCO MOTH (*EPHESTIA ELUTELLA*)**

**INTRODUCTION**

**B2E-01** is an emulsifiable concentrate formulation of the insect growth regulator, (S)-Methoprene. It is designed for use as a space spray in cold aerosol generators and in liquid concentrate form as an aqueous emulsified spray. Unlike traditional pesticides, (S)-Methoprene does not immediately kill immature insects; instead, it interferes with the normal insect development process and prevents adult pest emergence. **B2E-01**, prevents the adult emergence and reproduction of the Cigarette beetle (*Lasioderma serricornis*) and Tobacco moth (*Ephesia elutella*) when used according to label directions.

**DIRECTIONS FOR USE**

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

Do not apply directly to tobacco being processed. Do not use this product in or on electrical equipment due to the possibility of shock hazard.

**APPLICATION WITH COLD AEROSOL GENERATORS**

Apply **B2E-01** as a mist or aerosol. Dilute with water as required following the instructions of the spray equipment manufacturer. Apply **B2E-01** at the rate of 1 ml per 1000 square feet of surface area. Use spray equipment that will achieve uniform dispersal for best treatment results.

Close room or warehouse and shut off all ventilating systems. Apply the product as a fine mist in the air above the trays, shelves, and in areas where dust may accumulate. Leave the room closed for a minimum of 30 minutes (longer if possible) to allow the fine spray mist to settle. Do not remain in treated areas after treating. Ventilate treated areas before reentry. Repeat application as required.

**APPLICATION AS AN AQUEOUS SPRAY**

Prepare a diluted spray solution by adding 1 ml of **B2E-01** to 1 gallon of water. Apply at a rate of 1 gallon of diluted solution per 1000 square feet of surface area with any low pressure sprayer typically used for indoor applications. Treat all areas that may harbor insect pests. Repeat application as required.

**MIXING INSTRUCTIONS**

Partially fill clean application tank with water, add the specified amount of **B2E-01**, mix, and complete filling with quantity of water specified above. Use diluted spray solution within 72 hours of mixing. Agitate before each use.

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**Sublabel B: Prevent the emergence of adult Sciarid flies in mushroom culture**

**[Alternate Brand Names: Aquaprene EC, Ultraprene EC, Sciariprene]**

**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.

<p><b>User Safety Recommendations:</b> Users should:</p> <ul style="list-style-type: none"> <li>• Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.</li> <li>• Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li> <li>• 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.</li> </ul>
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**INTRODUCTION**

S-Methoprene, the active ingredient in **B2E-01** insect growth regulator (IGR), is a chemical analog of a natural insect hormone. Unlike traditional pesticides, the presence of S-Methoprene does not result in immediate insect kill; it interferes with the normal process of insect development. **B2E-01** prevents the emergence of adult Sciarid flies from the mushroom growing medium. When used as directed, fly control is achieved without adverse effects on mycelium growth or mushroom yield. Pupae and adult flies present at the time of application will not be affected. If high adult fly populations are present, an initial use of a conventional adulticide will insure the best overall results. After treatment with **B2E-01**, larvae will continue to develop to the pupal stage where they will die. As **B2E-01** prevents adult fly emergence, adult fly populations will be reduced over time. As maximum control is achieved two weeks after treatment, control assessment should be made at this time for most accurate evaluation.

**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.

<p align="center"><b>AGRICULTURAL USE REQUIREMENTS</b></p> <p>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 to workers, 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</p>
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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.

### A. INCORPORATE AT TIME OF CASING

Apply B2E-01 at the rate of 5½ fluid ounces (fl oz) per 1,000 square feet (sq ft). Apply evenly and mechanically mix into casing material prior to the casing operation, or drench evenly onto the surface immediately after placement.

### B. INCORPORATE IN COMPOST AT TIME OF SPAWNING AND IN CASING WHEN CASING LAYER IS PLACED ON COMPOST

#### IN COMPOST

Apply B2E-01 at the rate of 5½ fl oz per 1,000 sq ft in adequate water for even distribution. Spray 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-01 at the rate of 2½ fl oz per 1,000 sq ft. Apply 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 those crops that have a spawn run longer than 15 days, a split application can be used.

#### FIRST APPLICATION, ON COMPOST

Apply B2E-01 12 to 13 days after spawning. Drench B2E-01 evenly on the surface at the rate of 2¾ fl. oz. per 1,000 sq ft in adequate water for even distribution.

#### SECOND APPLICATION, IN CASING

Apply B2E-01 at the rate of 2¾ fl. oz. per 1,000 sq ft. Apply 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 PRIOR TO FIRST BREAK OF MUSHROOMS

#### FIRST APPLICATION, IN CASING

Apply B2E-01 at the rate of 5½ fl. oz. per 1,000 sq. ft. in adequate water for even distribution and mechanically mix into the 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 SURFACE JUST PRIOR TO FIRST BREAK

Apply B2E-01 at the rate of 2¾ fl. oz. of per 1,000 sq. ft. in adequate water for even distribution as a surface drench prior to first break of mushrooms.

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## MIXING AND HANDLING INSTRUCTIONS

Partially fill clean application tank with water, add the specified amount of **B2E-01**, mix, and complete filling with water. Use diluted spray solution within 72 hours of mixing. Agitate before each use.

## EFFECT ON MUSHROOMS

*In most cases, treatment with B2E-01 has a beneficial effect on mushroom yield by reducing Sciariid fly larval damage. As mushroom production practices differ among growers, the user can conduct small plots treatments to verify that reduced crop yields will not occur under cultural conditions used.*

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**Sublabel C: Prevent the emergence of stored product insects**

[Alternate Brand Names: Aquaprene EC, Ultraprene EC, Sciariprene]

**AN INSECT GROWTH REGULATOR TO CONTROL STORED PRODUCT INSECTS IN STORED FOOD COMMODITIES, SUCH AS CEREAL GRAINS, GRAIN SORGHUM (MILO), CORN, POPCORN, BIRDSEED, PEANUTS, SUNFLOWER SEEDS & TO CONTROL INSECT PESTS IN SEEDS**

**INTRODUCTION**

(S)-Methoprene, the active ingredient in **B2E-01**, protects stored grains from damaging insects by interfering with the normal process of insect development. Unlike traditional pesticides, **B2E-01** is not an adulticide, but its residual activity prevents the development of larvae from developing into adults. **B2E-01**, when used according to the label directions, prevents regeneration of these and other insect pests: Almond Moth (*Ephesia cautella*), Indian Meal Moth (*Plodia interpunctella*), Cigarette Beetle (*Lasioderma serricorne*), Lesser Grain Beetle (*Rhyzopertha dominica*), Sawtooth Grain Beetle (*Oryzaephilus surinamensis*), Merchant Grain Beetle (*Oryzaephilus mercator*), Red Flour Beetle (*Tribolium castaneum*), and Confused Flour Beetle (*Tribolium confusum*). Treat existing insect populations with an adulticide before applying **B2E-01** for residual protection.

Apply **B2E-01** to any food commodity (including but not limited to: cereal grains, corn, sunflower, canola, popcorn, wheat, spices, sorghum, rice, cocoa, peanuts, oats, and millit) for control of insect larvae. Use **B2E-01** to treat pet food, animal feedstuffs, birdseed, and cotton hulls. **B2E-01** can be applied to seed stock. Treated commodities can be processed within 24 hours following application.

If stored grain insect populations exceed 2 insects per 1 kg sample during storage, fumigate to avoid grain damage from existing insects. Refer to Federal Grain Inspection Service regulations for stored grain for more information on sampling and insect thresholds.

**Stored Commodities:** For protection of stored food, grains, animal feed, seeds used for oil and seed stock against stored product insects - for optimum results, thoroughly clean and treat storage areas prior to storing commodities. Apply **B2E-01** to a top-dressing to stored products that have already been placed into bins or storage areas. For top-dressing applications, spray or fog the bin headspace paying particular attention to the top on the commodity mass, beams, ceilings, and rafters. Thorough coverage is essential. For surface treatments, apply 1 ml (1/30 oz.) of **B2E-01** per 1000 square feet; or for space spray, apply 3 ml (1/10 oz.) per 10,000 cubic feet in sufficient water to provide adequate coverage. Do not flood top-dress area.

**DIRECTIONS FOR USE**

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

**GENERAL DIRECTIONS FOR TREATMENT OF GRAIN BEING STORED:** Dilute **B2E-01** with water and apply to the moving grain stream as a uniform coarse spray. Final water dilution volume is 5 gallons of liquid per 1000 bushels of grain and 10 gallons of liquid per 1000 bushels of rice. Lower volumes of diluent can be used but, it is important to assure that the commodity mass is uniformly treated. Agitate water dilution during application.

A range of rates for different commodities is provided for flexibility during varying storage periods and conditions. For maximum residual, use higher rates; the lowest application rate offers shorter residual for commodities stored  $\leq$  6 months.

Apply **B2E-01** in solution in accordance with the general directions, to stored products at the following rates per 1,000 bushels:

	<u>fl oz</u>	<u>ml</u>	<u>fl oz</u>	<u>ml</u>	<u>fl oz</u>	<u>ml</u>
Wheat	14.0	420	7.0	210	1.75	52

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Corn	14.0	420	7.0	210	1.75	52
Sorghum (Milo)	14.0	420	7.0	210	1.75	52
Barley	12.0	360	6.0	180	1.50	45
Rice	12.0	360	6.0	180	1.50	45
Oats	8.0	240	4.0	120	1.0	30
Peanuts	8.0	240	4.0	120	1.0	30
Sunflowers	8.0	240	4.0	120	1.0	30

For information on rates for other commodities, contact your distributor.

### USE NOTES:

- o Apply **B2E-01** grain protectant only to grain of known treatment history.
- o Check spray equipment calibration regularly to insure proper application rates.
- o Partially fill clean application tank with water, add the specified amount of **B2E-01**, mix, and complete filling with specified quantity of water.
- o Use diluted spray solution within 72 hours of mixing. Agitate before each use.
- o Clean up extremely dusty sites prior to application.

Use **B2E-01** as a fogging concentrate or surface spray for the treatment of stored product pests and other insect pests infesting warehouses, silos, storage bins, or other stored commodity areas. Apply **B2E-01** in food processing, food service, food preparation, and food handling establishments including mills, bakeries, restaurants, taverns, industrial buildings, breweries, candy processing, pet food production, grocery stores, modes of transportation (rail cars, ships, and trucks), cereal processing and bottling facilities. Apply **B2E-01** to packaged, canned, and bottled foodstuffs, as well as boxes, liners, and pallets. For application of **B2E-01** as a fogging space spray, use the following directions.

#### APPLICATION WITH COLD AEROSOL GENERATORS

Apply **B2E-01** as a mist or aerosol. Dilute with water following the instructions of the spray equipment manufacturer. Apply **B2E-01** at the rate of 1 ml per 1000 square feet of surface area or 1 ml per 10 cu ft. Use spray equipment to achieve uniform treatment. Close room or warehouse and shut off all ventilating systems. Apply the product as a fine mist in the air above the trays, shelves, and in areas where dust may accumulate. Leave the room closed for 30 minutes to allow spray mist to settle. Do not remain in treated areas and ventilate before entry. Repeat application as required.

#### APPLICATION WITH AEROSOL GENERATORS

Apply **B2E-01** as a mist or aerosol. Dilute with water as required following the instructions of the spray equipment manufacturer. Apply **B2E-01** at the rate of 1 ml (1/30 oz) per 1000 square feet of surface area or 3 ml (1/10 oz.) per 10,000 cubic feet. Use appropriate spray equipment to achieve uniform coverage.

Close room or warehouse and shut off all ventilating systems. Apply the product as a fine mist in the air above the trays, shelves, and in areas where dust may accumulate. Leave room closed for 30 minutes to allow spray mist to settle. Do not remain in the treated areas and ventilate before re-entry. Repeat application as required.

#### APPLICATION AS AN AQUEOUS SPRAY

To prepare a diluted spray solution, partially fill the mixing container with water, add 1 ml (1/30 oz) of **B2E-01**, mix and complete filling with a total of 1 gallon of water. Apply at a rate of 1 gallon of diluted solution per 1000 square feet of surface area with a low pressure sprayer typically used for indoor applications. Treat all areas which may harbor insect pests. Use diluted spray solution within 72 hours of mixing. Agitate before each use. Repeat application as required.

When tank mixing **B2E-01** with conventional aqueous adulticides, the more stringent label will apply.



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**Sublabel D: Prevent the emergence of adult filter flies & non-biting midges**

[Alternate Brand Names: Aquaprene EC, Ultraprene EC, Sciariprene]

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

**INTRODUCTION**

B2E-01 is a unique emulsifiable concentrate formulation that controls filter flies (*Psychodidae*) and non-biting midges (*Chironomidae*) in waste water treatment facilities. B2E-01 contains an insect growth regulator (IGR) that effectively controls the last stage of these insect pests. B2E-01 does not control adults but prevents the larval stage from developing into flying adults. B2E-01 keeps pest infestations under control by stopping the reproduction cycle, without shutting down your treatment facility. Regular use of B2E-01 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-01 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 non-biting midges and filter flies are a problem.

**WHAT TO EXPECT IN CONTINUOUS FLOW WASTE WATER TREATMENT FACILITIES**

To achieve effective results, B2E-01 must be applied to continuous flow systems on a daily basis for 10 days. 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-01 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-01 is to prevent adult emergence, pupa and adults 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.

**SLUDGE OR SOLID WASTE APPLICATIONS**

For sludge solid waste applications, use 3 ounces per million gallons of sludge or solids. Apply dilution until the drying beds have been filled, then stop the application. Make applications at the influent side as the sludge or solids enter into the drying beds. Application of B2E-01 to solids will prevent pest insect emergence and keep infestations under control.

**APPLICATION METHODS**

**WASTE WATER TREATMENT FACILITIES**

Dilute B2E-01 with water prior to use. Apply B2E-01 by use of 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 product dilution. Prepare the desired volume of dilution to apply over a 6-8 hour period, or in cases of sludge drying beds, apply until the beds have been filled. When using delivery devices, it is important to calibrate the device to deliver the required amount of B2E-01 over a 6-8 hour period.

**APPLICATION RATES**

**WASTE WATER TREATMENT PESTS**

To control waste water pests, apply 3 ounces of B2E-01 per 1 million gallons of sewage (waste water) in sufficient water to uniformly apply at the influent side over a 6-8 hour period during the lowest flow period of the day. For best results, make the application on a daily basis for 10 days or until suppression of pests is achieved.

**APPLICATION TO WASTE WATER – TRICKLING FILTER**

Apply 3 ounces of B2E-01 per 1 million gallons of sewage (waste water) in sufficient water to uniformly apply the material. Apply at times of low flow periods (typically evening through early morning hours) for 6-8

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hours. Discontinue treatment during peak flow periods and repeat applications the following day during the low flow period. Continue this application method for 10 days or until suppression of pests is achieved.

**MIXING AND HANDLING INSTRUCTIONS:**

Partially fill clean application tank with water, add the specified amount of **B2E-01**, mix, and complete filling with water. Use diluted spray solution within 72 hours of mixing. Agitate before each use.

**APPLICATION SITES**

**WASTE WATER TREATMENT FACILITIES**

Make applications of **B2E-01** 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-01** applications as the sewage enters (influent areas) the waste water treatment area. For best results, apply to the influent side.

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**Sublabel E: Prevent the emergence of adult floodwater mosquitoes**

[Alternate Brand Names: Aquaprene EC, Ultraprene EC, Sciariprene]

**PREVENTS EMERGENCE OF ADULT FLOODWATER MOSQUITOES**

**INTRODUCTION**

B2E-01 provides effective levels of S-Methoprene insect growth regulator to prevent the emergence of adult floodwater mosquitoes from treated water. B2E-01 can be applied either diluted in water or used to make granules. Treated larvae continue to develop normally to the pupal stage where they die. B2E-01 prevents the emergence of adult floodwater mosquitoes (*Aedes*, *Ochlerotatus* and *Psorophora*) from treated water.

**DIRECTIONS FOR USE**

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

For use by mosquito abatement districts.

**APPLICATION DIRECTIONS**

Apply B2E-01 to 4th instar floodwater mosquito larvae prior to pupation to prevent adult emergence. Apply B2E-01 in the late afternoon or evening to extend the effective control window. Proper treatment timing is important for best results. Using conventional liquid application equipment, apply the amount of B2E-01 listed below in sufficient water to give complete coverage. Do not apply when weather conditions will cause drift from the areas to be treated. Do not reapply product for 7 days. Use B2E-01 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**

Apply 0.5 ounce to 1.0 ounces (15 to 30 ml) of B2E-01 per acre in water. Application of B2E-01 to sites subject to water flow or exchange will diminish the product's effectiveness.

**MIXING AND HANDLING INSTRUCTIONS**

Partially fill clean application tank with water, add the specified amount of B2E-01, mix, and complete filling with water. Use diluted spray solution within 72 hours of mixing. Agitate before each use.

**APPLICATION SITES**

Apply B2E-01 as directed above to floodwater habitats which support mosquito larval development. Examples of typical sites are: freshwater and salt water 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, and other natural and manmade depressions where mosquitoes may breed. In dense vegetation or canopy areas, use B2E-01 to make granules on sand or other carrier following preparation instructions detailed below. Apply B2E-01 Granules using standard granular dispersal equipment.

**B2E-01 GRANULES:**

Granules can be made using washed, dry sand or other carriers. Apply B2E-01 to the granule quantity to be applied per acre. For example, to apply 1.0 fl. oz./acre dosage rate on 5 pounds of granules per acre: Add 98 pounds of washed dry sand into a small rotary cement mixer. Tilt mixer to an angle 20° above horizontal. Measure out 20 fl. oz. of B2E-01, and add to a sprayer equipped with a flat fan nozzle. Pressurize sprayer and turn on mixer. Spray B2E-01 on the rolling face of the sand until it is evenly dampened. Mix for 2 minutes, then add a drying agent (Microcel E or Hisil 233) as needed, to achieve a dry, free flowing granule. Discharge granules and bag. Apply within 72 hours.

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Dosage Rate Oz./Acre	Granule Application Rate/Acre (Lbs.)	Ounces of B2E-01 to 99# of washed sand
0.5	2.5	20
0.5	5.0	10
0.5	10.0	5
0.75	2.5	30
0.75	5.0	15
0.75	10.0	7.5
1.0	2.5	40
1.0	5.0	20
1.0	10.0	10

**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**  
Triple rinse or equivalent, then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Do not reuse container.

**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)