

US ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDES PROGRAMS  
REGISTRATION DIVISION (TS-767)  
WASHINGTON, DC 20460

PM 13 55638-10  
EPA REGISTRATION NO.

55638-10

DATE OF ISSUANCE  
MAY 08 1992

TERM OF ISSUANCE

NOTICE OF PESTICIDE:  REGISTRATION  
 REREGISTRATION

(Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT

Foil OF

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Ecogen, Inc.  
2005 Cabot Boulevard West  
Langhorne, PA 19047-1810

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. 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.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this 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 unconditionally registered in accordance with FIFRA section 3(c)(5). Once a pesticide is unconditionally registered, however, it is not regarded as permanently acceptable. Unconditional registration does not eliminate the need for continual reassessment of a pesticide. If EPA determines, at any time, that additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under Section 3(c)(2)(B) of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA).

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

CC: Owen Beeder, RSB/RD

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

5/7/92

# FOIL<sup>®</sup>

BIOINSECTICIDE

283

ACCEPTED  
with COMMENTS  
in EPA Letter 10/12/91

MAY 08 1992

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

55638-10

## OIL FLOWABLE BIOINSECTICIDE

### Active Ingredient:

Bacillus thuringiensis subspecies  
kurstaki strain EG2424

Lepidopteran active toxin.....	5.25%
Coleopteran active toxin.....	2.25%
Inert Ingredients.....	92.50%
TOTAL.....	100.00%

0.50 lbs. active ingredient per gallon

FOIL<sup>®</sup> bioinsecticide is a biological insecticide for the control of lepidopteran and coleopteran pests.

### KEEP OUT OF REACH OF CHILDREN

## WARNING

#### Statement of Practical Treatment

If Swallowed: Drink promptly a large quantity of milk, egg whites, gelatin solution or, if these are not available, drink large quantities of water. Avoid alcohol. Get medical attention.

If On Skin: Wash with plenty of soap and water. Get medical attention.

If In Eyes: Flush with plenty of water. Call a physician.

## AVISO

#### PRECAUCION AL USUARIO:

Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

Causes substantial but temporary eye injury. Causes skin irritation. Harmful if inhaled. Harmful if absorbed through skin. Do not get in eyes, on skin, or clothing. Wear goggles, face shield, or safety glasses. Avoid breathing dust (vapor or spray mist). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

#### ENVIRONMENTAL HAZARDS

Do not contaminate water when disposing of equipment washwaters.

EPA Reg. No. 55638-10  
EPA Est. No. 769-GA-1  
Net Contents: 2.5 U.S. Gallons

### REENTRY STATEMENT

Do not apply this product in such a manner as to directly, or through drift, expose workers or other persons. The area being treated must be vacated by unprotected persons.

Do not enter treated areas without protective clothing until sprays have dried.

Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: "WARNING. Area treated with FOIL<sup>®</sup> on (date of application). Do not enter without protective clothing."

### STORAGE AND DISPOSAL

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

#### Storage

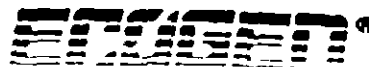
Store in a cool, dry place inaccessible to children.

#### Pesticide Disposal

Do not contaminate water when disposing of equipment washwaters. Wastes resulting from the use of 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 incinerate, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.



EcoGen Inc.  
2005 Cabot Blvd. West, Langhorne, PA 19047-1810  
215/757-1590

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

**Preharvest Interval:** There are no restrictions for applying **FOIL**® up to and on the day of harvest.

**Mode of Action:** After consuming a lethal dose of **FOIL** larvae will cease to feed, but may remain alive on foliage for several days before dying. Immediately after ingestion of **FOIL** larvae begin to move slowly, become discolored, shrivel and blacken prior to death.

#### MIXING INSTRUCTIONS

**FOIL** may be applied with conventional ground or aerial equipment with quantities of water sufficient to provide thorough coverage of infested plants. Do not apply this product through any type of irrigation system. To obtain a suitable mixture with water, fill the mix tank or plane hopper with the desired quantity of water. Mechanical or hydraulic agitation may be used to provide moderate circulation. For best results, shake container well, empty 1/2 of contents, reshake, do not add water to container until completely empty.

If a sticker is to be included, add after the addition of **FOIL**. **FOIL** should be mixed well and never added before introducing water into the tank. Maintain suspension while loading and spraying. Do not mix more **FOIL** than can be used in a 24-hour period. Rinse and flush spray equipment thoroughly following each use. Dispose of rinsate as described in the Storage and Disposal section of this label.

#### APPLICATION INSTRUCTIONS

**FOIL**® bioinsecticide is a highly selective insecticide for use against the lepidopteran and coleopteran larvae listed in the APPLICATION RATE table. Larvae must consume deposits of **FOIL** to be affected. Always follow these directions:

- Careful scouting and early attention to infestations are essential to good control.
- Treat for European corn borer when peak moth activity and egg-laying is occurring.
- Treat when larvae are young (early instars) and are actively feeding on foliage.
- Apply before extensive foliar damage has occurred.
- Thorough spray coverage is essential to good insect control.
- When insect infestations are heavy, use the higher label rates, shorten the spray interval and/or use larger total spray volume to improve spray coverage.
- Spray water/spray tank solutions should not exceed pH 8.0. If necessary, buffer water to near neutral pH (7.0).

#### HAND HELD EQUIPMENT

When using hand held equipment, mix 6 teaspoons per gallon of water or 3 quarts per 100 gallons of spray solution. Spray to wet, but not to runoff.

#### TANK MIX

**FOIL** may be tank mixed with contact pesticides. Combinations with commonly used insecticides, fungicides, or other spray tank adjuvants are generally not deleterious to performance (see PRECAUTIONS). It is advisable to test physical compatibility by mixing all components in small containers in proportionate quantities prior to mixing in spray tank. This product cannot be mixed with any product containing a label prohibition against such mixing. No label dosage rate should be exceeded.

Application must be made in accordance with the more restrictive of label limitation and precautions.

- For ground applications, use at least 20 gallons of water per acre. For aerial applications, use at least 5 gallons of water per acre.

#### PRECAUTIONS

- Do not use **FOIL** in combination with Bravo®.
- Use caution when mixing **FOIL** with other oil based products or surfactants as such combinations could increase the risk of phytotoxicity. If unsure test on a small area first.
- If any phytotoxicity occurs, discontinue use immediately.

#### APPLICATION RATE

Crop	Pest	Quarts/Acre <sup>1</sup>
Potatoes Tomatoes Eggplant	Colorado potato beetle <sup>2</sup>  European corn borer <sup>3</sup>  armyworms and loopers <sup>4</sup>	2 to 4

<sup>1</sup>For ground applications, use a minimum of 20 gallons of water per acre. For aerial applications, use a minimum of 5 gallons of water per acre.

<sup>2</sup>Timing: Initial application should be made when 30% of observed egg masses have hatched. Repeat application at an interval sufficient to maintain control, usually 5-7 days depending upon plant growth, insect activity and weather conditions after spraying.

<sup>3</sup>Timing: Initial application should be made at peak moth activity. Subsequent sprays should be applied weekly as needed.

<sup>4</sup>Timing: Treat when larvae are young (early instars) and are actively feeding on exposed plant parts. Apply before extensive foliar damage has occurred.

#### Warranty and Conditions of Sale

Ecogen warrants that this product conforms to the description on this label and is reasonably fit for the purposes stated on this label when used in accordance with the directions on this label under normal conditions of use.

**ECOGEN MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

If this product is defective, Buyer's exclusive remedy shall be the replacement of the product, or if replacement is impracticable, refund of the purchase price. In no case will Ecogen be liable for incidental, consequential or special damages resulting from the handling, storage or use of this product.

**FOIL** is a registered trademark of Ecogen Inc.

U.S. Patent No. 5,024,837 - Vers. 2792 - © 1992 Ecogen Inc.