

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 2-28-95



United States
Environmental Protection Agency
Washington, DC 20460

Registration
 Amendment
 Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 70051-82	2. EPA Product Manager Phil Hutton	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Raven Oil Flowable Bioinsecticide	PM#	
5. Name and Address of Applicant (Include ZIP Code) Certis USA, L.L.C. 9145 Guilford Road, Suite 175 Columbia, MD 21046 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

New establishment number on label.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt No. per container

3. Location of Net Contents Information
 Label Container

4. Size(s) Retail Container

5. Location of Label Directions

6. Manner in Which Label is Affixed to Product
 Lithograph Paper glued Stenciled Other _____

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Christine A. Dively	Title Director of Regulatory Affairs	Telephone No. (Include Area Code) 301-483-3806
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Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received (Stamped)

2. Signature <i>Christine A. Dively</i>	3. Title Director of Regulatory Affairs
4. Typed Name Christine A. Dively	5. Date April 9, 2003

CERTIS

Certis USA
9145 Guilford Road
Suite 175
Columbia, MD 21046
(301) 604-7340
FAX (301) 604-7015
www.certisusa.com

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April 14, 2003

Mr. Alan Reynolds
Biopesticides & Pollution Prevention Division (7511C)
Office of Pesticide Programs
1921 Jefferson Davis Hwy.
Crystal Mall 2 Building
Arlington, VA 22202

RE: New Establishment Number and Updated First Aid Statements

Dear Mr. Reynolds:

Certis USA L.L.C. (EPA Company No. 70051) is respectfully submitting the enclosed EPA Forms 8570-1. The purpose for these notifications is to change the establishment number on the following labels:

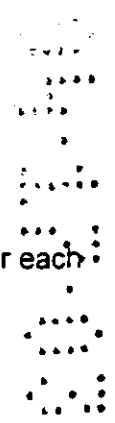
- Raven Oil Flowable, EPA Reg. #70051-82 ✓
- Lepinox G, EPA Reg. #70051-88 ✓
- Cutlass Wetttable Powder, EPA Reg. #70051-79 ✓
- Condor XL, EPA Reg. #70051-85 ✓
- Condor WP, EPA Reg. #70051-80 ✓
- Condor Bioinsecticide, EPA Reg. #70051-78 ✓
- Crymax WP, EPA Reg. #70051-90

These products were all formerly owned by Ecogen, Inc. and it has just recently come to our attention that the establishment number is incorrect. Therefore, we have corrected the establishment number on all of the enclosed labels. In addition, the following amendments are included to both update the First Aid Statement in accordance with PR Notice 2001-1, and change the establishment number.

- Lepinox WDG, EPA Reg. #70051-89
- Crymax Bioinsecticide, EPA Reg. #70051-86

Enclosed you will find:

- 1) Two copies of the Application for Pesticide Notification (EPA Form 8570-1) for each product submitted.
- 2) Two copies of each label for notification.
- 3) Five copies of each label for amendment.



Raven™

NOTIFICATION

BIOLOGICAL INSECTICIDE

Reviewed: 6-13-03

Reviewed By: T. Taylor

Raven™ oil flowable bioinsecticide is a biological insecticide for the control of Colorado potato beetle.

ACTIVE INGREDIENT:

Bacillus thuringiensis, subspecies *kurstaki* strain EG7673 solids,
 spores, Lepidopteran active toxins¹ and Coleopteran active toxins.....25.00%
 OTHER INGREDIENTS:75.00%
 TOTAL.....100.0%

The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

¹Not sufficient to provide commercial levels of lepidopteran control. The lepidopteran active toxin appears to act in synergy with the coleopteran toxin for CPB control.

**Net Contents:
2.5 U.S. Gallons**

EPA Reg. No. 70051-82
EPA Est. No. 62171-MS-001

Manufactured by
Certis USA
9145 Guilford Road
Suite 175
Columbia, MD 21046



**KEEP OUT OF REACH OF CHILDREN
CAUTION**

FIRST AID

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

If in eyes: Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.

If swallowed: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything to an unconscious person.

Call Poison control center or doctor for treatment advice.
 HotLine Number: 1-800-255-3924

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.

Do not contaminate water when disposing of equipment washwaters.

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.

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.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling.

Personal Protective Equipment (PPE):

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Mixers/loaders and applicators 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.

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 section only apply to uses of 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.

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
- Waterproof gloves
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests nurseries, or greenhouses.

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

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

Mode of Action: After consuming a lethal dose of RAVEN, susceptible larvae and adult beetles will cease to feed, but may remain alive on foliage for several days before dying.

MIXING INSTRUCTIONS

RAVEN may be applied with conventional ground, aerial or hand-held equipment with quantities of water sufficient to provide thorough coverage of infested plants. 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 and reshake and empty remainder. Do not add water to container until completely empty.

If a sticker approved for use on growing crops is to be included, add after the addition of RAVEN. RAVEN should be mixed well and never added before introducing water into the tank. Maintain suspension while loading and spraying. Do not mix more RAVEN 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

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

RAVEN is a biological insecticide for use against the coleopteran insects listed in the APPLICATION RATE TABLE. Larvae and beetles must consume deposits of RAVEN to be affected. Always follow these directions:

- Careful scouting and early attention to infestations are essential to good control.
- 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 for 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).
- For ground applications, use a spray volume of at least 20 gallons of water per acre. For aerial applications, use a spray volume of at least 5 gallons of water per acre.

APPLICATION RATE TABLE

¹For ground applications, use a minimum spray volume of 20 gallons of water per acre. For aerial applications, use a minimum spray volume of 5 gallons of water per acre.

Crop	Pest	Quarts/Acre ¹
Potatoes Tomatoes Eggplant	Colorado potato beetle ²	0.5 to 3
Soybeans Beans (lima, green, snap, etc.)	Mexican bean beetle ²	2 to 3
Forest Shade trees Nursery trees Poplar	Elm leaf beetle Imported willow leaf beetle Cottonwood leaf beetle	2 to 3

²Timing: 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.

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.

PRECAUTIONS

- Do not use RAVEN in a tank-mix combination with any chlorothalonil based fungicide (e.g. Bravo®, Echo®, Evade®, Terranil®, etc.)
- Use caution when mixing RAVEN 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.
- 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 limitations and precautions.

CHEMIGATION

Apply this product only through center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set or hand move sprinkler systems. **Do not apply this product through any other type of irrigation system.** Crop injury or lack of effectiveness can result from nonuniform distribution of treated water.

If you have questions about calibration, contact your State Extension Service Specialist, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water supply unless the pesticide label prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make the necessary adjustments should the need arise.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS:

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone (RPZ), backflow preventer or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

SPRINKLER CHEMIGATION:

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

The active ingredient in RAVEN will settle in the tank and injection lines; adequate agitation must be provided before and during the injection period. Use only in systems that apply uniformly and have appropriate check valves. When application is complete, thoroughly flush the injection system and sprinkler lines.

MIXING RECOMMENDATIONS FOR CHEMIGATION:

Follow general MIXING INSTRUCTIONS and keep the ratio at three parts water to one part RAVEN. Also, provide mild uniform agitation throughout the solution but do not agitate excessively.

For undiluted injection for chemigation: flush and clean nurse tank, lines, screen canister and pump with a nonemulsifiable oil approved for use on growing crops until they are water free before and after application. Use a 25-mesh screen. Continue agitation during injection.

SPRAY VOLUME:

For chemigation, use irrigation levels of 0.15 to 0.5 inches of water per acre. Up to 1 inch of irrigation water may be used, but efficacy may be reduced. The product should be applied continuously for the duration of the water application.

WARRANTY

Certis USA, L.L.C. warrants that the material contained herein conforms to the description on the label and is reasonably fit for the purposes referred to in the directions for use. Timing and method of application, weather, watering practices, nature of soil, the insect problem, condition of the crop, incompatibility with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herein. **NO OTHER EXPRESS OR IMPLIED WARRANTY OF THE FITNESS OR MERCHANTABILITY IS MADE.**

Raven is a trademark of Certis USA, L.L.C.
Bravo, Echo, Evade and Terranil are trademarks of companies other than Certis USA.
U.S. Patent Nos. 5024837, 4797279, 5187091, 5382429, 5441884, 5650308, 5843744
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