

P/M 92

55638-43

10/29/99

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division
(7511C) 401 M St., S.W.
Washington, D.C. 20460

EPA Reg. Number:

55638-43

Date of Issuance:

OCT 29 1999

NOTICE OF PESTICIDE:

[x] Registration
Reregistration

(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Condor WDG

Name and Address of Registrant (include ZIP Code):

Ecogen, Inc.
2005 Cabot Boulevard West
P.O. Box 3023
Langhorne, PA 19047-3023

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.

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.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that 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; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
(2) Add the phrase "EPA Reg. No. 55638-43" to the product label.
(3) Submit five (5) copies of your final printed labeling before release of the product for shipment.

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

Signature of Approving Official:

[Handwritten Signature]

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

Date:

10/29/99

EPA Form 8570-6

CONCURRENCES

Table with columns for SYMBOL, SURNAME, and DATE. Includes handwritten entries: 7511C, Reynolds, 10/27/99; 7511G, [unclear], 10/27/99.

CONDOR[®] WDG

BIOINSECTICIDE

ACCEPTED
OCT 29 1999
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 55638-43

Condor[®] WDG bioinsecticide is a biological insecticide for the control of lepidopteran pests.

Active Ingredient:

Bacillus thuringiensis EG234840.0%
Other Ingredients 60.0%

TOTAL 100.0%

6.4 oz. active ingredient per pound.

Potency: 32,000 International Units per milligram of product or 14.5 billion International Units per pound of product.

Contains toxins from subsp. *kurstaki*.

Percentage active ingredient, including potency unit measurements, should not be used to adjust use rates beyond those specified in the DIRECTIONS FOR USE section.

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

If Inhaled: Remove to fresh air. Get medical attention.

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

If On Skin: Wash with soap and water. Get medical attention if irritation persists.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if inhaled. Avoid breathing dust or spray mist. Harmful if swallowed. Causes eye irritation. Avoid contact with skin, eyes or clothing. In case of contact, wash thoroughly with soap and water after handling.

Personal Protective Equipment (PPE):

Applicators and other handlers must wear:

- Long sleeved shirt and long pants
- Shoes plus socks

As a general precaution when exposed to potentially high concentrations of living microbial products such as this, all mixer/loaders and applicators not in enclosed cabs or aircraft must wear a dust/filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95.

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.

EPA REG. No. 55638-43
EPA Est. No. 067367-MN-001
Net Contents: 5 U.S. Pound Bag

User Safety Recommendations

User should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

Do not contaminate water when disposing of equipment washwaters. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

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: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill, or by incineration, 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.

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 intervals. 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.



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Langhorne, PA 19047-3023
215/757-1590 or 800/220-2135
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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: CONDOR WDG may be applied to the crops listed in the APPLICATION RATE TABLE at any time, up to and on the day of harvest.

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

MIXING INSTRUCTIONS

CONDOR WDG may be applied with conventional ground, aerial or hand held application 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, add enough water to allow maximum agitation. With agitator running, slowly add in the CONDOR WDG. Continue agitation. Add remainder of water and other spray materials and agitate until mixed. Maintain suspension while loading and spraying. Do not mix more CONDOR WDG than can be used in a 12-hour period. Rinse and flush spray equipment thoroughly following each use. Do not contaminate water when disposing of equipment washwaters.

In order to make proper decisions on application rates to be used, follow the recommendations in the **APPLICATION RATE TABLE** and these guidelines:

APPLICATION GUIDELINES

Pest Category	Pest Pressure (number of larvae/plant)			
	Low ¹ (<0.3)	Moderate ² (0.3-1.0)	High ³ (1.0-5.0)	Extreme ⁴ (>5.0)
	Pounds of Product to be Applied per Acre			
Category 1	1.5	2.0	2.0	2.0
Category 2	1.0	1.5	2.0	2.0
Category 3	0.5	1.0	1.5	2.0

¹ Recommended spray interval of 7-10 days.

² Recommended spray interval of 6-8 days.

³ Recommended spray interval of 4-6 days.

⁴ Recommended spray interval of 3-5 days.

Category 1 Pests include: artichoke plume moth, navel orangeworm, oriental fruit moth, tomato fruitworm (also called bollworm and corn earworm), tufted apple budmoth.

Category 2 Pests include: Amorbis, armyworms, cabbage looper, citrus cutworm, diamondback moth, leafrollers, melonworm, peach twig borer, pickleworm, soybean looper, tomato pinworm, tobacco budworm and tortrix moth.

Category 3 Pests include: all caterpillar pests shown in the APPLICATION RATE TABLE, except those shown in Categories 1 and 2.

For crops such as Fruits, Nuts and Vines, applications are often timed to stage of development and recommendations from local Extension personnel should always be followed.

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.

CONDOR WDG is a selective insecticide for use against the lepidopteran larvae listed in the APPLICATION RATE TABLE. Larvae must consume deposits of CONDOR WDG to be affected. Always follow these directions:

- Make applications when larvae are still small (early instars) and actively feeding on foliage or other plant parts.
- Make applications before noticeable foliar damage occurs.
- Thorough spray coverage is essential for good insect control. For ground applications, directed drop nozzles should be used for certain vegetable crops.
- 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 (see APPLICATION GUIDELINES for selection of rates and intervals).
- Applications should be repeated at an interval sufficient to maintain control, depending upon plant growth, insect pressure and weather conditions after spraying. (Refer to APPLICATION GUIDELINES)
- For ground applications, use a minimum spray volume of 5 gallons per acre. For aerial applications, use a minimum spray volume of 2 gallons per acre.
- Local conditions may affect the use of CONDOR WDG. Consult your State Agricultural Extension Specialist for specific recommendations related to local crop protection problems.
- Spray water/spray tank solutions should not exceed pH 8.0. If necessary, buffer water to near neutral pH.

HAND HELD EQUIPMENT

When using hand held equipment, mix 3 teaspoons per gallon of water or 1 1/2 pounds per 100 gallons of spray solution. Spray to wet, but not to runoff.

TANK MIX

Combinations of CONDOR WDG with commonly used insecticides, fungicides, or other spray tank adjuvants are generally not deleterious to performance. It is advisable to test physical compatibility by mixing all components in a small container 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 improved durability of spray deposits, an approved spreader/sticker is strongly recommended for hard-to-wet crops such as cole crops.

APPLICATION RATE TABLE

I. VEGETABLES & COLE CROPS (Fresh and Processed)

Crop such as:		Insect Pest
Artichokes	Napa	Armyworms
Arugala	Okra	Artichoke plume moth
Asparagus	Onions	Beet armyworm
Beans	Parsley	Cabbage budworm
Beets	Parsnips	Cabbage looper
Bok Choy	Peas	Cabbage webworm
Broccoli	Peppers	Celery leaf-tier
Brussels sprouts	Potatoes	Corn earworm
Cabbage	Pumpkins	Cross-striped cabbageworm
Cardoni	Radishes	Diamondback moth
Carrots	Rutabaga	European corn borer
Cauliflower	Salsify	Green cloverworm
Celeriac	Shallots	Imported cabbageworm
Celery	Soybean foliage	Melonworm
Chick peas	Spinach	Omnivorous leafroller
Chicory	Squash	Pickleworm
Chinese cabbage	Sugar beets	Rindworm complex
Collards	Sweet potatoes	Saltmarsh caterpillar
Cucumber	Swiss chard	Soybean looper
Cucurbits	Tomatoes	Tobacco budworm
Dry bulb onions	Turnips	Tomato fruitworm
Eggplants	Watercress	Tomato hornworm
Escarole		Tomato pinworm
Endive		Velvetbean caterpillar
Garlic		Yellowstriped armyworm
Green onions		
Greens (Beets, China, Dandelion, Mustard, Turnip)		
Horseradish		
Kale		
Kohlrabi		
Leeks		
Lentils		
Lettuce (Head, Leaf, Romaine)		
Malanga		
Melons (Cantaloupe, Crenshaw, Honeydew, Muskmelon, Watermelon, etc.)		

Rate/Acre: 0.5 - 2.0 pounds

II. HERBS & SPICES

Crop such as:	Insect Pest
Basil	Armyworms
Chives	Diamondback moth
Cilantro	European corn borer
Dill	Green cloverworm
Oregano	Imported cabbageworm
Peppermint	Loopers
Thyme	Saltmarsh caterpillar

Rate/Acre: 0.5 - 2.0 pounds

III. PASTURE & HAY CROPS

Crop such as:	Insect Pest
Alfalfa (hay & seed)	Alfalfa caterpillar
Pasture (grasses & hay)	Armyworms*
Silage	Loopers*
	European skipper
	Webworm

Rate/Acre: 0.5 - 2.0 pounds

*Product should be applied when early instar larvae first appear. If infestation persists, make a second application 7-10 days later. Combination of CONDOR with a contact insecticide is recommended for control of 4th and 5th instar larvae.

IV. FRUIT, NUT & VINE CROPS

Crop such as:	Insect Pest	Rate/Acre		
Pome and Stone Fruit Trees: Apples Apricots Cherries Nectarines Peaches Pears Plums Prunes Quince	Cankerworm (Spring & Fall)	0.5 - 2.0 pounds		
	Eastern tent caterpillar			
	Fall webworm			
	Fruitree leafroller			
	Gypsy moth			
	Navel orangeworm			
	Omnivorous leafroller			
	Oriental fruit moth			
	Pandemis leafroller			
	Peach twig borer			
	Redbanded leafroller			
	Redhumped caterpillar			
	Tortrix moth (Orange and Garden)			
	Tufted apple budmoth			
	Variegated leafroller			
Walnut caterpillar				
Nut Trees: Almonds Chestnuts Filberts Pecans Walnuts	Citrus cutworm	0.5 - 2.0 pounds		
	Filbert leafroller			
	Filbert webworm			
	Navel orangeworm			
	Oblique banded leafroller			
Citrus	Peach twig borer	0.5 - 2.0 pounds		
	Roughskinned cutworm			
Citrus	Amorbia	0.5 - 2.0 pounds		
	Citrus cutworm			
Small Fruit and Berries: Blackberries Blueberries Cranberries Currants Raspberries Strawberries	Fruitree leafroller	0.5 - 2.0 pounds		
	Fruitree leafroller			
	Grape berry moth			
	Gypsy moth			
	Loopers			
	Oblique banded leafroller			
	Tobacco budworm			
	Grapes		Acherna sphinx moth	0.5 - 2.0 pounds
			Armyworms	
			Blueberry leafroller	
Fruitree leafroller				
Grape leaf folder				
Grapeleaf skeletonizer				
Green fruitworm				
Tropical and Other Fruit: Avocados	Omnivorous leafroller	0.5 - 2.0 pounds		
	Orange tortrix			
	Omnivorous looper			
	Spanworm			
Bananas	Banana skipper	0.5 - 2.0 pounds		
Kiwi	Omnivorous leafroller	0.5 - 2.0 pounds		
Persimmons Pomegranate	Citrus cutworm	0.5 - 2.0 pounds		
	Fall webworm			
	Filbert webworm			
	Omnivorous leafroller			
	Redhumped caterpillar			
Pineapple	Tent caterpillar	0.5 - 2.0 pounds		
	Gummosos-Batrachedra commosae			
	Thecla-Thecla basilides			
Tropical fruits	Hornworms	0.5 - 2.0 pounds		
	Leafrollers			
	Loopers			
	Omnivorous leafroller			

V. FIELD CROPS

Crop such as:	Insect Pest	Rate/Acre
Canola/Rape Seed Evening Primrose	Armyworms Diamondback moth Imported cabbageworm Loopers	0.5 - 2.0 pounds
Corn (Field, Sweet, Popcorn)	Armyworms European corn borer Southwestern corn borer	0.5 - 2.0 pounds
Cotton*	Beet armyworm Bollworm Cabbage looper Cotton leaf perforator Saltmarsh caterpillar Tobacco budworm	0.5 - 2.0 pounds
Hops	Armyworms Loopers Oblique banded leafroller Omnivorous leaftier Spotted cutworm	0.5 - 2.0 pounds
Jujube	Looper (<i>Anacamp- todes spp.</i>)	0.5 - 2.0 pounds
Peanuts	Green cloverworm Loopers Podworms Velvetbean caterpillar	0.5 - 2.0 pounds
Rice	Armyworms Green cloverworm Loopers Saltmarsh caterpillar Velvetbean caterpillar	0.5 - 2.0 pounds
Safflower	Armyworms Loopers Saltmarsh caterpillar	0.5 - 2.0 pounds
Small Grains (Barley, Oats, Rye, Wheat, etc.)	Armyworms Loopers	0.5 - 2.0 pounds
Sorghum	European corn borer Saltmarsh caterpillar Velvetbean caterpillar	0.5 - 2.0 pounds
Soybeans	Green cloverworm Soybean looper Velvetbean caterpillar	0.5 - 2.0 pounds
Sunflowers	Banded sunflower moth Beet armyworm Headmoth Loopers Sunflower moth	0.5 - 2.0 pounds
Tobacco	Tobacco budworm Tobacco hornworm Loopers	0.5 - 2.0 pounds

*Use CONDOR to control light to moderate populations of newly hatched worms in integrated pest management programs. Repeat treatments at four to five day intervals or as long as necessary until results are acceptable. For control of cotton bollworm and tobacco budworm, ovicides or synthetic pyrethroids can be combined with CONDOR in accordance with the more restrictive of label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

VI. COMMERCIAL FLOWERS & ORNAMENTAL PLANTS

Crop such as:	Insect Pest
Bedding plants Flowers Greenhouse Ornamentals Vegetables	Armyworms Azalea moth Diamondback moth Ello moth (hornworm) lo moth Loopers Oleander moth Omnivorous leafroller Omnivorous looper Tobacco budworm

Rate/Acre: 0.5 - 2.0 pounds

VII. FOREST, SHADE TREE & NURSERY STOCK

Crop such as:	Insect Pest
Forest Shade trees Nursery trees	Bagworm Blackheaded budworm Browntail moth California oakworm Cankerworm (Spring & Fall) Douglas fir tussock moth Elm spanworm Fall webworm Fruitree leafroller Greenstriped mapleworm Gypsy moth Jack pine budworm Mimosa webworm Pine butterfly Redhumped caterpillar Saddleback caterpillar Saddle prominent caterpillar Spruce budworm Tent caterpillar Tortrix Western tussock moth

Rate/Acre: 0.5 - 2.0 pounds

VIII. TURF

Crop such as:	Insect Pest
Turf	Armyworms Sod webworm Tropical sod webworm

Rate/Acre: 0.5 - 2.0 pounds

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.

Condor is a trademark of Ecogen Inc.
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