

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (75-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.
53037-3

DATE OF ISSUANCE

9/21/89

TERM OF ISSUANCE

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION

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

NAME OF PESTICIDE PRODUCT

PM 17
20028-4
10-10-11

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

130 | 277,256 | 131 | 247,263
38 | | 38 |

131 | 249,077
18 |

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 registration 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 registration is in effect for a period not to exceed September 30, 1991. During the period in which this registration is in effect, you must do the following:

1. Submit the data required by the Guidelines for the Conduct of Non-Ratification Studies conducted in accordance with the Good Laboratory Practice Standards (40 CFR Part 209) and the Guidelines for Labeling of Pesticides (40 CFR Part 201) and the Registration Requirements for Distribution (40 CFR Part 202) and the Guidelines for Distribution of Pesticides (40 CFR Part 203) and the Guidelines for Distribution of Pesticides (40 CFR Part 204).

2. 100% Worker Safety

3. 100% Worker Safety

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ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

See Page 2, 3, 4 & 5

DATE

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- 3) Although the plasmid profiles on file are acceptable, a statement should be made as to which plasmids encode a toxin.
- 4) Each crystalline endotoxin (inclusion) must be described in terms of morphology.

Although representatives of the insect orders Coleoptera,

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- 1) Although the test counts shall not be... of the... of the...
- 2) The toxins in Outclass OF and the manufacturing-use product (MP) must be analyzed such that insect order bioactivity can be determined eg., % (w:w) lepidopteran-active toxin(s) and/or % (w:w) coleopteran-active toxin(s). The ingredient statement of the end-use product (EP) label must reflect this as noted on page 22 of the December 1988 Registration Standard.

c. 151A-15 - Certification of Limits

- 1) Certified upper and lower limits for each group of endotoxins distinguished by insect order affected.
- 2) Validated methods to enforce such limits must be submitted.

d. 151A-16 - Physical and Chemical Properties

- o Storage stability data and beta-exotoxin formation after storage of EP and MP for 1 year. The analytical method used to determine endotoxin should be specified. Corrosion of containers, or lack thereof, should be noted. The beta-exotoxin should be sought, quantified, and the method of sensitivity stated.

e. 81-1 - Acute Oral Toxicity on the End-Use Product

f. 81-3 - Acute Inhalation on the End-Use Product

g. 151A-2, 151A-3, 151A-4, 151A-5, 151A-6, 151A-7, 151A-8, 151A-9, 151A-10, 151A-11, 151A-12, 151A-13, 151A-14

You agree in writing that the registration... from the Registration...

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

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... You must change the statement "Toxicity Category I for oral and inhalation exposure" to "Toxicity Category II for oral and inhalation exposure." You must change the statement "Toxicity Category II for dermal exposure" to "Toxicity Category III for dermal exposure." by obtaining Enforcement and Safety Administration (formerly the U.S. Bureau of Mines) and by the National Institute of Occupational Safety and Health under the provisions of 30CFR Part 15.

c. Delete the Beneficial Insects block and the associated text.

d. Add the appropriate Environmental Hazards statements to the label as directed in the Bacillus thuringiensis Registration Standard.

e. Add the following Statement of Practical Treatment to the front panel of the label.

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 On Skin: Wash with soap and water. Wash contaminated clothing separately from other laundry. Get medical attention if irritation persists.

If In Eyes: Flush eyes with plenty of water. Get medical attention if irritation persists.

f. Comply with the enclosed PR Notice 82-2 based on Toxicity Category I for oral and inhalation and Toxicity Category II for Dermal exposure. Also comply with PR Notice 82-1

g. Delete "Directions" and for the words "Use only on equipment..."

CONCURRENCES

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SURNAME							
DATE							

FD-5011

Change the registration information on this registration notice if you have any changes to the information provided in this registration notice. If you have any changes, you must submit a new registration notice to the Registration Support Branch, Environmental Protection Agency, 401 M Street SW, Washington, DC 20460.

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Registration Support Branch
Environmental Protection Agency
401 M Street SW
Washington, DC 20460

You should note that if you fail to satisfy any of the conditions imposed on this registration EPA may issue a Notice to Cancel this use under FIFRA section 6(e).

You should note that, regardless of whether you satisfy all applicable conditions, this conditional registration will expire automatically on September 20, 1990. Sale and distribution of the subject product after September 20, 1990 will be illegal.

4. Add the phrase "EPA Registration No. 55638-9" to the label before you release the product for shipment.
5. Comply with the Child Resistant Packaging Requirements of 40 CFR Part 157.
6. Simultaneous Reporting to the Office of Compliance Monitoring (OCM)

OCM will be monitoring the data being generated in response to this Registration Notice. Therefore, if you respond by:

- Committing to develop and/or submitting data;
- Requesting a minor chemical exemption;
- Presenting arguments that a requirement is not applicable;
- Submitting protocols or modifications to them; or
- Requesting extensions in the due date for submitting final reports.

CONCURRENCES							
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You must send a copy of the supporting information (not confidential information) to:

Mr. Phillip Hutton
Product Manager (17)
Insecticide Rodenticide Branch
Registration Division (H7505C)
Washington, DC 20460

For any, and all, inquiries regarding this registration, you should contact the Registration Division at Washington, DC 20460, or the nearest EPA office.

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

Sincerely,

Phillip Hutton
Product Manager (17)
Insecticide Rodenticide Branch,
Registration Division (H7505C)

Enclosure

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CONCURRENCES

SYMBOL							
SURNAME							
DATE							

70/11

CUTLASS™
Oil Flowable Bioinsecticide

Active Ingredient

Bacillus thuringiensis var. kurstaki Strain 2371
toxic protein..... 7.5%

Inert Ingredients..... 92.5%

Total.....100.0%

0.64 lbs active ingredient per gallon

Cutlass is a biological insecticide for the control of lepidopteran pests.

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

Hazards to Humans: Applicators, mixers, loaders, must wear a particulate mask and goggles. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

Beneficial Insects: Cutlass will neither harm honeybees foraging treated acres, nor interfere with beneficial arthropods in pest management programs.

EPA Reg. No. 55638
EPA Est. No. 55638-

Ecogen Incorporated
2005 Cabot Blvd West
Langhorne, PA 19047-1810

Net Contents
U. S. Gallons

10/11/11

58448-9

Storage and Disposal

Storage: Store in a cool, dry place. Tightly reclose containers of Cutlass for storage.

Disposal: Do not contaminate water when disposing of equipment wash waters

Container Disposal:

Plastic: 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.

Metal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Directions for Use

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 Cutlass up to the time of harvest.

Cutlass is a selective insecticide for use against the lepidopteran larvae listed below. Larvae must consume deposits of Cutlass to be affected. Always follow these directions:

- o Treat when larvae are young (early instars) and are actively feeding on exposed plant parts.
- o Apply before foliar damage has occurred.
- o Thorough spray coverage is essential to good insect control. Directed drop nozzles may be required for some crops.
- o 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.

- o Repeat applications at an interval sufficient to maintain control, usually 3-14 days depend on plant growth, moth activity, and weather conditions after spraying.
- o For improved durability of spray deposits, an approved spreader/sticker strongly recommended for hard-to-wet crops such as cole crops.
- o After consuming a lethal dose of Cutlass, larvae will cease feeding but may remain on the foliage until they die within several days. Dying larvae move slowly, discolor, then shrivel and blacken prior to death.
- o Local conditions may affect the use of Cutlass. Consult State Agricultural Extension Specialists for specific recommendations related to local crop protection problems.

Cutlass may be applied with conventional ground or aerial application 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. **Never add Cutlass before introducing the desired quantity of water.** If a sticker is to be included, add prior to the addition of Cutlass. Maintain suspension while loading and spraying. Do not mix more Cutlass than can be used in a 24-hour period. **CAUTION:** Rinse and flush spray equipment thoroughly following each use. Do not contaminate water when disposing of equipment wash waters.

Crop	Pest	Quarts/Acre
Alfalfa	Alfalfa caterpillar	1.0 to 2.0
Asparagus	Armyworms	
Beans	Beet armyworm	
Beets	Cabbage looper	
Bok Choy	Cabbage webworm	
Broccoli	Corn earworm	
Brussel sprouts	Cross-striped	
Cabbage	cabbageworm	
Cauliflower	Diamondback moth	
Celery	Fall Armyworm	
Collards	Imported cabbageworm	
Corn, field & sweet	Soybean looper	
Cucur bits	Tobacco budworm	
Dry beans	Tobacco hornworm	
Eggplant	Tomato fruitworm	
Horseradish	Tomato hornworm	
Kale	Tomato pinworm	
Lettuce	Velvetbean caterpillar	
Parsnips		
Peanuts		
Peas		
Peppers		
Potatoes		
Radish		
Soybeans		
Strawberries		
Sugarbeets		
Sweet potato		
Swiss chard		
Tobacco		
Tomatoes		
Turnips		
<hr/>		
Cotton	Armyworms, Cabbage looper	1.0 to 2.0

¹ For ground applications, use up to 100 gallons of water.
 For aerial applications, use up to 10 gallons of water.
 Cutlass should always be mixed with at least an equal volume
 of water.

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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.

Cutlass is a trademark of Ecogen Inc.
Patent Pending
Vers. 12/88 © Ecogen Inc. 1988