



U.S. ENVIRONMENTAL PROTECTION AGENCY
 Office of Pesticide Programs
 Registration Division (92505C)
 101 "M" St., S.W.
 Washington, D.C. 20460

EPA Reg. Number
 55638-16

Date of Issuance
 JUN 17 1994

Form of Issuance
 Conditional

NOTICE OF PESTICIDE:
 Registration
 Reregistration

Name of Pesticide Product:
 AQ-10 Biofungicide

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code)

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

Note: Changes in labeling 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 EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/re-registered 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. 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 conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. You will submit the data listed below, conducted in accordance with the 40 CFR Part 158 test guidelines referred to below:

Guideline Reference

Number	Title of Study	Date Due
154.24	Dietary Pathogenicity and Toxicity Study: Honey Bee	March 30, 1995

2. You will submit data to substantiate that the biochemical analysis of the active ingredient is adequate to ensure that no contamination of the product with other organisms occurs. These data must be submitted by March 30, 1995.
3. You will submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) or 4(a) when the Agency requires all registrants of similar products to submit such data.
4. You will submit production information (pounds or gallons produced) for this product for the fiscal year in which the uses are conditionally registered, in accordance with FIFRA section 29. The fiscal year begins October 1 and

Signature of Approving Official

Carl K. ... for Steve ...

Date

JUN 17 1994

20/85

ends September 30. The production information will be submitted to the Agency no later than November 15, following the end of the preceding fiscal year.

This information should be submitted to:

U.S. Environmental Protection Agency
Office of Pesticide Programs (7504C)
Document Processing Desk (RSB)
401 M Street, SW, CM#2
Washington, DC 20460

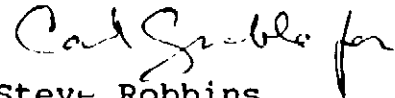
5. You will make the following labeling change before you release the product for shipment:
 - a. Add the phrase "EPA Registration No. 55638-16".
 - b. Based on the nature of the inert ingredients, a dust mask should be used when handling this product. Add "Dust/mist filtering respirator (NIOSH/MSHA approval number prefix TC-21C" to the list of Personal Protective Equipment (PPE).
 - c. The currently required restricted entry interval (REI) for WPS labeling is 12 hours. Revision of this requirement for biological and certain other pesticides is anticipated. Until such revisions in the requirements are finalized, the label must include an REI of 12 hours. Make the appropriate label change.
 - d. Add "Do not apply this product through any type of irrigation system" or include appropriate labeling statements required in PR Notice 87-1 if chemigation is intended.
6. The review of the product chemistry data stated that there was a possibility of addition of other inert ingredients such as "polysaccharide gums or gelatin". These substances may not be added to the product formulation unless a revised Confidential Statement of Formula is submitted.
7. Submit five copies of the final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec 6(e). Your

release for shipment of the product constitutes acceptance of these conditions.

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

Sincerely yours,



Steve Robbins
Acting Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosure

AQ-10 Biofungicide

Selective fungal hyperparasite for control of powdery mildew

Active ingredient:

Ampelomyces quisqualis isolate M-10 1.0%*

Inert ingredients: 99.0%

Total 100.0%

* Contains not less than 1.0×10^9 spores/g

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

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

PRECAUTIONARY STATEMENTS

Hazards To Humans And Domestic Animals

Precautionary Statement:

Avoid contact with eyes. In case of contact immediately flush eyes with plenty of water. Get medical attention if irritation persists.

Personal Protective Equipment (PPE):

Applicators and other handlers must wear:

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

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

For terrestrial uses, 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.

ACCEPTED
with COMMENTS
In EPA Letter Dated

JUN 17 1994

EPA REG. No. 55638 -

EPA EST. No. -----

Net Contents: 5 U.S. Pounds

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

55638-16

Storage:

Store in 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.

<p>AGRICULTURAL USE REQUIREMENTS</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, and emergency assistance. It also contains specific statements on this label about personal protective equipment (PPE). The requirements in this section only apply to uses of this product that are covered by the Worker Protection Standard.</p> <p>Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.</p> <p>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.</p>
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Preharvest Interval: AQ-10 can be applied up to and including the day of harvest.

Mode of Action: AQ-10 is a fungus that parasitizes powdery mildew. Following rehydration and application, AQ-10 spores germinate into the powdery mildew mycelia and parasitize it.

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Ecogen Inc.
2005 Cabot Blvd West, Langhorne, PA 19047
215/757-1590 • 800/220-2135

MIXING INSTRUCTIONS

AQ-10 should be thoroughly mixed with water. Fill the spray tank one-half full with water; add AQ-10 biofungicide to the tank, then finish filling the tank. The use of an approved surfactant up to 0.05 % volume/volume is recommended. Continuously agitate the tank mix to maintain suspension. AQ-10 should not be tank mixed with any other fungicide. Spray entire contents of mixture within the same day of mixing. AQ-10 can lose viability when left in water over 12 hours.

APPLICATION INSTRUCTIONS

- Initial applications should begin as soon as susceptible host tissue emerges.
- Foliage and/or fruit should be sprayed thoroughly with sufficient water carrier to ensure as complete coverage as possible.
- Applications should be repeated at an interval sufficient to maintain disease control, depending upon plant growth, disease pressure and weather conditions. Generally, this spray interval should not be less than 10 days apart.
- Applications should be done at a time selected to maximize the contact of AQ-10 with free water on the vegetation either from dew or water carrier. Optimal AQ-10 germination and parasitism occur under high humidity conditions.
- Apply only with ground equipment.

FOR USE TO CONTROL POWDERY MILDEW ON THE FOLLOWING FIELD AND GREENHOUSE CROPS

Apples
Cucurbits
Grapes
Ornamentals
Strawberries
Tomatoes

APPLICATION RATES

0.5 TO 1.0 lb/acre

The higher rate should be used as both vegetation and disease pressure increase.

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.

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U.S. Patent No. 5,190,754
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Vers. 2/94