

OCT 28 1994

Dr. David L. Olson
Ecogen, Inc.
2005 Cabot Boulevard West
Langhorne, PA 19047

Dear Dr. Olson:

Subject: AQ-10 Biofungicide
EPA Reg. No. 55638-16
AQ-10 Technical Powder
EPA Reg. No. 55638-17
Your Submissions of July 27, 1994

The amendments referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), are acceptable provided that you:

1. Submit/cite all data required for registration or reregistration of your products under FIFRA section 3(c)(5) or 4(a) when the Agency requires all registrants of similar products to submit such data.

2. Make the following label correction before you release the product for shipment: For EPA Reg. No. 55638-16, add "Dust/mist filtering respirator (NIOSH/MSHA approval number prefix TC-21C)" to the list of Personal Protective Equipment for applicators. The respirator will not be required for early entry.

3. Submit revised Confidential Statements of Formula for the products which include the acceptable level of viable spores to be found in the product and the anticipated range of spore numbers before release of the products for shipment.

4. Submit five (5) copies of your final printed labeling before you release the products for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the products bearing the amended labeling constitutes acceptance of these conditions.

Stamped copies of the labels and a copy of the submission review are enclosed for your records.

Sincerely yours,

/s/

Leonard S. Cole, Jr.
Acting Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosure

7505C:C.Grable:cg:10/26/94

AQ10™ Biofungicide

Active Ingredient:

Ampelomyces quisqualis isolate M-10 58.0%*

Inert ingredients: 42.0%

Total 100.0%

* Contains not less than 5.0 X 10⁹ viable spores/g

AQ10™ biofungicide is a selective fungal hyperparasite for control of powdery mildew.

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

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

PRECAUTIONARY STATEMENTS

Hazards To Humans And Domestic Animals

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.

Storage:

Store in cool, dry place inaccessible to children. AQ10 contains living spores and care should be taken to properly store the product. The product is best stored at or below room temperature. Do not store in extreme heat or cold.

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.

ACCEPTED
with COMMENTS
In EPA Letter Dated
OCT 28 1994
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended for the pesticide
registered: EPA Reg. No.
55638-16

EPA REG. No. 55638 -16
EPA EST. No. -----
Net Contents: 5 U.S. Pounds

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

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). The requirements in this section 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 12 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: AQ10 can be applied up to and including the day of harvest.

Mode of Action: AQ10 is a fungus that parasitizes powdery mildew. Following rehydration and application, AQ10 spores germinate into the powdery mildew mycelia and parasitize it.

MIXING INSTRUCTIONS

AQ10 should be thoroughly mixed with water. Fill the spray tank one-half full with water; add AQ10 to the tank, then finish filling the tank. The use of a non-ionic or oil-based surfactant up to 0.05 % volume/volume is recommended. Continuously agitate the tank mix to maintain suspension. Spray entire contents of mixture within the same day of

mixing. AQ10 can lose viability when left in water over 12 hours.

APPLICATION RATE

1/2 oz/Acre

APPLICATION INSTRUCTIONS

AQ10 may be an effective resistance management tool when used in an IPM spray program with sulfur and sterol inhibitors for control of powdery mildew. It is important to use AQ10 in at least two sequential sprays 7-14 days apart. These sequential applications give AQ10 the opportunity to build up sufficient populations for the most effective long term control.

Initial applications should begin as soon as susceptible host tissue (bud break) emerges. Foliage and/or fruit should be sprayed thoroughly with sufficient water carrier to ensure complete coverage.

Applications should be repeated at an interval sufficient to maintain disease control, depending upon plant growth, disease pressure and weather conditions.

Applications should be done at a time selected to maximize the contact of AQ10 with free water on the vegetation either from dew or water carrier. Optimal AQ10 germination and parasitism occur under high humidity conditions.

Apply only with ground equipment. Do not apply this product through any type of irrigation system.

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

- Apples
- Cucurbits
- Grapes
- Ornamentals
- Strawberries
- Tomatoes

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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.

AQ10 is a trademark of Ecogen Inc.
U.S. Patent No. 5,190,754
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