

86174-3

01/31/2012

1/13



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7511P)
1200 Pennsylvania Avenue NW
Washington, DC 20460

NOTICE OF PESTICIDE REGISTRATION

☒ Registration

☐ Reregistration

(under FIFRA, as amended)

EPA Reg.
Number:
86174-3

Date of Issuance:
January 31, 2012

Unconditional

Term of
Issuance:

Name of Pesticide Product:

Botector

Name and Address of Registrant (include ZIP Code):

bio-ferm GmbH
c/o SciReg, Inc.
12733 Director's Loop
Woodbridge, VA 22192

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. 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 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 or her 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 does not eliminate the need for continual reassessment of the pesticide. If EPA determines at any time, that additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under section 3(c)(2)(B) of FIFRA.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) and is subject to the following terms and conditions:

1. Revise the EPA Registration number on the label to read, "EPA Reg. No. **86174-3**."
2. Submit two (2) copies of the revised final printed labeling before you release the product for shipment

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

Signature of Approving Official:

W. Michael McDavit

W. Michael McDavit, Associate Director
Biopesticides and Pollution Prevention Division (7511P)

Date:

JAN 31 2012

EPA Form 8570-6

CONCURRENCES

SYMBOL	▶ 7511P	7511P						
SURNAME	▶ <i>Slouch</i>	<i>Pull</i>						
DATE	▶ 1-30-12	1/31/12						

EPA Form 1320-1A (1/90)

OFFICIAL FILE COPY

Master Label
Botector

Sub-label A: Agricultural/Commercial Use

Sub-label B: Residential Use

Active Ingredients:

Aureobasidium pullulans strain DSM 14940*..... 40%

Aureobasidium pullulans strain DSM 14941*..... 40%

Other Ingredients:..... 20%

Total:..... 100%

*Contains a minimum of 1.06×10^9 cfu/gram of active ingredient.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See back panel for First Aid and additional Precautionary Statements

EPA Reg. No. 86174-G

EPA Est. No.

Net Contents: 2.5 Lbs (1.1 Kg)

ACCEPTED

JAN 31 2012

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

86174-3

Sub-label A

Botector

For Agricultural/Commercial Use

ACCEPTED

OFFICE OF THE ATTORNEY GENERAL
STATE OF NEW YORK
JAN 27 2012

Botector

A Biological Agent for the Protection of Pome Fruit from storage diseases, Grapes and Strawberries from Botrytis, and Stone Fruit from Monilia



FOR ORGANIC PRODUCTION

Active Ingredients:

Aureobasidium pullulans strain DSM 14940*..... 40%

Aureobasidium pullulans strain DSM 14941*..... 40%

Other Ingredients:..... 20%

Total..... 100%

*Contains a minimum of 1.06×10^9 cfu/gram of active ingredient.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See back panel for First Aid and additional Precautionary Statements

EPA Reg. No. 86174-G

EPA Est. No.

Net Contents: 2.5 Lbs (1.1 Kg)

FIRST AID	
If swallowed:	<ul style="list-style-type: none"> • Call a 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 by mouth to an unconscious person.
If on skin:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
HOT LINE NUMBER Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National Poison Control Hotline at 1-800-222-1222 for emergency medical treatment information.	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear waterproof gloves. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- waterproof gloves
- shoes plus socks

Mixer/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.

Follow manufacturers' 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.

Engineering Controls

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must provide all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

USER SAFETY RECOMMENDATIONS

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

IMPORTANT: Read the entire label before using this product.

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. Do not contaminate water when cleaning equipment or disposing of equipment wash waters or rinsate.

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 State or Tribal 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 (REI). The requirements in this box 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 unless wearing appropriate PPE.

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

OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES; RESERVOIRS; RIVERS; PERMANENT STREAMS, MARSHES OR NATURAL PONDS; ESTUARIES AND COMMERCIAL FISH FARM PONDS.

Spray Drift Reduction Management:

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator. Use the following as a guide for reducing drift onto non-target sites.

Buffer Zone Requirements:

Ground, Foliar Applications: Do not apply by ground within 25 feet of lakes; reservoirs; rivers; permanent streams, marshes or natural ponds; estuaries and commercial fish farm ponds.

Wind Speed Restrictions: Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size, canopy and equipment specifications determine drift potential at any given wind speed. Do not apply when winds are greater than 15 mph and avoid gusty and windless conditions. Avoiding applications when wind direction is toward the aquatic area can reduce risk of exposure to sensitive aquatic areas.

Runoff Management: Do not cultivate within 10 feet of the aquatic areas to allow growth of a vegetative filter strip. When used on erodible soils, consult your local Soil Conservation Service before

using this product in your area. Do not apply if soil is saturated with water. Do not apply under conditions that favor runoff from drift.

General Information

Botector consists of two strains of *Aureobasidium pullulans*. *Aureobasidium pullulans* is a ubiquitous microorganism in the environment. Botector must be used as a preventative measure before infection by the pathogens. The product competes for space and nutrients with the pathogens. Using competitive inhibition, Botector is effective against fruit rot on pome fruits due to *Penicillium*, *Botrytis*, *Monilia*, *Nectria*, and *Pezicula*. Botector is effective against *Botrytis cinerea* on grapes and strawberries, and against *Monilia* on stone fruit.

Botector can be applied up to the day of harvest.

Do not apply this product through any type of irrigation system. Do not aerially apply this product.

Preparation of Botector Mixture:

Ensure the temperature of the tank mixture is below 86°F (30°C). Agitate mixture before and during application. Use the spray mixture within 8 hours after tank-mixing.

Compatibility:

Do not mix Botector with other chemicals or fertilizers during application. For further product compatibility information, contact Westbridge Agricultural Products.

PRE-HARVEST APPLICATION

Apply specified rate of Botector as a directed spray to blossoms or fruit. Ensure thorough coverage of fruit.

Crops to be Treated	Disease Controlled	Rate of Botector	Time of Application
GRAPE** (for example): American bunch grapes (Table Grapes and Wine Grapes), Muscadine grape and Vinifera grape	Gray mold, <i>Botrytis cinerea</i>	Use 10 oz of Botector per acre. Use enough water to assure adequate coverage (100 to 500 gallons/acre). Treat bunch zone only.	3 applications total: e.g., at 80% flower caps fallen; before bunch closure; during softening of the berries; or during ripening.
POME FRUIT** (for example): Apple, Crabapple, Loquat, Mayhaw, Pear, Oriental pear, Quince	Storage diseases such as <i>Botrytis cinerea</i> , <i>Penicillium expansum</i> , <i>Monilia fructigena</i> , <i>Nectria galligena</i> , and <i>Pezicula alba</i>	Use 10 oz of Botector per acre. Use enough water to assure adequate coverage (100 to 500 gallons/acre)/6 feet crown height.	2-3 applications, starting 5 weeks before harvest; minimum application interval, 5 days.

STONE FRUIT** (for example): Apricot, Cherry (including sweet and tart), Nectarine, Peach, Plum (including Chickasaw, Damson and Japanese), Plumcot, Prune (fresh)	Blossom blight, Monilia laxa Brown rot, Monilia fructigena	Use 10 oz of Botector per acre. Use enough water to assure adequate coverage (100 to 500 gallons/acre)/6 feet crown height.	4 treatments at 10%, 40%, 70% and 90% open flowers. 3 treatments, starting 5 weeks before harvest; minimum application interval, 5 days.
STRAWBERRY**	Gray mold, Botrytis cinerea	Use 10 oz of Botector per acre. Use enough water to assure adequate coverage (100 to 500 gallons/acre).	Weekly from full bloom until harvest.

** Use not permitted in California unless otherwise directed by supplemental labeling.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Avoid freezing. Store at 46°F (8°C). Store only in original container in an area designated for pesticide storage. Keep out of reach of children.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

Conditions of Sale

Seller warrants that this product consists of the ingredient specified and is reasonably fit for the purposes stated on this label when used in accordance with the directions under normal conditions of use. No one, other than the officer of the Seller, is authorized to make any warranty or guarantee concerning this product. Because the time, place, rate of application and other conditions of use are beyond Seller's control, to the extent consistent with applicable law, Seller's liability from handling, storage and use of this product is limited to replacement of product or refund of purchase price.

Manufactured by

bio-ferm GmbH
 Technologiezentrum Tulln
 Technopark 1B
 3430 Tulln, Austria

For Product Information, contact:

Westbridge Agricultural Products
 12160 Avenida Chelsea, Vista, CA 92081
 Phone: (800) 876-2767

Sub-label B
Botector
For Residential Use

10/13

Botector

A Biological Agent for the Protection of Pome Fruit from storage diseases, Grapes and Strawberries from Gray Mold, and Stone Fruit from Brown Rot

 **FOR ORGANIC GARDENING**

Active Ingredients:

Aureobasidium pullulans strain DSM 14940* 40%

Aureobasidium pullulans strain DSM 14941* 40%

Other Ingredients: 20%

Total 100%

*Contains a minimum of 1.06×10^9 cfu/gram of active ingredient.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See back panel for First Aid and additional Precautionary Statements

EPA Reg. No. 86174-G

EPA Est. No.

Net Contents: 2.5 Lbs (1.1 Kg)

FIRST AID	
If swallowed:	<ul style="list-style-type: none"> • Call a 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 by mouth to an unconscious person.
If on skin:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
HOT LINE NUMBER Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National Poison Control Hotline at 1-800-222-1222 for emergency medical treatment information.	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear waterproof gloves. Remove and wash contaminated clothing before reuse.

IMPORTANT: Read the entire label before using this product.

Environmental Hazards

Do not apply directly to water. Do not contaminate water when cleaning equipment or disposing of equipment wash waters or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

General Information

Botector consists of two strains of *Aureobasidium pullulans*. *Aureobasidium pullulans* is a ubiquitous microorganism in the environment. Botector must be used as a preventative measure before infection by the pathogens. The product competes for space and nutrients with the pathogens. Using competitive inhibition, Botector is effective against fruit rot on pome fruits due to *Penicillium*, *Botrytis*, *Monilia*, *Nectria*, and *Pezizula*. Botector is effective against *Botrytis cinerea* (gray mold) on grapes and strawberries, and against *Monilia* (brown rot) on stone fruit.

Botector can be applied up to the day of harvest.

PRE-HARVEST APPLICATION

Apply specified rate of Botector as a directed spray to blossoms or fruit. Use cold water [below 86°F (30°C)] when preparing Botector spray mixture.

Plants to be treated	Disease Controlled	Rate of Botector	Time of Application
GRAPE**: American bunch grapes (Table Grapes and Wine Grapes), Muscadine grape and Vinifera grape	Gray mold (<i>Botrytis cinerea</i>)	Mix ¼ teaspoon of Botector in 1 gallon of water. Shake well before applying. Apply to treat 100 sq ft. Treat bunch zone only.	3 applications total: at 80% flower caps fallen; before bunch closure; during softening of the berries; or during ripening.
POME FRUIT**: Apple, Crabapple, Loquat, Mayhaw, Pear, Oriental pear, Quince	Storage diseases such as gray mold (<i>Botrytis cinerea</i>), <i>Penicillium expansum</i> , brown rot (<i>Monilia fructigena</i>), <i>Nectria galligena</i> , and <i>Pezicula alba</i>	Mix ¼ teaspoon of Botector in 1 gallon of water. Shake well before applying. Apply to treat 100 sq ft. of 6-foot crown height trees.	2-3 applications, starting 5 weeks before harvest; minimum application interval, 5 days.
STONE FRUIT**: Apricot, Cherry (including sweet and tart), Nectarine, Peach, Plum (including Chickasaw, Damson and Japanese), Plumcot, Prune (fresh)	Blossom blight (<i>Monilia laxa</i>) Brown rot (<i>Monilia fructigena</i>)	Mix ¼ teaspoon of Botector in 1 gallon of water. Shake well before applying. Apply to treat 100 sq ft. of 6-foot crown height trees.	4 treatments at 10%, 40%, 70% and 90% open flowers. 3 treatments, starting 5 weeks before harvest; minimum application interval, 5 days.
STRAWBERRY**	Gray mold (<i>Botrytis cinerea</i>)	Mix ¼ teaspoon of Botector in 1 gallon of water. Shake well before applying. Apply to treat 100 sq ft.	Weekly from full bloom until harvest.

* Use not permitted in California unless otherwise directed by supplemental labeling.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Avoid freezing. Store at 46°F (8°C). Store only in original container in an area designated for pesticide storage. Keep out of reach of children.

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Manufactured by

bio-ferm GmbH
Technologiezentrum Tulln
Technopark 1B
3430 Tulln
Austria

For Product Information, contact:

Westbridge Agricultural Products
12160 Avenida Chelsea, Vista, CA 92081
Phone: (800) 876-2767