



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

January 5, 2018

Frederick T. Smith  
Authorized Agent to bio-ferm GmbH  
SciReg, Inc.  
12733 Director's Loop  
Woodbridge, VA 22192

Subject: Pesticide Registration Improvement Act (PRIA) Labeling Amendment – To Extend the Label Storage Claims to 18 Months at Room Temperature and 30 Months at Cold Temperature and Make Revisions Requested by the EPA  
Product Name: Botector  
EPA Registration Number: 86174-3  
Application Date: 07/17/2017  
OPP Decision Number: 531807

Dear Mr. Smith:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 § CFR 152.3.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the U.S. Environmental Protection Agency (EPA). If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims

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EPA Reg. No. 86174-3  
OPP Decision No. 531807

made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Nicola Steinmetz by phone at (703) 347-8567 or via email at [steinmetz.nicola@epa.gov](mailto:steinmetz.nicola@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read 'JKausch', is written over a faint, light-colored circular stamp or watermark.

Jeannine Kausch, Product Manager 92  
Microbial Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)  
Office of Pesticide Programs

Enclosure

# Master Label Botector

Sub-label A: Agricultural/Commercial Use

Sub-label B: Residential Use

Sub-label C: Post-Harvest Citrus Use (alternate brand name, DeccoFerm®)

**Active Ingredients:**

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

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

**Other Ingredients:**.....20%

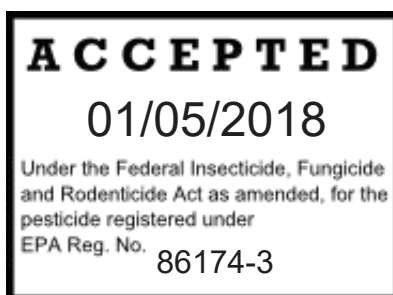
**Total**..... 100%

\*Contains a total minimum of  $1.06 \times 10^9$  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. 86174-3  
EPA Est. No. 86174-AUT-001  
Net Contents: 20 oz (0.57 Kg)**



**Sub-label A**

**Botector**

**For Agricultural/Commercial Use**

# Botector

**A Biological Fungicide for the Protection of Pome Fruits from the Labeled Storage Diseases; Grapes and Tomatoes from *Botrytis cinerea*; Berries from Anthracnose, *Botrytis cinerea*, *Phomopsis* spp., and *Rhizopus* Fruit Rot; Stone Fruits and Almonds from *Monilinia* spp. and Blossom Blight; and Hazelnuts from *Anisogramma anomala***



**Active Ingredients:**

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

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

**Other Ingredients:**.....20%

**Total**..... 100%

\*Contains a total minimum of  $1.06 \times 10^9$  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. 86174-3  
EPA Est. No. 86174-AUT-001  
Net Weight: 20 oz (0.57 Kg)**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

**Lot No.**

**Manufactured on:**

<b>FIRST AID</b>	
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p><b>HOTLINE NUMBER</b></p> <p>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 24 hours a day, 7 days a week.</p>	

## **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 NIOSH-approved particulate respirator with any N, R or P filter with NIOSH approval number prefix TC-84A; or a NIOSH-approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

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.

### **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)(4-5)], 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 be provided 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.

### 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 disposing of equipment washwater 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.

**IMPORTANT:** Read the entire label before using this product.

#### 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 interval (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.

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 10 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 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.

**Product 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 certain pathogens. The product competes for space and nutrients with the labeled pathogens. Using competitive inhibition, Botector is effective against fruit rot on pome fruits due to *Penicillium* spp., *Botrytis cinerea*, *Monilinia* spp., *Nectria galligena*, and *Pezicula* spp. Botector is effective against *Botrytis cinerea* on berries, grapes, and tomatoes, as well as Anthracnose, *Phomopsis* spp. and *Rhizopus* fruit rot in berries. Botector is effective against *Monilinia* spp. and blossom blight in stone fruits and almonds, as well as *Anisogramma anomala* in hazelnuts (filberts).  
FRAC Code: NC (not classified)

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.

**Crops Treated + Diseases Controlled**

	<b>Crops Treated</b>	<b>Diseases Controlled</b>
BERRIES	Strawberry, Raspberry, Blueberry, Blackberry, Huckleberry, Red and Black Currant, Loganberry	Gray mold ( <i>Botrytis cinerea</i> ), Anthracnose, <i>Phomopsis</i> spp., <i>Rhizopus</i> Fruit Rot
GRAPE	American Bunch Grapes (Table Grapes, Wine Grapes and Raisin Grapes), Muscadine Grape and Vinifera Grape	Gray mold ( <i>Botrytis cinerea</i> )
POME FRUIT**	Apple, Crabapple, Loquat, Mayhaw, Pear, Oriental Pear, Quince	Storage diseases: <i>Botrytis cinerea</i> , <i>Penicillium</i> spp., <i>Monilinia</i> spp., <i>Nectria galligena</i> and <i>Pezicula</i> spp.
STONE FRUIT	Apricot, Cherry (including Sweet and Tart), Nectarine, Peach, Plum (including Chickasaw, Damson and Japanese), Plumcot, Prune (fresh)	Blossom blight, Brown rot ( <i>Monilinia</i> spp.)
ALMOND	Almond	Blossom blight, Brown rot ( <i>Monilinia</i> spp.)
HAZELNUT**	Hazelnut (Filbert)	Eastern filbert blight ( <i>Anisogramma anomala</i> )
TOMATO	Fresh and processing tomatoes (greenhouse and field production)	Gray mold ( <i>Botrytis cinerea</i> )

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

**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:**

Not all chemicals or fertilizers can be mixed with Botector during application. Many fungicides are not compatible and may be detrimental to Botector. Observe the most restrictive of the labeling limitations



and precautions of all products used in mixtures. For product compatibility information, contact Westbridge Agricultural Products.

## PRE-HARVEST APPLICATION

Apply specified rate of Botector, as a directed spray to the target crop. Ensure thorough coverage wherever infection is likely to occur. For tomatoes, ensure full plant spray coverage.

### Application Rate

Use sufficient water for adequate and even coverage without runoff:

Crop	Water Volume (gallons/acre)	Amount of Botector (ounces/acre)
BERRIES	100-500	5-10
ALMOND GRAPE POME FRUIT** STONE FRUIT HAZELNUT**	≤ 50	6
	51 to 100	8
	101 to 200	10
	201 to 300	12
	301 to 500	14
TOMATO	20 to 400	7-14

### Application Instructions

Crop	Time of Application	Number of Applications
BERRIES	From beginning of bloom until harvest	With intervals of 5-7 days depending on infection pressure
GRAPE*	Between early and late bloom (10-80%)	1-3 applications depending on infection pressure
	Before bunch closure	1 application
	During veraison/berry softening	1 application
	During ripening	Additional applications, with intervals of 3-7 days depending on infection pressure
POME FRUIT**	Starting 5 weeks before harvest	Up to 6 applications, with intervals of 5-7 days depending on infection pressure
STONE FRUIT ALMOND	At 10, 40, 70 and 90% open flowers	4 applications
	Starting 5 weeks before harvest	Up to 6 applications, with intervals of 5-7 days depending on infection pressure
TOMATO	Starting at emergence or transplant until harvest	Apply every 5-10 days depending on growth rate and infection pressure
HAZELNUT**	Starting at bud break	Up to 8 applications, with intervals of 5-7 days depending on infection pressure

\* Treat bunch zone only.

\*\* 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:** Botector must be stored out of direct sunlight in a cool, dry place. Do not freeze. From date of manufacture, product can be stored 18 months at room temperature (47°F to 68°F; 9°C to 20°C) or 30 months at cold temperature (34°F to 46°F; 1°C to 8°C). After storage times under the specified conditions have been exceeded, do not use and dispose of product in accordance with the instructions below. 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 must be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### **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 is authorized to make any other warranty or guarantee concerning this product. To the extent consistent with applicable law, any liability arising from the 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 1  
3430 Tulln, Austria

**For Product Information, contact:**

Westbridge Agricultural Products  
1260 Avenida Chelsea, Vista, CA 92081  
USA  
Phone: (800) 876-2767

**Sub-label B**

**Botector**

**For Residential Use**

# Botector

**A Biological Fungicide for the Protection of Pome Fruits from the Labeled Storage Diseases; Grapes, Tomatoes and Berries from Gray Mold; Stone Fruits and Almonds from Brown Rot and Blossom Blight; Hazelnuts from Eastern Filbert Blight; and Other Plants from the Diseases Listed on this Label**



**FOR ORGANIC GARDENING**

**Active Ingredients:**

*Aureobasidium pullulans* strain DSM 14940\* ..... 40%  
*Aureobasidium pullulans* strain DSM 14941\* ..... 40%

**Other Ingredients:**..... 20%  
**Total**..... 100%

\*Contains a total minimum of  $1.06 \times 10^9$  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. 86174-3  
EPA Est. No. 86174-AUT-001  
Net Weight: 20 oz (0.57 Kg)**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

**Lot No.  
Manufactured on:**

<b>FIRST AID</b>	
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p><b>HOTLINE NUMBER</b></p> <p>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 24 hours a day, 7 days a week.</p>	

## **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. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

### **Environmental Hazards**

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area.

## **DIRECTIONS FOR USE**

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

**IMPORTANT:** Read the entire label before using this product.

### **Product 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 certain pathogens. The product competes for space and nutrients with the labeled pathogens. Using competitive inhibition, Botector is effective against fruit rot on pome fruits due to *Penicillium* spp., *Botrytis cinerea* (gray mold), *Monilinia* spp., *Nectria galligena*, and *Pezicula* spp. Botector is effective against *Botrytis cinerea* (gray mold) on grapes and tomatoes, and against *Botrytis cinerea* (gray mold), Anthracnose, *Phomopsis* spp., and *Rhizopus* Fruit Rot in berries. Botector also controls *Monilinia* spp. (brown rot) and blossom blight in stone fruits and almonds, as well as *Anisogramma anomala* (Eastern filbert blight) in hazelnuts (filberts).

Botector can be applied up to the day of harvest.

**Plants Treated + Diseases Controlled**

	<b>Plants Treated</b>	<b>Diseases Controlled</b>
BERRIES	Strawberry, Raspberry, Blueberry, Blackberry, Huckleberry, Red and Black Currant, Loganberry	Gray mold ( <i>Botrytis cinerea</i> ), Anthracnose, <i>Phomopsis</i> spp., <i>Rhizopus</i> Fruit Rot
GRAPE	American Bunch Grapes (Table Grapes, Wine Grapes and Raisin Grapes), Muscadine Grape and Vinifera Grape	Gray mold ( <i>Botrytis cinerea</i> )
POME FRUIT**	Apple, Crabapple, Loquat, Mayhaw, Pear, Oriental Pear, Quince	Storage diseases: <i>Botrytis cinerea</i> , <i>Penicillium</i> spp., <i>Monilinia</i> spp., <i>Nectria galligena</i> and <i>Pezicula</i> spp.
STONE FRUIT	Apricot, Cherry (including Sweet and Tart), Nectarine, Peach, Plum (including Chickasaw, Damson and Japanese), Plumcot, Prune (fresh)	Blossom blight, Brown rot ( <i>Monilinia</i> spp.)
ALMOND	Almond	Blossom blight, Brown rot ( <i>Monilinia</i> spp.)
HAZELNUT**	Hazelnut (Filbert)	Eastern filbert blight ( <i>Anisogramma anomala</i> )
TOMATO	Fresh and processing tomatoes (greenhouse and garden)	Gray mold ( <i>Botrytis cinerea</i> )

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

**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.

**Application Rate**

Use a quantity of spray sufficient to thoroughly cover foliage, especially flowers or blooms. Spray to wet, but avoid runoff. One gallon of spray mixture is sufficient to cover approximately 300 sq. ft. of plants.

<b>Plants Treated</b>	<b>Water Volume</b>	<b>Amount of Botector</b>
ALMOND BERRIES GRAPE POME FRUIT** STONE FRUIT TOMATO HAZELNUT**	1 gallon	1-2 teaspoons (approximately 2.5 g Botector/tsp)

**Application Instructions**

<b>Plants Treated</b>	<b>Time of Application</b>	<b>Number of Applications</b>
BERRIES	From beginning of bloom until harvest	Every 5-7 days depending on infection pressure
GRAPE*	Between early and late bloom (10-80%)	1-3 applications depending on infection pressure

	Before bunch closure	1 application
	During veraison/berry softening	1 application
	During ripening	Additional applications, with intervals of 3-7 days depending on infection pressure
POME FRUIT**	Starting 5 weeks before harvest	Up to 6 applications, with intervals of 5-7 days depending on infection pressure
STONE FRUIT ALMOND	At 10, 40, 70 and 90% open flowers	4 applications
	Starting 5 weeks before harvest	Up to 6 applications, with intervals of 5-7 days depending on infection pressure
TOMATO	Starting at emergence or transplant until harvest	Apply every 5-10 days depending on growth rate and infection pressure
HAZELNUT**	Starting at bud break	Up to 8 applications, with intervals of 5-7 days depending on infection pressure

\* Treat bunch zone only.

\*\* 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:** Botector must be stored out of direct sunlight in a cool, dry place. Do not freeze. From date of manufacture, product can be stored 18 months at room temperature (47°F to 68°F; 9°C to 20°C) or 30 months at cold temperature (34°F to 46°F; 1°C to 8°C). After storage times under the specified conditions have been exceeded, do not use and dispose of product in accordance with the instructions below. Store only in original container in an area designated for pesticide storage. Keep out of reach of children.

**PESTICIDE DISPOSAL AND 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 is authorized to make any other warranty or guarantee concerning this product. To the extent consistent with applicable law, any liability arising from the 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 1  
3430 Tulln, Austria

#### For Product Information, contact:

Westbridge Agricultural Products  
1260 Avenida Chelsea, Vista, CA 92081  
USA  
Phone: (800) 876-2767

**Sub-label C**

**Botector**

**For Post-Harvest Citrus Use**



# Botector

A Biological Fungicide for the Post-Harvest Protection of Citrus Fruits from Storage Diseases Caused by *Penicillium* spp. and *Geotrichum* spp.



**Active Ingredients:**

*Aureobasidium pullulans* strain DSM 14940\* ..... 40%  
*Aureobasidium pullulans* strain DSM 14941\* ..... 40%

**Other Ingredients:**..... 20%

**Total**..... 100%

\*Contains a total minimum of  $1.06 \times 10^9$  cfu/gram of active ingredient.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**See back panel for First Aid and additional Precautionary Statements**

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(If you do not understand the label, find someone to explain it to you in detail.)

**Lot No.  
Manufactured on:**

ABN = DeccoFerm®

<b>FIRST AID</b>	
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>HOTLINE NUMBER</b>	
<p>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 24 hours a day, 7 days a week.</p>	

## **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

Mixers/loaders and applicators must wear a NIOSH-approved particulate respirator with any N, R or P filter with NIOSH approval number prefix TC-84A; or a NIOSH-approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

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.

### **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)(4-5)], 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 be provided 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.

### 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 disposing of equipment washwater 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.

**IMPORTANT:** Read the entire label before using this product.

#### Product 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 certain pathogens. The product competes for space and nutrients with the labeled pathogens. Using competitive inhibition, Botector is effective against post-harvest storage diseases on citrus fruit caused by *Penicillium* spp. and *Geotrichum* spp.

#### Crops Treated + Diseases Controlled:

Crop Group	Crops Treated	Diseases Controlled
CITRUS FRUIT	Such as Lemon, Mandarin, Clementine, Orange, and Grapefruit	Storage diseases: green and blue mold caused by <i>Penicillium</i> spp. and sour rot caused by <i>Geotrichum</i> spp.

#### Mixing Instructions:

Ensure that the water temperature is below 86°F (30°C). Prepare no more tank mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. Agitation is necessary for proper dispersal of the product. Maintain maximum agitation throughout the application. Use the spray mixture within 8 hours after tank mixing. Flush the spray equipment thoroughly following each use.

Fill mixing tank with half of the water and start the mixer. Add the required amount of Botector to the tank and mix until the product is fully dispersed. Fill tank to specified volume.

#### Compatibility:

Not all chemicals can be tank mixed with Botector. Follow all the label restrictions, limitations and precautions of all products intended for use with Botector. For product compatibility information, contact DECCO US Post-Harvest, Inc.

### POST-HARVEST APPLICATION

Apply Botector prior to wax application to citrus fruit. Do not tank mix with fruit coatings. For application with diluted citrus storage wax, contact DECCO US Post-Harvest, Inc.

Apply Botector at the concentration specified in the Application Instructions table below as a post-harvest treatment to citrus fruit. Ensure thorough coverage of fruit.

## Application Instructions

Crop	Application Rate	Time of Application	Number of Applications
CITRUS FRUIT	1 pound of Botector/60 gallons of water	Post-harvest	Two, by drench or spray

### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Botector must be stored out of direct sunlight in a cool, dry place. Do not freeze. From date of manufacture, product can be stored 18 months at room temperature (47°F to 68°F; 9°C to 20°C) or 30 months at cold temperature (34°F to 46°F; 1°C to 8°C). After storage times under the specified conditions have been exceeded, do not use and dispose of product in accordance with the instructions below. 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 must be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### 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 1  
3430 Tulln, Austria

#### For Product Information, contact:

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Phone: (800) 221-0925