

86174-4

01/31/2012

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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:  
**86174-4**

Date of Issuance:  
**January 31, 2012**

**Unconditional**

Term of Issuance:

Name of Pesticide Product:

**Blossom Protect**

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. **86174-4**."
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>Stovall</i>	<i>Quilley</i>					
DATE	▶ 1-30-12	1/31/12					

EPA Form 1320-1A (1/90)

OFFICIAL FILE COPY



Master Label  
**Blossom Protect**

Sub-label A: Agricultural/Commercial Use

Sub-label B: Residential Use

**Active Ingredients:**

<i>Aureobasidium pullulans</i> strain DSM 14940*	25.8%
<i>Aureobasidium pullulans</i> strain DSM 14941*	25.8%
<b>Other Ingredients:</b>	<u>48.4%</u>
<b>Total</b>	100.0%

\*Contains a minimum of  $8.8 \times 10^8$  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-U

EPA Est. No.

**ACCEPTED**

JAN 31 2012

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

86174-4



Sub-label A

**Blossom Protect**

For Agricultural/Commercial Use

ACCEPTED



4/13

# Blossom Protect

A Biological Agent for Preventing Fire Blight in Pome Fruits

**Active Ingredients:**

<i>Aureobasidium pullulans</i> strain DSM 14940*	25.8%
<i>Aureobasidium pullulans</i> strain DSM 14941*	25.8%
<b>Other Ingredients:</b>	<u>48.4%</u>
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**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See back panel for First Aid and additional Precautionary Statements

EPA Reg. No. 86174-U      EPA Est. No.

Net Contents: 2.5 Lbs (1.1 Kg)



<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:</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>HOT LINE NUMBER</b> 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 chemical resistant gloves and protective eyewear. Remove and wash contaminated clothing before reuse.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- protective eyewear
- chemical resistant 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.



**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.

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

**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
- Chemical resistant 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:**

Blossom Protect is a microbial plant protection product consisting of two strains of *Aureobasidium pullulans*. *Aureobasidium pullulans* is a ubiquitous microorganism in the environment.

Blossom Protect must be used as a preventative measure before the occurrence of infection with the causal agent of fire blight, *Erwinia amylovora*. Apply Blossom Protect when environmental conditions for the growth of *Erwinia amylovora* are present.

**Mode of Action:**

The microorganisms in Blossom Protect settle at the bottom of the blossoms of the trees and compete with the pathogen, *Erwinia amylovora*, for space and nutrients. Using competitive inhibition, Blossom Protect prevents the development of fire blight disease by colonizing the blossom and reducing the ability of the *Erwinia amylovora* bacteria to thrive.

**Compatibility:**

Not all chemicals or fertilizers can be mixed with Blossom Protect during application. Check with your state agricultural extension specialist before mixing with pesticides. When tank-mixing Blossom Protect with any other products, always read and follow all use directions, restrictions, and precautions of both Blossom Protect and the tank-mix partner(s). The resulting tank mix must be in accordance with the most restrictive of labeling limitations and precautions of all products used in mixtures. Do not exceed label dosage rates. For further product compatibility information, contact Westbridge Agricultural Products.

**Phytotoxicity:** Perform a phytotoxicity test on a small plot before large-scale application.

**Preparation of Blossom Protect Spray Mixture:**

Ensure the temperature of the spray mixture is below 86°F (30°C). Maintain agitation of the spray mixture. Use the spray mixture within 8 hours after tank-mixing.

In 50-200 gallons water, add 2.5 lbs of Blossom Protect

Metric Units:

In 190-757 L water, add 1.1 kg of Blossom Protect

To accelerate the growth of *Aureobasidium pullulans* in the flower, the addition of Buffer Protect to the mixture is beneficial. If using Buffer Protect, prepare the spray mixture as directed below.



In 50-200 gallons water, add 2.5 lbs of Blossom Protect + 17.5 lbs of Buffer Protect

**Metric Units:**

In 190-757 L water, add 1.1 kg of Blossom Protect + 8 kg of Buffer Protect

**Application Instructions:**

Apply the spray mixture while maintaining agitation. Use the prepared Blossom Protect Spray Mixture within 8 hours after tank-mixing.

Four applications provide optimum protection against Fire Blight. Spray Blossom Protect at 10%, 40%, 70%, and 90% open flower, according to the BBCH-scale: BBCH 61-69. Apply Blossom Protect to thoroughly wet the blossoms and foliage. For susceptible varieties, the product may, in some seasons, enhance russetting when applied during late blossom.

For application rates refer to the Application Table below. Apply as a foliar application only. Do not apply when fruit is present. Do not apply spray mixture through any type of irrigation system. Do not apply spray mixture aerially.

**APPLICATION TABLE**

Crop	Pest Controlled	Rate	Application Method
<b>POME FRUITS:</b> Apple, Crabapple, Loquat, Mayhaw, Pear, Oriental pear, Quince	Fire Blight <i>(Erwinia amylovora)</i>	Adjust spray volume to achieve application rate of 2.5 lbs of Blossom Protect per 2 acres of 6-foot crown height trees.	Apply as a spray to tree foliage.

**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. Completely empty bag into application equipment. Then offer for recycling, if available or 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.

**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



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Sub-label B

**Blossom Protect**

For Residential Use



11/13

# Blossom Protect

A Biological Agent for Preventing Fire Blight in Pome Fruits

**Active Ingredients:**

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<i>Aureobasidium pullulans</i> strain DSM 14941*	25.8%

<b>Other Ingredients:</b>	<u>48.4%</u>
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<b>Total</b>	100.0%
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\*Contains a minimum of  $8.8 \times 10^8$  cfu/gram of active ingredient.

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CAUTION**

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EPA Reg. No. 86174-U      EPA Est. No.

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<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:</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>HOT LINE NUMBER</b> 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 chemical resistant gloves and protective eyewear. Remove and wash contaminated clothing before reuse.

**Environmental Hazards**

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

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

**DIRECTIONS FOR USE**

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

**General Information:**

Blossom Protect is a microbial plant protection product consisting of two strains of *Aureobasidium pullulans*. *Aureobasidium pullulans* is a ubiquitous microorganism in the environment.

Blossom Protect must be used as a preventative measure before the occurrence of infection with the causal agent of fire blight, *Erwinia amylovora*. Apply Blossom Protect when environmental conditions for the growth of *Erwinia amylovora* are present.

**Mode of Action:**

The microorganisms in Blossom Protect settle at the bottom of the blossoms of the trees and compete with the pathogen, *Erwinia amylovora*, for space and nutrients. Using competitive inhibition, Blossom Protect prevents the development of fire blight disease by colonizing the blossom and reducing the ability of the *Erwinia amylovora* bacteria to thrive.

**Preparation of Blossom Protect Mixture:**

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

Measure ½ gallon of cold water. Add 3/4 teaspoon of Blossom Protect

To accelerate the growth of *Aureobasidium pullulans* in the flower, the addition of Buffer Protect to the mixture is beneficial. If using Buffer Protect, prepare the spray mixture as directed below.



Measure 1/2 gallon of cold water. Add 3/4 teaspoon of Blossom Protect + 5 1/2 teaspoons of Buffer Protect

**Application Instructions:**

**Before applying Blossom Protect, shake well in enclosed bottle.**

Four applications provide optimum protection against Fire Blight. Spray Blossom Protect at 10%, 40%, 70%, and 90% open flower. Apply Blossom Protect to thoroughly wet the blossoms and foliage. For susceptible varieties, the product may, in some seasons, enhance russetting when applied during late blossom.

For application rates refer to the Application Table below. Apply as a foliar application only. Do not apply when fruit is present.

**APPLICATION TABLE**

Crop	Pest Controlled	Rate	Application Method
<b>POME FRUITS:</b> Apple, Crabapple, Loquat, Mayhaw, Pear, Oriental pear, Quince	Fire Blight ( <i>Erwinia amylovora</i> )	1/2 gallon of prepared Blossom Protect Spray Mixture per tree	Apply as a spray to tree foliage at 10%, 40%, 70%, and 90% open flower.

**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