



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

**OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION**

December 9, 2021

Rebecca Wilken  
Authorized Agent to bio-ferm GmbH  
SciReg, Inc.  
12733 Director's Loop  
Woodbridge, VA 22192

**Subject:** Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment – To add application instructions for certain pathogens of stone fruit and almond, add application instructions for bacterial blast on pome fruit, add supplemental labeling for the aforementioned crops and new pathogens, revise the compatibility and mixing instructions, and make other changes, including those requested by the EPA (e.g., update the glove description to include thickness information on both sublabels)  
Product Name: Blossom Protect  
EPA Registration Number: 86174-4  
EPA Receipt Date: 07/28/2020  
Action Case No.: 00141071

Dear Ms. Wilken:

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.

The supplemental labeling contains some new and/or revised uses and/or directions that may be additional to the uses and/or directions found on the label on or attached to the container, but the supplemental labeling does not by itself constitute the complete set of use directions. The complete set of use directions is set forth on the container label as combined with the supplemental labeling.

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 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 me by phone at (202) 566-1533 or via email at [kausch.jeannine@epa.gov](mailto:kausch.jeannine@epa.gov).

Sincerely,



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

Master Label  
**BLOSSOM PROTECT™**

Sub-label A: Agricultural/Commercial Use

Sub-label B: Residential Use

**Active Ingredients:**

*Aureobasidium pullulans* strain DSM 14940\* ..... 25.80%

*Aureobasidium pullulans* strain DSM 14941\* ..... 25.80%

**Other Ingredients:**..... 48.40%

**Total**..... 100.00%

\*Contains a total minimum of  $8.8 \times 10^8$  cfu/gram of active ingredient.

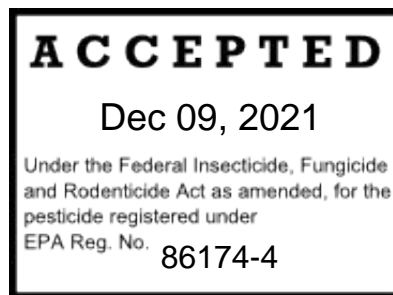
**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

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

EPA Reg. No. 86174-4

EPA Est. No. 86174-AUT-001



**Sub-label A**

**BLOSSOM PROTECT™**

**For Agricultural/Commercial Use**

<i>Aureobasidium pullulans</i> strains DSM 14940 and 14941	GROUP	NC	BACTERICIDE
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**BLOSSOM PROTECT™**  
BIOLOGICAL BACTERICIDE WG

**For Preventing Fire Blight in Pome Fruits, Walnut Blight in Walnuts, Bacterial Spot in Almonds\*\*, and Bacterial Blast in Stone Fruit\*\* and Pome Fruits\*\***



**Active Ingredients:**

<i>Aureobasidium pullulans</i> strain DSM 14940*	25.80%
<i>Aureobasidium pullulans</i> strain DSM 14941*	25.80%
<b>Other Ingredients:</b>	<u>48.40%</u>
<b>Total</b>	100.00%

\*Contains a total minimum of 8.8 x 10<sup>8</sup> 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. 86174-4      EPA Est. No. 86174-AUT-001**

**Net Weight: 2.5 Lbs (1.1 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:**

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

<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>
<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 neoprene rubber (≥ 14 mils), natural rubber (≥ 14 mils), butyl rubber (≥ 14 mils) or nitrile rubber (≥ 14 mils) 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
- Neoprene rubber (≥ 14 mils), natural rubber (≥ 14 mils), butyl rubber (≥ 14 mils) or nitrile rubber (≥ 14 mils) 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 170.607(d) and (e)], 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
- Protective eyewear
- Neoprene rubber ( $\geq 14$  mils), natural rubber ( $\geq 14$  mils), butyl rubber ( $\geq 14$  mils) or nitrile rubber ( $\geq 14$  mils) 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:**

BLOSSOM PROTECT™ consists of two strains of *Aureobasidium pullulans*. *Aureobasidium pullulans* is a ubiquitous microorganism in the environment.

BLOSSOM PROTECT™ must be used as a preventative measure prior to infection. The product competes for space and nutrients with the labeled pathogens. Using competitive inhibition, BLOSSOM PROTECT™ is effective against the labeled pathogens. Apply BLOSSOM PROTECT™ prior to or when environmental conditions for the growth of *Erwinia amylovora*, *Pseudomonas syringae* pv. *syringae*, *Xanthomonas arbuticola* pv. *juglandis* or *Xanthomonas arboricola* pv. *pruni* are present.

**Mode of Action:**

The microorganisms in BLOSSOM PROTECT™ colonize on the blossoms of the trees and compete with the labeled pathogens for space and nutrients. Using competitive inhibition, BLOSSOM PROTECT™ prevents the development of fire blight, walnut blight, bacterial spot and bacterial blast by colonizing the blossom and reducing the ability of the bacteria to thrive.

**Compatibility:**

Not all chemicals or fertilizers can be mixed with BLOSSOM PROTECT™ during application. Many fungicides are not compatible and may be detrimental to BLOSSOM PROTECT™. Follow all the label restrictions, limitations and precautions of all products intended for use with BLOSSOM PROTECT™. For product compatibility information, contact Westbridge Agricultural Products.

Fire Blight Walnut Blight Bacterial Spot Bacterial Blast	<i>Copper preparations:</i> No application 2 days before/after
	<i>Other incompatible products:</i> During bloom: No application on the same day OR 1 day after On leaf and fruit: No application 3 days before/after

Further information, the material safety data sheet and a detailed compatibility list are provided at: [www.bio-ferm.com](http://www.bio-ferm.com).

**Phytotoxicity:** Perform a phytotoxicity test on a few trees before large-scale application.



**Mixing Instructions:**

1. Clean the tank before using.
2. Do not prepare highly concentrated premixtures.
3. Add water to the tank. Do not use hot water.
4. Add BLOSSOM PROTECT™ to the water while agitating.

Apply the spray mixture while maintaining agitation. Use spray suspension within 8 hours. Do not leave leftovers in the tank.

In 50-200 gallons water per acre, add 1.25 lbs of BLOSSOM PROTECT™ per acre.

Metric Units:

In 467-1868 L water per hectare, add 1.4 kg of BLOSSOM PROTECT™ per hectare.

To accelerate the propagation of *Aureobasidium pullulans* in the flower, the addition of BUFFER PROTECT NT™ to the mixture is beneficial. If using BUFFER PROTECT NT™, prepare the spray suspension as directed below.

In 50-200 gallons of water per acre, add 1.25 lbs of BLOSSOM PROTECT™ + 5.00 [8.75] lbs of BUFFER PROTECT NT™ per acre. Add BLOSSOM PROTECT™ to the spray mix last.

Metric Units:

In 467-1868 L water per hectare, add 1.4 kg of BLOSSOM PROTECT™ + 5.6 [9.8] kg of BUFFER PROTECT NT™ per hectare. Add BLOSSOM PROTECT™ to the spray mix last.

## Application Instructions:

Apply BLOSSOM PROTECT™ to thoroughly wet the blossoms and foliage. Apply as a foliar application using ground equipment only. Do not apply BLOSSOM PROTECT™ through any type of irrigation system. Do not aerially apply this product. For susceptible pome fruit varieties, the product may contribute to russetting when applied during late blossom. Cool, wet weather conditions can increase the potential for russetting. Applications between stages 69 to 74 of the Biologische Bundesanstalt, Bundessortenamt und Chemische Industrie (BBCH) scale may result in potential russetting on fruit from primary bloom.

The BBCH scale is used to identify the phenological development stages of a plant.

- 61: Beginning of flowering: about 10% of flowers open
- 62: About 20% of flowers open
- 63: About 30% of flowers open
- 64: About 40% of flowers open
- 65: Full flowering: at least 50% of flowers open, first petals falling
- 67: Flowers fading: majority of petals fallen
- 69: End of flowering: all petals fallen
- 74: Fruit diameter up to 40 mm, fruit erect (T stage)  
Secondary and tertiary bloom

### FIRE BLIGHT

Pome fruit: Applications the day before predicted infection conditions (according to disease forecasting models) provide optimum protection against fire blight. If the risk for fire blight is high, up to four applications provide optimum protection. Spray BLOSSOM PROTECT™ at 10%, 40%, 70%, and 90% bloom, according to the BBCH scale: BBCH 61-69; and/or during secondary and tertiary bloom. When applying for secondary bloom, wait for a minimum of 4 weeks after primary bloom to minimize russet potential.

### BACTERIAL BLAST

Pome fruit and Stone fruit: Up to six applications may be needed between 10% and 100% bloom.

### WALNUT BLIGHT

Walnuts: Up to six applications may be needed between 10% and 100% bloom.

### BACTERIAL SPOT

Almonds: Multiple applications may be needed during bloom and at 2.5 and 5 weeks post-petalfall.

For application rates, refer to the Application Tables below.

A 2.5 pound (1.1 kg) container of BLOSSOM PROTECT™ treats 2 acres.

## APPLICATION TABLES

### POME FRUITS such as:

Apple, Crabapple, Loquat, Mayhaw, Pear, Oriental Pear, Quince

Disease Controlled	Rate	Time of Application
Fire Blight ( <i>Erwinia amylovora</i> )	Use 1.25 lbs of BLOSSOM PROTECT™ per 1 acre. Adjust spray volume to assure thorough coverage.	Up to 4 treatments at 10%, 40%, 70% and 90% bloom
Bacterial Blast ( <i>Pseudomonas syringae</i> pv. <i>syringae</i> )**		Up to 6 treatments between 10% bloom and 100% bloom

**STONE FRUITS such as:**

Apricot, Cherry (including Sweet and Tart), Nectarine, Peach, Plum (including Chickasaw, Damson and Japanese), Plumcot, Prune (fresh)

Disease Controlled	Rate	Time of Application
Bacterial Blast ( <i>Pseudomonas syringae</i> pv. <i>syringae</i> )**	Use 1.25 lbs of BLOSSOM PROTECT™ per 1 acre. Adjust spray volume to assure thorough coverage.	Up to 6 treatments between 10% bloom and 100% bloom

**WALNUTS**

Disease Controlled	Rate	Time of Application
Walnut Blight ( <i>Xanthomonas arbuticola</i> pv. <i>juglandis</i> )	Use 1.25 lbs of BLOSSOM PROTECT™ per 1 acre. Adjust spray volume to assure thorough coverage.	Up to 6 treatments between 10% bloom and 100% bloom

**ALMONDS**

Disease Controlled	Rate	Time of Application
Bacterial Spot ( <i>Xanthomonas arboricola</i> pv. <i>pruni</i> )**	Use 1.25 lbs of BLOSSOM PROTECT™ per 1 acre. Adjust spray volume to assure thorough coverage.	Through bloom and at 2.5 and 5 weeks post-petalfall

\*\* 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:** BLOSSOM PROTECT™ 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). Store only in original container in an area designated for pesticide storage. Keep out of reach of children. After storage times under the specified conditions have been exceeded, do not use and dispose of product in accordance with the instructions below.

**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 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  
Industriestraße 21  
3131 Getzersdorf, Austria  
+43 2782 83300 or [office@bio-ferm.com](mailto:office@bio-ferm.com)

**For Product Information, contact:**



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

**Sub-label B**

**BLOSSOM PROTECT™**

**For Residential Use**

# BLOSSOM PROTECT™

For Preventing Fire Blight in Pome Fruits, Walnut Blight in Walnuts, Bacterial Spot in Almonds\*\*, and Bacterial Blast in Stone Fruit\*\* and Pome Fruits\*\*



FOR ORGANIC GARDENING

**Active Ingredients:**

*Aureobasidium pullulans* strain DSM 14940\* ..... 25.80%

*Aureobasidium pullulans* strain DSM 14941\* ..... 25.80%

**Other Ingredients:**..... 48.40%

**Total**..... 100.00%

\*Contains a total 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. 86174-4

EPA Est. No. 86174-AUT-001

Net Weight: 2.5 Lbs (1.1 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:

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

<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>
<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 neoprene rubber (≥ 14 mils), natural rubber (≥ 14 mils), butyl rubber (≥ 14 mils) or nitrile rubber (≥ 14 mils) gloves and protective eyewear. Remove and wash contaminated clothing before reuse.

#### **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. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems.

### **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:**

BLOSSOM PROTECT™ consists of two strains of *Aureobasidium pullulans*. *Aureobasidium pullulans* is a ubiquitous microorganism in the environment.

BLOSSOM PROTECT™ must be used as a preventative measure prior to infection. Apply BLOSSOM PROTECT™ prior to or when environmental conditions for the growth of *Erwinia amylovora*, *Pseudomonas syringae* pv. *syringae*, *Xanthomonas arbuticola* pv. *juglandis* or *Xanthomonas arbuticola* pv. *pruni* are present.

#### **Mixing Instructions:**

Prepare mixture in a hand-held-type spray application tank. The spraying suspension must be agitated during application. Use spray suspension within 8 hours. Do not use hot water.

Measure ½ gallon of cold water. Add ¾ teaspoon of BLOSSOM PROTECT™.

To accelerate the propagation of *Aureobasidium pullulans* in the flower, the addition of BUFFER PROTECT NT™ to the mixture is beneficial. If using BUFFER PROTECT NT™, prepare the spray suspension as directed below.

Measure ½ gallon of cold water. Add ¾ teaspoon of BLOSSOM PROTECT™ + 3¼ [5½] teaspoons of BUFFER PROTECT NT™. Add BLOSSOM PROTECT™ to the spray mix last.

**Application Instructions:**

Apply BLOSSOM PROTECT™ to thoroughly wet the blossoms and foliage. Apply as a foliar application using a hand-held-type sprayer only. For susceptible pome fruit varieties, the product may contribute to russetting (i.e., the brown scarring that sometimes appears on the fruit skin) when applied during late blossom. Cool, wet weather conditions can increase the potential for russetting.

**FIRE BLIGHT**

Pome fruit: Applications the day before anticipated infection conditions provide optimum protection against fire blight. If the risk for fire blight is high, up to four applications provide optimum protection. Spray BLOSSOM PROTECT™ at 10%, 40%, 70%, and 90% bloom.

**BACTERIAL BLAST**

Pome fruit and Stone fruit: Up to six applications may be needed between 10% and 100% bloom.

**WALNUT BLIGHT**

Walnuts: Up to six applications may be needed between 10% and 100% bloom.

**BACTERIAL SPOT**

Almonds: Multiple applications may be needed during bloom and at 2.5 and 5 weeks post-petalfall.

For application rates, refer to the Application Tables below.

**APPLICATION TABLES**

**POME FRUITS such as:**

Apple, Crabapple, Loquat, Mayhaw, Pear, Oriental Pear, Quince

Disease Controlled	Rate	Time of Application
Fire Blight ( <i>Erwinia amylovora</i> )	½ gallon of prepared BLOSSOM PROTECT™ Spray Mixture per tree	Up to 4 treatments at 10%, 40%, 70% and 90% bloom
Bacterial Blast ( <i>Pseudomonas syringae</i> pv. <i>syringae</i> )**		Up to 6 treatments between 10% bloom and 100% bloom

**STONE FRUITS such as:**

Apricot, Cherry (including Sweet and Tart), Nectarine, Peach, Plum (including Chickasaw, Damson and Japanese), Plumcot, Prune (fresh)

Disease Controlled	Rate	Time of Application
Bacterial Blast ( <i>Pseudomonas syringae</i> pv. <i>syringae</i> )**	½ gallon of prepared BLOSSOM PROTECT™ Spray Mixture per tree	Up to 6 treatments between 10% bloom and 100% bloom



## WALNUTS

Disease Controlled	Rate	Time of Application
Walnut Blight ( <i>Xanthomonas arbuticola</i> pv. <i>juglandis</i> )	½ gallon of prepared BLOSSOM PROTECT™ Spray Mixture per tree	Up to 6 treatments between 10% bloom and 100% bloom

## ALMONDS

Disease Controlled	Rate	Time of Application
Bacterial Spot ( <i>Xanthomonas arboricola</i> pv. <i>pruni</i> )**	½ gallon of prepared BLOSSOM PROTECT™ Spray Mixture per tree	Through bloom and at 2.5 and 5 weeks post-petalfall

\*\* 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:** BLOSSOM PROTECT™ 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). Store only in original container in an area designated for pesticide storage. Keep out of reach of children. After storage times under the specified conditions have been exceeded, do not use and dispose of product in accordance with the instructions below.

**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  
Industriestraße 21  
3131 Getzersdorf, Austria  
+43 2782 83300 or office@bio-ferm.com

#### For Product Information, contact:



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

[Agricultural/Commercial Use]

<i>Aureobasidium pullulans</i> strains DSM 14940 and 14941	GROUP	NC	BACTERICIDE
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SUPPLEMENTAL LABELING

# BLOSSOM PROTECT™

## BIOLOGICAL BACTERICIDE WG

This supplemental labeling expires on June 15, 2023 and must not be used or distributed after this date.

The labeling must be in possession of the user at the time of application. Read the label affixed to the container for BLOSSOM PROTECT™ before applying. Use of BLOSSOM PROTECT™ according to this labeling is subject to the use precautions and limitations imposed by the label affixed to the container for BLOSSOM PROTECT™.

**Active Ingredients:**

<i>Aureobasidium pullulans</i> strain DSM 14940*	25.80%
<i>Aureobasidium pullulans</i> strain DSM 14941*	25.80%
<b>Other Ingredients:</b>	<u>48.40%</u>
<b>Total</b>	100.00%

\*Contains a total minimum of  $8.8 \times 10^8$  cfu/gram of active ingredient.

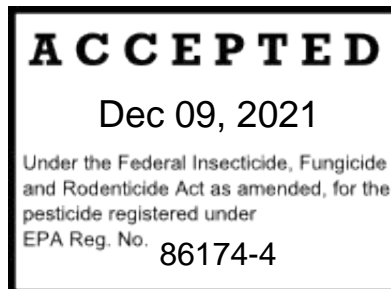
**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

EPA Reg. No. 86174-4

EPA Est. No. 86174-AUT-001

**Net Weight:** 2.5 Lbs (1.1 Kg)

Batch/Lot No.



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

## **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.

## **APPLICATION TABLES**

### **POME FRUITS such as:**

Apple, Crabapple, Loquat, Mayhaw, Pear, Oriental Pear, Quince

<b>Disease Controlled</b>	<b>Rate</b>	<b>Time of Application</b>
Bacterial Blast ( <i>Pseudomonas syringae</i> pv. <i>syringae</i> )**	Use 1.25 lbs of BLOSSOM PROTECT™ per 1 acre. Adjust spray volume to assure thorough coverage.	Up to 6 treatments between 10% bloom and 100% bloom

### **STONE FRUITS such as:**

Apricot, Cherry (including Sweet and Tart), Nectarine, Peach, Plum (including Chickasaw, Damson and Japanese), Plumcot, Prune (fresh)

<b>Disease Controlled</b>	<b>Rate</b>	<b>Time of Application</b>
Bacterial Blast ( <i>Pseudomonas syringae</i> pv. <i>syringae</i> )**	Use 1.25 lbs of BLOSSOM PROTECT™ per 1 acre. Adjust spray volume to assure thorough coverage.	Up to 6 treatments between 10% bloom and 100% bloom

### **ALMONDS**

<b>Disease Controlled</b>	<b>Rate</b>	<b>Time of Application</b>
Bacterial Spot ( <i>Xanthomonas arboricola</i> pv. <i>pruni</i> )**	Use 1.25 lbs of BLOSSOM PROTECT™ per 1 acre. Adjust spray volume to assure thorough coverage.	Through bloom and at 2.5 and 5 weeks post-petal fall

### **Application Instructions:**

Apply BLOSSOM PROTECT™ to thoroughly wet the blossoms and foliage. Apply as a foliar application using ground equipment only. Do not apply this product through any type of irrigation system. Do not aerially apply this product. For susceptible pome fruit varieties, the product may contribute to russetting when applied during late blossom. Cool, wet weather conditions can increase the potential for russetting. Applications between stages 69 to 74 of the Biologische Bundesanstalt, Bundessortenamt und Chemische Industrie (BBCH) scale may result in potential russetting on fruit from primary bloom.

The BBCH scale is used to identify the phenological development stages of a plant.

- 61: Beginning of flowering: about 10% of flowers open
- 62: About 20% of flowers open
- 63: About 30% of flowers open
- 64: About 40% of flowers open
- 65: Full flowering: at least 50% of flowers open, first petals falling
- 67: Flowers fading: majority of petals fallen
- 69: End of flowering: all petals fallen
- 74: Fruit diameter up to 40 mm, fruit erect (T stage)  
Secondary and tertiary bloom

### **BACTERIAL BLAST**

Pome fruit and Stone fruit: Up to six applications may be needed between 10% and 100% bloom.

## BACTERIAL SPOT

Almonds: Multiple applications may be needed during bloom and at 2.5 and 5 weeks post-petalfall.

For application rates, refer to the Application Tables above.

A 2.5 pound (1.1 kg) container of BLOSSOM PROTECT™ treats 2 acres.

BLOSSOM PROTECT™ consists of two strains of *Aureobasidium pullulans*. *Aureobasidium pullulans* is a ubiquitous microorganism in the environment. BLOSSOM PROTECT™ must be used as a preventative measure prior to infection. The product competes for space and nutrients with the labeled pathogens. Using competitive inhibition, BLOSSOM PROTECT™ is effective against the labeled pathogens.

### Manufactured by:



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