

PMRA Approved label  
2020-0098  
2020-10-20

GROUP	NC	BACTERICIDE
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## **BLOSSOM PROTECT™**

**Biological bactericide for the control of fire blight in pome fruit (bearing) and for the suppression of fire blight in woody *Rosaceae* ornamentals.**

**COMMERCIAL**  
**WETTABLE GRANULE**

**ACTIVE INGREDIENT:** *Aureobasidium pullulans* DSM 14940 and DSM 14941  
5 x 10<sup>9</sup> CFU/g

**REGISTRATION NO.: 30552 PEST CONTROL PRODUCTS ACT**

**KEEP OUT OF REACH OF CHILDREN**  
**READ THE LABEL BEFORE USING**

**CAUTION:**  
**POTENTIAL SENSITIZER**

**MANUFACTURER/REGISTRANT**  
bio-ferm GmbH  
Industriestraße 213130 Herzogenburg, Austria

**DISTRIBUTOR**  
Nufarm Agriculture Inc.  
Suite 350, 2618 Hopewell Place  
Calgary, Alberta T1Y7J7  
Product Information: 1-800-868-5444

Net Contents: 1.5 kg  
Date of Manufacture:

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**NOTICE TO USER:**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

**FIRST AID:**

**If swallowed:**

Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**If on skin or clothing:**

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

**If inhaled:**

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

**If in eyes:**

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:**

Treat symptomatically.

**PRECAUTIONS:**

KEEP OUT OF REACH OF CHILDREN. May cause sensitization. Avoid contact with eyes, skin or clothing. Avoid inhaling/breathing dusts. Wear coveralls, shoes plus socks, water-proof gloves and NIOSH approved respirator with any N, R, P or HE filter for biological products when handling, applying, and during all clean-up and repair activities. Early entry workers must wear long-sleeved shirts, long pants, shoes plus socks, and water-proof gloves until sprays have dried. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

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### **ENVIRONMENTAL PRECAUTIONS AND INFORMATION:**

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

DO NOT apply by air.

The spray suspension should be used within 8 hours of being prepared.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with moderate to steep slope, compacted soil or clay.

Contamination of aquatic areas as result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

### **STORAGE:**

To prevent contamination store this product away from food or feed. Store in a dry area inaccessible to children. Store in original container only. Keep container closed when not in use. Maximum storage period of 18 months at room temperature (20°C) or 30 months at cool storage (8°C) from date of manufacture.

### **DISPOSAL:**

1. Triple- or pressure rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. Dispose unwanted product in accordance with municipal or provincial regulations. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

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## DIRECTIONS FOR USE

### Preparation of spray mixture:

The pH of the spraying suspension shall be adjusted using a buffering agent (BUFFER PROTECT™ or BUFFER PROTECT NT™).

Prepare 1.05 % (w/v) suspension of BUFFER PROTECT™ or BUFFER PROTECT NT™ in water, then add BLOSSOM PROTECT™ at a rate of 0.15% (w/v). Do not use hot water for preparing the spray suspension. The package contents for BUFFER PROTECT™ (10.5 kg) or BUFFER PROTECT NT™ (6 kg) and BLOSSOM PROTECT™ (1.5 kg) are premeasured for 1000 L spray suspension and calculated to treat 1 ha if trees have 2 m canopy height. Use spraying suspension within 8 hours of preparation.

### Application Rate Table

The application rate must be adapted to the effective canopy height.

Crop	Disease	Application Rate (L spray mixture/ha)	Remarks
<b>Crop Group 11-09, Pome fruit (Bearing):</b> apple, azarole, crabapple, mayhaw, medlar, pear, Asian pear, quince, Chinese quince, Japanese quince, tejocote and cultivars, varieties and/or hybrids of these commodities.	Control of fire blight ( <i>Erwinia amylovora</i> )	1 m canopy height: 500 L/ha  2 m canopy height: 1000 L/ha	Spray mixture contains 1.05% (w/v) BUFFER PROTECT™ or BUFFER PROTECT NT™ (citric acid buffer) and 0.15% (w/v) BLOSSOM PROTECT™ (active ingredients).
<b>Woody Rosaceae ornamentals</b>	Suppression of fire blight ( <i>Erwinia amylovora</i> )		For the use on ornamentals, adapt the application rate accordingly.

### Timing of application:

According to phenology: apply up to 4 times at 10%, 40%, 70% and 90% open blossoms (BBCH 61-69).

According to a forecast system (e.g. Maryblyt, RIMPRO): Apply a maximum number of 5 times when models indicate risk for infection.

Application preferably in the evening. The suspension should be stirred during application.

### **COMPATIBILITY:**

The active ingredient, *Aureobasidium pullulans*, is sensitive to fungicides. Do not tank mix with other fungicides.

### **INTEGRATED PEST MANAGEMENT (IPM):**

Integrate BLOSSOM PROTECT™ into an overall pest management strategy. Follow practices known to reduce disease development. Observe forecast system. A sufficient reduction of fire

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blight is not expected in all cases. Therefore, if necessary, monitor the infestation and do pruning. Consult local agricultural authorities for specific IPM strategies developed for your crop(s) and location.

**CROP TOLERANCE:**

Enhanced russetting of fruits from sensitive apple and pear varieties is possible.

Not all ornamental plant species belonging to the Rosaceae family have been tested for tolerance to BLOSSOM PROTECT. Users should test the product on a small portion of the plant before applying to the entire crop if crop tolerance is a concern for these plants.

**PREHARVEST INTERVAL:**

Not applicable