

2021-0530
2021-02-25

Container label

PROBLAD BIOFUNGICIDE

A fungicide for the control or suppression of powdery mildew, gray mold, and blossom blight in grapes, strawberry, fruiting vegetables (eggplant (field and greenhouse), ground cherry (field only), pepino (field and greenhouse), pepper including bell, chili, cooking, pimento and sweet (field and greenhouse), tomatillo (field and greenhouse), tomato (field and greenhouse)) stone fruit (apricot, cherry, nectarine, peach, plum, prune) and almond and lowbush blueberry

AGRICULTURAL

SUSPENSION

ACTIVE INGREDIENT: BLAD polypeptide 20%

REGISTRATION NO: 34050 PEST CONTROL PRODUCTS ACT

CAUTION – EYE AND SKIN IRRITANT

READ THE LABEL AND BOOKLET BEFORE USING
KEEP OUT OF THE REACH OF CHILDREN

NET CONTENTS: 1-120 Litres

Date of Manufacture:

Manufactured by:

CEV, S.A.
Zona Industrial de Cantanhede, LT 120
3060-197 Cantanhede
Portugal

Distributed by:
N. M. Bartlett Inc.
4509 Bartlett Road
Beamsville, Ontario L0R 1B1
905-563-8261

DIRECTIONS: See booklet for complete set of Directions for Use.

PRECAUTIONS:

KEEP OUT OF THE REACH OF CHILDREN. CAUTION: May irritate eyes and skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse. Wear the appropriate Personal Protective Equipment (PPE).

Wash hands before drinking, eating, chewing gum, using tobacco or using the toilet. Remove PPE and clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 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.

Mixers, loaders and applicators must wear a long-sleeved shirt, long pants, chemical-resistant gloves, shoes, socks, and protective eyewear when handling **PROBLAD BIOFUNGICIDE**.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools, and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

ENVIRONMENTAL PRECAUTIONS:

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.

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 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.

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.

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

TOXICOLOGICAL INFORMATION: Treat symptomatically.

STORAGE

Keep in original container during storage. Store product in a cool, dry, well-ventilated place. To prevent contamination store this product away from food or feed.

DISPOSAL:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container.
2. Add the rinsings to the spray mixture in the tank.
3. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

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.

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.

Booklet

PROBLAD BIOFUNGICIDE

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DIRECTIONS FOR USE:

GENERAL INFORMATION

PROBLAD BIOFUNGICIDE is a broad spectrum, preventive and contact biofungicide with penetration properties. It is formulated as a suspension concentrate and contains the active ingredient BLAD polypeptide, which degrades chitin in fungal cell walls. **PROBLAD BIOFUNGICIDE** controls or suppresses listed plant diseases. It may be applied as a foliar spray in alternating spray programs with other registered pesticides. **PROBLAD BIOFUNGICIDE** may be applied with spray equipment commonly used for making ground applications.

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** allow effluent or runoff from greenhouses or mushroom houses containing this product to enter lakes, streams, ponds, or other waters.

Preparation of the Spray Solution: Ensure the spray tank is clean and free of residues from previous spray treatments. Fill the spray tank $\frac{3}{4}$ full with clean water. Shake the container and pour the required amount of **PROBLAD BIOFUNGICIDE** into the sprayer tank while the tank agitation system is operating. Add specified amount of **PROBLAD BIOFUNGICIDE** while filling with the appropriate amount of water into the spray tank. Maintain agitation. Do not store the mixture overnight.

Spray Volume: Apply **PROBLAD BIOFUNGICIDE** as noted in the application instruction table for each crop or crop grouping. Increase spray volume as crop growth increases to ensure thorough coverage of the foliage and fruit. Check equipment calibration frequently. Complete coverage and uniform application are essential for the most effective results, especially when lower spray volumes are applied.

ORCHARD AND VINEYARD CROPS: Airblast sprayer

To achieve optimum pest control, it is important to obtain thorough and uniform spray coverage of the plant. Choose a finished spray volume appropriate for the size of tree or vine and amount of foliage that will provide thorough coverage throughout the canopy. For certain pests, also follow recommendations listed under specific crop directions. Within the rate range, use the higher rate for heavy infestations or dense foliage. The specific length of residual control depends on environmental factors, plant growth, dosage rate, and degree of disease infestation.

PROBLAD BIOFUNGICIDE may be mixed with foliar fertilizers, provided that the fertilizer is added after **PROBLAD BIOFUNGICIDE** has been diluted to the recommended field application.

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or

increased host crop injury. The user should contact N. M. Bartlett Inc. at 905-563-8261 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by N. M. Bartlett Inc.

Pre-Harvest Interval: **PROBLAD BIOFUNGICIDE** can be applied up to and during the day of harvest.

DO NOT apply using aerial application equipment.

USE DIRECTIONS (Applications, Rates, Timings)

GRAPE:

| APPLICATION INSTRUCTIONS | | |
|---------------------------------|--|-------------------------------------|
| CROP | DISEASE | RATE OF PROBLAD BIOFUNGICIDE |
| GRAPE | Control of Botrytis bunch rot / gray mold (<i>Botrytis cinerea</i>) Suppression of Powdery mildew (<i>Erysiphe necator</i>) | 1.5-3.3 L/ha |

GENERAL:

Apply in a minimum of 375 litres of spray solution per hectare. Increase spray volume as vine growth increases in order to provide thorough coverage of vines and fruit for optimum disease control or suppression. The rates on the **PROBLAD BIOFUNGICIDE** label reflect the amount of product that should be applied uniformly over a hectare of ground on a broadcast basis.

Powdery Mildew

Apply in a preventive spray schedule. Make the first application of **PROBLAD BIOFUNGICIDE** before bloom and continue applications every 7 to 10 days. Under conditions of moderate to severe disease pressure, use the higher labeled rate and shorter interval.

Botrytis bunch rot / gray mold

For control of Botrytis bunch rot apply **PROBLAD BIOFUNGICIDE** prior to onset of disease development when conditions favor Botrytis development during early bloom, bunch pre-closure, veraison and ripening up to the harvest day.

PROBLAD BIOFUNGICIDE requires two to four hours drying time on plant foliage for the active ingredient to absorb into the plant tissue before rain or irrigation occurs. If, during the next 12 hours it rains significantly, a new application will be needed during the next 4 days.

RESTRICTIONS:

- Do not make more than five foliar applications of **PROBLAD BIOFUNGICIDE** per growing season.
- Do not make more than two sequential applications of **PROBLAD BIOFUNGICIDE** before alternating to a registered fungicide with a different mode of action.
- **PROBLAD BIOFUNGICIDE** may be applied up to and including the day of harvest.

STRAWBERRY

APPLICATION INSTRUCTIONS

| CROP | DISEASE | RATE OF PROBLAD BIOFUNGICIDE |
|---------------------------------|---|-------------------------------------|
| Field and greenhouse STRAWBERRY | Control of Botrytis gray mold (<i>Botrytis cinerea</i>) Suppression of Powdery mildew (<i>Sphaerotheca aphanis</i> syn <i>S. macularis</i>). | 1.5-3.3 L/ha |

GENERAL:

Begin applications of **PROBLAD BIOFUNGICIDE** at early bloom and continue on a 7 to 10-day interval if conditions continue to favor disease development, in the field or greenhouse. Under conditions of moderate to severe disease pressure, use the higher labeled rate and shorter interval. For field and greenhouse strawberry: apply in a minimum of 450 litres of spray solution per hectare with conventional ground application equipment except when using an electrostatic sprayer where a minimum of 100 litres of spray solution may be used. Apply using backpack, boom, or sprinkler equipment in the greenhouse. Thorough coverage is important for optimum disease control or suppression.

PROBLAD BIOFUNGICIDE requires two to four hours drying time on plant foliage for the active ingredient to absorb into the plant tissue before rain or irrigation occurs. If, during the next 12 hours it rains significantly, a new application will be needed during the next 4 days.

RESTRICTIONS:

- Do not make more than five foliar applications of **PROBLAD BIOFUNGICIDE** per growing season (for field strawberry) or per crop cycle (for greenhouse strawberry).
- Do not make more than two sequential applications of **PROBLAD BIOFUNGICIDE** before alternating to a registered fungicide with a different mode of action.
- **PROBLAD BIOFUNGICIDE** may be applied up to and including the day of harvest.

| FRUITING VEGETABLES | | |
|--|---|--------------|
| APPLICATION INSTRUCTIONS | | |
| CROP | DISEASE | RATE |
| Fruiting vegetables: eggplant (field and greenhouse); ground cherry (field only) pepino (field and greenhouse), pepper including bell, chili, cooking, pimento and sweet (field and greenhouse), tomatillo (field and greenhouse), tomato (field and greenhouse) | Control of Botrytis gray mold (<i>Botrytis cinerea</i>) | 1.5-3.3 L/ha |
| <p>GENERAL: Begin applications of PROBLAD BIOFUNGICIDE prior to onset of disease development and continue on a 7 to 10-day interval to maintain disease control. Under conditions of moderate to severe disease pressure, use the higher labeled rate and shorter interval. Apply the specified rate of PROBLAD BIOFUNGICIDE as a foliar spray in a minimum of 200 litres or more of water per hectare to assure thorough coverage of the plants. Apply using backpack, boom, or sprinkler equipment in the greenhouse.</p> <p>PROBLAD BIOFUNGICIDE requires two to four hours drying time on plant foliage for the active ingredient to absorb into the plant tissue before rain or irrigation occurs. If, during the next 12 hours it rains significantly, a new application will be needed during the next 4 days.</p> <p>RESTRICTIONS:</p> <ul style="list-style-type: none"> - Do not make more than five foliar applications of PROBLAD BIOFUNGICIDE per growing season (for outdoor uses) or per crop cycle (for greenhouse uses). - Do not make more than two sequential applications of PROBLAD BIOFUNGICIDE before alternating to a registered fungicide with a different mode of action. - PROBLAD BIOFUNGICIDE may be applied up to and including the day of harvest. | | |

STONE FRUIT & ALMOND

| APPLICATION INSTRUCTIONS | | |
|--|--|------------------------------|
| CROP | DISEASE | RATE OF PROBLAD BIOFUNGICIDE |
| Almond Apricot Cherry Nectarine Peach Plum Prune | Suppression of Blossom blight (<i>Monilinia fructigena</i> , <i>M. laxa</i>) | 1.5-3.3 L/ha |
| <p>GENERAL: Apply PROBLAD BIOFUNGICIDE in a minimum spray volume of 450 litres per hectare. Use higher rates and shorter intervals for varieties that are highly susceptible to the indicated disease or when moderate to severe disease conditions exist.</p> <p>Stone Fruit and Almond: For the suppression of blossom blight, begin application at pink, white or red bud depending on the crop. Make a second application at full bloom and if conditions remain favorable for disease, make another application at petal fall.</p> <p>PROBLAD BIOFUNGICIDE requires two to four hours drying time on plant foliage for the active ingredient to absorb into the plant tissue before rain or irrigation occurs. If, during the next 12 hours it rains significantly, a new application will be needed during the next 4 days.</p> <p>RESTRICTIONS:</p> <ul style="list-style-type: none">- Do not make more than three foliar applications of PROBLAD BIOFUNGICIDE per growing season.- Do not make more than two sequential applications of PROBLAD BIOFUNGICIDE before alternating to a registered fungicide with a different mode of action.- PROBLAD BIOFUNGICIDE may be applied up to and including the day of harvest. | | |

| LOWBUSH BLUEBERRY | | |
|---------------------------------|--|--------------|
| APPLICATION INSTRUCTIONS | | |
| CROP | DISEASE | RATE |
| Lowbush blueberry | Control of Botrytis blight (<i>Botrytis cinerea</i>) | 1.5-3.3 L/ha |

GENERAL:
Begin applications of **PROBLAD BIOFUNGICIDE** at early bloom and continue on a 7 to 10-day interval if conditions continue to favor disease development. Under conditions of moderate to severe disease pressure, use the higher labeled rate and shorter interval. Apply in a minimum of 450 litres of spray solution per hectare with conventional ground application equipment. Thorough coverage is important for optimum disease control.

PROBLAD BIOFUNGICIDE requires two to four hours drying time on plant foliage for the active ingredient to absorb into the plant tissue before rain or irrigation occurs. If, during the next 12 hours it rains significantly, a new application will be needed during the next 4 days.

RESTRICTIONS:

- Do not make more than five foliar applications of **PROBLAD BIOFUNGICIDE** per growing season.
- Do not make more than two sequential applications of **PROBLAD BIOFUNGICIDE** before alternating to a registered fungicide with a different mode of action.
- **PROBLAD BIOFUNGICIDE** may be applied up to and including the day of harvest.

PRECAUTIONS:

KEEP OUT OF THE REACH OF CHILDREN. CAUTION: May irritate eyes and skin.

Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse. Wear the appropriate Personal Protective Equipment (PPE).

Wash hands before drinking, eating, chewing gum, using tobacco or using the toilet.

Remove PPE and clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 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.

Mixers, loaders and applicators must wear a long-sleeved shirt, long pants, chemical-resistant gloves, shoes, socks, and protective eyewear when handling **PROBLAD BIOFUNGICIDE**.

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ENVIRONMENTAL PRECAUTIONS:

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.

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 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.

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.

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

TOXICOLOGICAL INFORMATION: Treat symptomatically.

STORAGE

Keep in original container during storage. Store product in a cool, dry, well-ventilated place. To prevent contamination store this product away from food or feed.

DISPOSAL:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

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