

2022-0990
2024-04-09

Container label

GROUP

BM 01

FUNGICIDE

PROBLAD

A fungicide for the control or suppression of powdery mildew, grey mold, and brown rot 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, lowbush and highbush blueberry, outdoor and greenhouse ornamentals and caneberries (crop subgroup 13-07A).

AGRICULTURAL

SUSPENSION

ACTIVE INGREDIENT: BLAD polypeptide 20%

REGISTRATION NO: 31782 PEST CONTROL PRODUCTS ACT

CAUTION – EYE AND SKIN IRRITANT

READ THE LABEL AND LEAFLET 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

Agent

Nailor Regulatory Consulting Inc.

935 Rosinke Drive

Kincardine, Ontario, Canada, N2Z 2X3

1-519-829-5422

DIRECTIONS: See leaflet 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**.

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

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

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. Add the rinsings to the spray mixture in the tank.
2. 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/territorial requirements.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial 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.

Leaflet

GROUP

BM 01

FUNGICIDE

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DIRECTIONS FOR USE:

GENERAL INFORMATION

PROBLAD is a broad spectrum, preventive biofungicide with penetration properties. It is formulated as a suspension concentrate and contains the active ingredient BLAD polypeptide. The BLAD protein structure is the unique and driving force behind the antifungal activity of **PROBLAD**. It is a contact product which presents a multi-site Mode of Action (MOA) with a very low probability of resistance developing over time. This MOA is an excellent fit into current, standard fungicide programs as an effective, resistance management tool for use in IPM programs. **PROBLAD** stands apart from existing products with its own biological mode of action FRAC Group, BM 01 as a truly novel MOA. **PROBLAD** controls or suppresses listed plant diseases. It may be applied as a foliar spray alone, in alternating spray programs or in tank mixes with other registered pesticides. **PROBLAD** 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 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** into the sprayer tank while the tank agitation system is operating. Add specified amount of **PROBLAD** while filling with the appropriate amount of water into the spray tank. Maintain agitation. It is recommended that the spray solution has a pH above 6. Adjust pH if necessary. Do not store the mixture overnight.

Spray Volume: Apply **PROBLAD** 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 may be mixed with foliar fertilizers, provided that the fertilizer is added after

PROBLAD has been diluted to the recommended field application.

TANK MIXING:

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in reduced pesticide efficacy or increased host crop injury. The user should contact CEV, S.A. at 519-829-5422 for information before applying any tank mix that is not specifically recommended on this label.

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

Integrated Pest Management (IPM): Integrate **PROBLAD** into a disease management strategy that follows practices known to reduce disease development and prevent fungicide resistance. Consult local agricultural advisors for specific IPM strategies meeting the specific crop and location.

DO NOT APPLY BY AIR

USE DIRECTIONS (Applications, Rates, Timings):

Restrictions:

- **PROBLAD** requires two to four hours drying time on plant foliage for the active ingredient to fix on 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. Do not make more than five foliar applications of **PROBLAD** per year (for field crops) or per crop cycle (for greenhouse crops).
- Do not make more than two sequential applications of **PROBLAD** before alternating to a registered fungicide with a different mode of action.
- **PROBLAD** may be applied up to and including the day of harvest.

GRAPE

APPLICATION INSTRUCTIONS		
CROP	DISEASE	RATE OF PROBLAD

GRAPE	Control of Botrytis bunch rot / grey mold (<i>Botrytis cinerea</i>) Control of Powdery mildew (<i>Erysiphe necator</i>)	1.5-3.3 L/ha
<p>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. The rates on the PROBLAD label reflect the amount of product that should be applied uniformly over a hectare of ground on a broadcast basis. Thorough coverage is important for optimum disease control.</p> <p>Powdery Mildew Apply in a preventive spray schedule. Make the first application of PROBLAD 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.</p> <p>Botrytis bunch rot / grey mold For control of Botrytis bunch rot apply PROBLAD 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.</p>		

STRAWBERRY

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

GENERAL:

Begin applications of **PROBLAD** 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.

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 grey mold (<i>Botrytis cinerea</i>)	1.5-3.3 L/ha

GENERAL:

Begin applications of **PROBLAD** 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** 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. Thorough coverage is important for optimum disease control.

STONE FRUIT & ALMOND

APPLICATION INSTRUCTIONS		
CROP	DISEASE	RATE OF PROBLAD
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
	Suppression of Brown Rot (<i>Monilinia fructigena</i> , <i>M. laxa</i>)	1.5 L/ha
	Control of Brown Rot (<i>Monilinia fructigena</i> , <i>M. laxa</i>)	2.0-3.3 L/ha
<p>GENERAL: Apply PROBLAD in a minimum spray volume of 450 litres per hectare.</p> <p>Blossom blight phase: begin application prior to disease development 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. Under conditions of weather favoring severe disease pressure apply the higher labeled rate.</p> <p>Brown rot phase: Make applications during the month before harvest on a 7 to 10- day preventive schedule when conditions favor disease development. Under conditions of weather favoring severe disease pressure apply the higher labeled rate and shorter intervals</p>		

OUTDOOR AND GREENHOUSE ORNAMENTALS

APPLICATION INSTRUCTIONS		
CROP	DISEASE	RATE OF PROBLAD
Outdoor and Greenhouse Ornamentals	Control of Botrytis grey mold (<i>Botrytis cinerea</i>)	1.5-3.3 L/ha

GENERAL:

Apply **PROBLAD** on nursery stock (bedding plants and flowering plants described above). Good coverage and wetting of the foliage is necessary. Spray to run off.

In the field apply in 150- 300 litres of a spray solution per hectare depending upon the stage of growth. Use higher rates of water and **PROBLAD** as the plants grow and develop more foliage. Apply using backpack, boom, or sprinkler equipment in the greenhouse.

Apply **PROBLAD** preventatively or when disease symptoms first appear. Repeat applications in 7- to 10 day intervals depending upon crop growth and disease pressure. Higher rates and shorter intervals should be used when disease pressure reaches moderate levels.

PROBLAD has not been tested on all ornamental species and should be tested on a small scale for potential phytotoxicity before using for commercial scale production.

LOWBUSH AND Highbush BLUEBERRY**APPLICATION INSTRUCTIONS**

CROP	DISEASE	RATE
Lowbush and Highbush blueberry	Control of Botrytis blight (<i>Botrytis cinerea</i>)	1.5-3.3 L/ha

GENERAL:

Begin applications of **PROBLAD** 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. Increase spray volume as vine growth increases in order to provide thorough coverage of vines and fruit for optimum disease control.

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than CEV, S.A. under the User Requested Minor Use Label Expansion program. For these uses, CEV, S.A. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

GREENHOUSE ORNAMENTALS (INCLUDING CUT FLOWERS, PERENNIALS AND ANNUALS)**APPLICATION INSTRUCTIONS**

CROP	DISEASE	RATE OF PROBLAD
Greenhouse grown ornamentals (including cut	Suppression of powdery mildew (<i>Erysiphe</i> spp.,	1.5-3.3 L/ha

flowers, perennials and annuals)	<i>Podosphaera</i> spp. and <i>Golovinomyces asterum</i>)	
<p>GENERAL: Apply PROBLAD nursery stock (bedding plants and flowering plants described above). Good coverage and wetting of the foliage is necessary. Spray to run off.</p> <p>Apply in a minimum of 375 L/ha. Use higher rates of water as the plants grow and develop more foliage to provide thorough coverage.</p> <p>Apply PROBLAD preventatively or when disease symptoms first appear. Repeat applications in 7- to 10 day intervals depending upon crop growth and disease pressure. Higher rates and shorter intervals should be used when disease pressure reaches moderate levels.</p> <p>PROBLAD has not been tested on all ornamental species and should be tested on a small scale for commercial scale production.</p> <p>PROBLAD is a contact fungicide with penetration properties.</p> <p>PROBLAD 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.</p>		
CANEBERRY (CROP SUBGROUP 13-07A)		
CROP	DISEASE	RATE OF PROBLAD
CANEBERRIES (blackberry; loganberry; raspberry, black and red; wild raspberry; cultivars, varieties and/or hybrids of these)	Control of Botrytis fruit rot (<i>Botrytis cinerea</i>)	2.0-3.3 L/ha
<p>GENERAL: Apply in a minimum of 800 litres of spray solution per hectare. Increase spray volume as vine growth increases in order to provide thorough coverage of canes and fruit for optimum disease control. The rates on the PROBLAD label reflect the amount of product that should be applied uniformly over a hectare of ground on a broadcast basis.</p> <p>The first application is made preventively or at early onset of disease and the subsequent applications are made at a 7- to 10-day interval.</p> <p>PROBLAD 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>		

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**.

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:

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

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. Add the rinsings to the spray mixture in the tank.
2. 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/territorial requirements.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial 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.