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26-AUG-2013



GROUP	28	FUNGICIDE
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**NET CONTENTS:
1 LITRE**

PREVICUR® N

Aqueous Solution Fungicide

For Control of Pythium Root Diseases in Greenhouse Tomato, Greenhouse Cucumbers, Greenhouse Eggplants and Greenhouse Peppers and on Outdoor Grown and Greenhouse Ornamentals. For Suppression of Downy Mildew in Greenhouse Cucumber.

COMMERCIAL



DANGER – CORROSIVE TO EYES

**REGISTRATION NUMBER : 26288
PEST CONTROL PRODUCTS ACT**

GUARANTEE :

Propamocarb hydrochloride
722 g/L

Bayer CropScience Inc.*
Suite 200, 160 Quarry Park Blvd. S.E.
Calgary, Alberta T2C 3G3
Telephone: 1-888-283-6847

*Bayer Environmental Science
A Division of Bayer CropScience

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

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS. Corrosive. Causes eye damage. Harmful if swallowed or absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, or smoking. If product comes in contact with clothing, remove all contaminated clothing, wash skin with soap and water and dress in clean clothing. Launder applicator clothing separate from other laundry. If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at www.croplife.ca.

Protective Clothing and Equipment: During ALL activities, workers must wear long pants, long-sleeved shirts and boots. During mixing, loading, application, and cleanup of spray solution and when handling freshly treated soil medium workers must ALSO wear chemical resistant gloves and safety goggles or a face shield.

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

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 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 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.

TOXICOLOGICAL INFORMATION: Medical Personnel should contact Bayer's medical information services, toll-free: 1-800-334-7577. **Note To Physician:** Probable mucosal damage may contraindicate the use of gastric lavage. Treat symptomatically.

ENVIRONMENTAL HAZARDS: This product is toxic to fish, aquatic invertebrates, and marine/estuarine organisms. DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

STORAGE: Do not contaminate water, food, or feed by storage or disposal. STORE IN A COOL PLACE, NOT BELOW 0°C OR ABOVE 30°C. If stored for 1 year or longer, shake well before using. Store the tightly closed container away from feeds, seeds, fertilizer, plants and foodstuffs. Do not use or store in or around the home. Keep in original container during **storage**. In case of fire, leaking or damaged containers, call toll free 1-800-667-5959

Recyclable Container 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.

Returnable Container Disposal:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

Disposal of Unused, Unwanted Product:

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 cleanup 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. The user assumes the risk to persons or property that arises from any such use of this product.

PREVICUR trademark applied for.

062013

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PREVICUR N

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For More Information, Contact:

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GENERAL INFORMATION

Section 1: The Product

- For greenhouse applications on tomato, cucumber, eggplant and peppers and ornamentals, use PREVICUR[®] N Fungicide in rotation with other effective labelled fungicides if available to control diseases during plant propagation and greenhouse production.
- PREVICUR[®] N Fungicide is a fungicide with protectant and limited systemic activity for the control of *Pythium spp* soil borne diseases. In moist soil, the product is absorbed by the roots and translocated to the aerial parts of the plants, thereby protecting roots, bulbs, seedlings and cuttings from disease infection.
- PREVICUR[®] N Fungicide suppresses downy mildew in greenhouse cucumbers when applied as a foliar spray.

SAFETY AND HANDLING

Section 2: Precautions, Protective Clothing and Equipment

PRECAUTIONS:

- **KEEP OUT OF REACH OF CHILDREN**
- **HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS**
- Corrosive
- Causes eye damage.
- Harmful if swallowed or absorbed through skin.
- Do not get in eyes or on clothing.
- Avoid contact with skin.
- Avoid breathing spray mist.
- Wash thoroughly with soap and water after handling and before eating, drinking, or smoking.
- If product comes in contact with clothing, remove all contaminated clothing, wash skin with soap and water and dress in clean clothing. Launder applicator clothing separate from other laundry.
- If this pest control product is to be used on a commodity that may be exported to the US and you require information on acceptable residue levels in the US, visit CropLife Canada's web site at: www.croplife.ca.

Protective Clothing and Equipment:

- During ALL activities, workers must wear long pants, long-sleeved shirts and boots.
- During mixing, loading, application, and cleanup of spray solution and when handling freshly treated soil medium workers must ALSO wear chemical resistant gloves and safety goggles or a face shield.

Section 3: First Aid and Toxicological Information

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

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 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 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.

TOXICOLOGICAL INFORMATION:

Medical personnel should contact Bayer's medical information services, toll-free: 1-800-334-7577.

Note To Physician: Probable mucosal damage may contraindicate the use of gastric lavage. Treat symptomatically.

Section 4: ENVIRONMENTAL HAZARDS

- This product is toxic to fish, aquatic invertebrates, and marine/estuarine organisms. DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.
- To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.
- DO NOT contaminate water when disposing of equipment washwaters.

Section 5: Storage

- Do not contaminate water, food, or feed by storage or disposal.
- STORE IN A COOL PLACE, NOT BELOW 0° OR ABOVE 30°
- If stored for 1 year or longer, shake well before using.
- Store the tightly closed container away from feeds, seeds, fertiliser, plants and foodstuffs.
- Do not use or store in or around the home.
- Keep in original container during storage.

- In case of fire, leaking or damaged containers, call toll free 1-800-667-5959.

Section 6: Disposal

Recyclable Container 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 requirements.

Returnable Container Disposal:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

Disposal of Unused, Unwanted Product:

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 cleanup of spills.

DIRECTIONS FOR USE

DO NOT APPLY BY AIR.

Section 7: Crop, Disease, Rate, Timing, Minor Uses

GREENHOUSE USE –TOMATO, CUCUMBER, PEPPER AND EGGPLANTS

It is recommended to test PREVICUR N on a small scale basis before full commercial use.

PREVICUR N is recommended for control of root rot and damping-off caused by *Pythium* spp. on greenhouse tomato, greenhouse cucumber, greenhouse peppers and greenhouse eggplant. PREVICUR N requires no agitation after initial mixing. Stock solutions of PREVICUR N should be used within one day of mixing. Do not mix with other products. Prevent intense sunlight after application.

CROP: greenhouse tomato, greenhouse cucumber, greenhouse peppers and greenhouse eggplant
DISEASE: root rot and damping-off caused by *Pythium* spp.

RECOMMENDATION:

At seeding or during propagation stage (before transplanting): Make first application to growing medium at seeding or during propagation stage. A second application may be made 7 - 10 days later under conditions that promote high disease pressure.

After transplanting: Applications may be made after transplanting on 7 - 10 days intervals.

Maximum number of applications: 4 times per crop cycle. Do not apply more than 2 seeding/seedling applications per crop cycle. Do not apply more than 2 after transplanting applications per crop cycle.

RATE: Mix 10 ml PREVICUR N in 10 litres of water and apply this solution at 100-200 ml of solution per plant through drench directed to the rooting medium. The higher rate should be used for second and third application.

MINOR USES			
NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS (BELOW): The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than Bayer CropScience and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Bayer CropScience itself makes no representation or warranty with respect to performance (efficacy) or crop tolerance (phytotoxicity) claims for this product when used on the crops listed below. Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold Bayer CropScience harmless from any claims based on efficacy or phytotoxicity in connection with the uses described below.			
CROP	DISEASE	RATE	TIMING
Greenhouse cucumber	SUPPRESSION: Downy Mildew (<i>Pseudoperonospora cubensis</i>)	1.5 L/ha	<p>Foliar Treatment: Apply when plants begin to vine, or when disease threatens. Make foliar applications when conditions first become favorable for disease development (for example, high moisture and moderate temperature), but before infection. Make sure the entire cucumber leaf is covered with spray solution (underside of leaf must have good spray coverage) until runoff.</p> <p>Make a maximum of 1 application of PREVICUR N fungicide per crop cycle.</p> <p>Apply other labeled fungicides 7 - 14 days later as necessary.</p> <p>Do not treat within 2 days of harvest.</p> <p>Do not re-enter the treated area within 12 hours of application.</p> <p>Refer to other sections of this label for additional application instructions and/or use precautions.</p>

OUTDOOR GROWN AND GREENHOUSES ORNAMENTAL: Azalea, Rhododendron, Holly, Geranium, Poinsetta, African Violet, Gerbera, Cyclamen, and Snapdragon

FOR CONTROL OF *PYTHIUM* spp. ROOT ROT

APPLICATION RATE: Apply a single treatment of PREVICUR N to ornamentals at potting for Pythium root rot, 1.5 ml / L of water, at 100ml of solution/10 cm pot. Two repeat applications can be made 21-40 days apart if disease pressure warrants.

FOR CONTROL OF *PHYTOPHTHORA* spp. ROOT ROT: APPLICATION RATE : 1.5 ml PREVICUR N / L of water. Use 4.9 L of mixed solution for every 1m² of surface area. Two repeat applications can be made 21-40 days if disease pressure warrants.

PREVICUR N does not cause phytotoxic symptoms to Poinsettia, Geranium. It is recommended that users do a small scale phytotoxicity test before large scale application.

PREVICUR N should be applied as a drench to the root zone of the plant in such a way that plant foliage does not get wet. For Pythium control, apply at the labelled rates either by drip irrigation directly to the soil surface or through sub-irrigation. For Phytophthora, apply through drip irrigation at the labelled rate.

Section 8: Resistance Management

For resistance management, please note that PREVICUR N contains a Group 28 fungicide. Any fungal population may contain individuals naturally resistant to PREVICUR N and other Group 28 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed. To delay fungicide/bactericide resistance:

- Where possible, rotate the use of PREVICUR N or other Group 28 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicide from a different group when such use is permitted.
- Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.
- Monitor treated fungal populations for resistance development.
- If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information and to report suspected resistance, contact Bayer CropScience representatives at 1--888-283-6847 or at www.bayeres.ca.

Section 9: Application Precautions and Re-entry Restrictions

APPLICATION PRECAUTIONS:

- Although PREVICUR N has been used on a wide range of crops without crop injury it is recommended that a few plants be test treated before widespread use.
- Occasional slight damage may occur following overhead drenching of recently planted seedlings. The effect is usually short-lived, but with this type of application it is advisable to wash off the PREVICUR N solution with pure water after application.
- Do not apply more than the indicated maximum number of applications per crop cycle specified for each crop and use pattern in the DIRECTIONS FOR USE, Section 7.
- DO NOT apply within 2 days of harvest for greenhouse cucumbers and eggplants or 1 day of harvest for greenhouse tomatoes and greenhouse peppers.
- It is a violation of the Pest Control Products Act to use this product in a manner inconsistent with its labelling. 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.
- DO NOT allow spray mixture to remain in the tank overnight.

Re-Entry Restrictions

For Soil Directed Applications to Ornamentals:

DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours. This worker protection restriction provides for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval.

For Drench Applications: This worker protection restriction allows workers to enter the treated areas following application provided there will be no contact with any treated foliage. PPE required for early entry to treated areas that is permitted under this worker protection restriction and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material.

- Shoes plus socks

GREENHOUSE USE – TOMATO, CUCUMBER, PEPPER and EGGPLANT

Do not re-enter the treated area within 12 hours of application

Section 10: Mixing Instructions

- Add one-half of the required amount of water to the spray or mixing tank and start agitation.

- Add the required quantity of PREVICUR N to the water and complete filling with water to the required total volume.
- Agitate thoroughly and spray out immediately.

Note: Undiluted PREVICUR N is corrosive to all metals except stainless steel. Rinse all metal application equipment thoroughly after use.

Section 11: Notices

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. The user assumes the risk to persons or property that arises from any such use of this product.

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