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2009-5182

<b>GROUP</b>	<b>U</b>	<b>FUNGICIDE</b>
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NET CONTENTS:  
1 LITRE

**PREVICUR N<sup>®</sup>**

Aqueous Solution Fungicide

For Control of Pythium Root Diseases in Greenhouse Tomato, Greenhouse Cucumbers  
and Greenhouse Peppers and on Outdoor Grown and Greenhouse Ornamentals

COMMERCIAL

TRIPLE RINSE [symbol]

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, AB, T2C 3G3  
Telephone: 1-888-283-6847

\*Bayer Environmental Science  
A Division of Bayer CropScience

READ LABEL AND ATTACHED BROCHURE 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](http://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.

**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. DO NOT contaminate water when disposing of equipment washwaters.

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. 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.

**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.

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**For Control of Pythium Root Diseases in Greenhouse Tomato, Greenhouse Cucumbers and  
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**GUARANTEE :**  
Propamocarb hydrochloride  
722 g/L

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## **PREVICUR N Fungicide**

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### **For More Information, Contact:**

**Bayer CropScience Canada Inc.\***  
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## GENERAL INFORMATION

### Section 1: The Product

- For greenhouse applications on tomato, cucumber and peppers and ornamentals, use PREVICUR<sup>®</sup> N Fungicide in rotation with other effective labelled fungicides if available to control diseases caused by *Pythium* spp. during plant propagation and greenhouse production.
- PREVICUR<sup>®</sup> 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.

## 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](http://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.

### **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

### Section 7: Crop, Disease, Rate, Timing

#### GREENHOUSE USE –TOMATO, CUCUMBER and PEPPER

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

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

**CROP:** greenhouse tomato, greenhouse cucumber and greenhouse peppers

**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 if pressure warrants.

**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.

**OUTDOOR GROWN AND GREENHOUSES ORNAMENTAL:** Rose, 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 Fungicide to ornamentals at potting for Pythium root rot, 1.5ml / 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 : 1.5ml PREVICUR N Fungicide/ L of water. Use 4.9 L of mixed solution for every 1m<sup>2</sup> of surface area. Two repeat applications can be made 21-40 days if disease pressure warrants.

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

PREVICUR N Fungicide 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 Fungicide contains a Group U fungicide. Any fungal population may contain individuals naturally resistant to PREVICUR N Fungicide and other Group U 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 Fungicide or other Group U fungicides with different groups that control the same pathogens. Use a maximum of four applications of PREVICUR N Fungicide per season.
- 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.bayercropscience.ca](http://www.bayercropscience.ca).

## Section 9: Application Precautions and Re-entry Restrictions

### APPLICATION PRECAUTIONS:

- Although PREVICUR N Fungicide 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 Fungicide solution with pure water after application.
- DO NOT make more than 4 applications of PREVICUR N Fungicide in a single growing season.
- DO NOT apply within 2 days of harvest for greenhouse cucumbers or 5 days 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 and PEPPER

- DO NOT re-enter treated areas 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 Fungicide to the water and complete filling with water to the required total volume.
- Agitate thoroughly and spray out immediately.

**Note:** Undiluted PREVICUR N Fungicide 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.

### **FOR MORE INFORMATION CONTACT:**

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