Banol® FUNGICIDE
TURF AND ORNAMENTAL FUNGICIDE

For control of Pythium and Phytophthora
Only for Use on Golf Courses, Sod Farms, Commercially Grown Ornamentals in Greenhouses and Container-Grown Ornamentals in Nurseries
NOT FOR USE ON SOD FARMS IN ARIZONA

ACTIVE INGREDIENT:
Propamocarb hydrochloride* .............................................................. 66.5%
INERT INGREDIENTS: ................................................................. 33.5%
TOTAL .......................................................... 100.0%

*Propyl [3-(dimethylamino)propyl] carbamate monohydrochloride
Contains 6.0 lbs. active ingredient per gallon

EPA Reg. No. 432-942  EPA Est. No. 432-TX-1

KEEP OUT OF REACH OF CHILDREN
CAUTION

BACKED by BAYER

Net Contents
1 Gallon
4192957
4496263  020906D

Produced for:
Bayer Environmental Science
A Business Group of Bayer CropScience LP
2 T. W. Alexander Drive
Research Triangle Park, NC 27709
# FIRST AID

| If swallowed:          | • Call a poison control center or doctor immediately for treatment advice.  
                         | • Have person sip a glass of water if able to swallow.  
                         | • Do not induce vomiting unless told by a poison control center 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 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.  
                         | • Call a poison control center or doctor for treatment advice.  
  
| If on skin:            | • Take off contaminated clothing.  
                         | • Rinse skin immediately with plenty of water for 15 to 20 minutes.  
                         | • Call a poison control center or doctor for treatment advice.  

**NOTE TO PHYSICIAN:** Do not administer atropine unless cholinesterase inhibition is measured or patient shows distinct symptoms thereof. Oxime therapy is contraindicated. Otherwise, administration of gastric lavage or induction of vomiting followed by application of activated charcoal is the recommended treatment.

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**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

Harmful if swallowed, or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**PERSONAL PROTECTIVE EQUIPMENT**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the
instructions for category A on an EPA chemical-resistance category selection chart. Applicators and other handlers (both WPS and Non-WPS) must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride
- Shoes plus socks

Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**ENGINEERING CONTROLS STATEMENT**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4–6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS**

Users should: Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove protective clothing and equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

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 washwaters.

**USE PRECAUTIONS**

Do not graze or feed clippings from treated areas to livestock.

Do not apply this product through any type of irrigation system.
STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE: Store in original container and keep tightly closed. Store in a cool dry place.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Offer for reconditioning, if appropriate. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

GENERAL INFORMATION

BANOL® is a completely water miscible fungicide concentrate. BANOL is intended for use on turfgrass or ornamental species which are subject to Pythium Blight (Cotton Pythium, Grease Spot) or Phytophthora. It may be used after germination to control Pythium damping-off in turf, or on established turf to prevent or control Pythium Blight. BANOL does not afford broad spectrum disease control for Rhizoctonia sp. (brown patch), Sclerotinia sp. (dollar spot), or Helminthosporium sp. (leaf spot). Use a broad spectrum fungicide if these diseases coexist with Pythium Blight.

BANOL is also recommended for prevention of root rot and damping-off caused by Pythium sp. and Phytophthora sp. at all stages of ornamental propagation.

COMPATIBILITY: BANOL is compatible with benomyl, iprodione, ethazol, chloroneb, trichlorfon, triadimefon, chlorothalonil, diazinon, chlorpyrifos, and thiram.

For control of other soil borne diseases such as Rhizoctonia sp. or Fusarium sp. BANOL can be tank-mixed with benomyl or thiophanate-methyl. Use the full rate of each fungicide and follow the most restrictive directions and restrictions appearing on the labels of these products.
DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
Do not apply this product in a way that will contact workers, other persons, or pets, either directly or through drift.
Keep people and pets out of the area during application. Only protected handlers may be in the area during application.
For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.
Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.
PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:
• Coveralls over short-sleeved shirt and short pants.
• Chemical-resistant footwear plus socks.
• Chemical-resistant gloves made of any waterproof material.
• Chemical-resistant headgear for overhead exposure.
Notify workers of the application by warning them orally and by posting signs at entrances to treated areas.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.
Do not enter or allow others to enter treated areas until sprays have dried.
<table>
<thead>
<tr>
<th>TURFGRASS</th>
<th>AREA</th>
<th>Fluid Ounces BANOL</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>For Control of:</td>
<td>1,000 sq ft</td>
<td>1 1/3 - 2 fl oz in 2 - 5 gallons of water</td>
<td>Preventative Treatment: Do not apply more than a total of 12 fl oz (0.57 lb a.i.) of BANOL per 1,000 sq ft of turfgrass per year, equivalent to 25 lb ai/A/year. ESTABLISHED TURF: Apply as a preventative treatment during periods of high temperature and humidity favorable to the development of Pythium Blight.</td>
</tr>
<tr>
<td>Pythium Blight,</td>
<td></td>
<td>Curative Treatment: 3 - 4 fl oz in 2 - 5 gallons of water</td>
<td><strong>OVERSEEDED AREAS:</strong> Apply after germination to control Pythium Damping-Off.</td>
</tr>
<tr>
<td>Pythium Damping</td>
<td></td>
<td></td>
<td>RETREATMENT: Re-treat at 7-21 day intervals if conditions remain favorable for disease development. Use lower rate for the shorter interval and the higher rate for the longer interval within the application rate range. Under severe disease pressure conditions, use the highest recommended rate and shortest interval.</td>
</tr>
<tr>
<td>Off, and Root Rot on Established Turf and Overseeded Areas</td>
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</tbody>
</table>

BANOL is recommended for prevention of root rot and damping-off caused by *Pythium* sp. and *Phytophthora* sp. at all stages of turfgrass development and ornamental plant propagation, including seeding, transplanting and potting.
<table>
<thead>
<tr>
<th>ORNAMENTALS</th>
<th>Fluid Ounces BANOL</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>For Control of:</td>
<td></td>
<td>Do not use for field grown ornamentals.</td>
</tr>
<tr>
<td><em>Pythium</em> and</td>
<td></td>
<td>BANOL requires no agitation after initial mixing. Stock solutions of BANOL should be used within one week of mixing.</td>
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<tr>
<td><em>Phytophthora</em> on</td>
<td></td>
<td>BANOL does not cause phytotoxic symptoms on the listed plants when used as directed. Trials on other ornamental species should be conducted before extensive use.</td>
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<tr>
<td>Ornamental Plants:</td>
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<tr>
<td>African Violet,</td>
<td>3 fl oz per 3 fl</td>
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<tr>
<td>Ageratum, Alyssum,</td>
<td>oz per 3 fl oz</td>
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<tr>
<td>Aster, Azalea,</td>
<td>per 10 gallons of</td>
<td></td>
</tr>
<tr>
<td>Browallia, Carnation,</td>
<td>10 gallons of water</td>
<td></td>
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<tr>
<td>Celosia,</td>
<td></td>
<td></td>
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<tr>
<td>Chrysanthemum,</td>
<td></td>
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<tr>
<td>Coleus, Dahlia,</td>
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<tr>
<td>Dusty Miller,</td>
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<tr>
<td>Easter Lily,</td>
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<tr>
<td>Fenn, Geranium,</td>
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<tr>
<td>Gloxinia, Impatiens,</td>
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<tr>
<td>Lobelia, Marigold,</td>
<td></td>
<td></td>
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<tr>
<td>Pansy, Petunia,</td>
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<tr>
<td>Poinsettia,</td>
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<tr>
<td>Portulaca, Salvia,</td>
<td></td>
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</tr>
<tr>
<td>Snapdragon, Verbena,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Violet, and Vinca.</td>
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<td></td>
</tr>
<tr>
<td>Woody Ornamentals</td>
<td>2.5 fl oz per 2 fl</td>
<td>For control of <em>Phytophthora</em> sp. on woody ornamentals, drench each container at the rate of 5 quarts of solution/10 sq ft of surface. Repeat the drench treatment at 3 to 4 month intervals.</td>
</tr>
<tr>
<td></td>
<td>oz per 10 gallons</td>
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<td></td>
<td>of water</td>
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</tbody>
</table>
IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience LP. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER CROPSCIENCE LP'S ELECTION, THE REPLACEMENT OF PRODUCT.

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**FIRST AID**

If swallowed:
- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told by a poison control center 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 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

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

**NOTE TO PHYSICIAN:** Do not administer atropine unless cholinesterase inhibition is measured or patient shows distinct symptoms thereof. Atropine therapy is contraindicated. Otherwise, administration of gastrointestinal lavage or induction of vomiting followed by application of activated charcoal is the recommended treatment.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

Hazardous if swallowed, or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**ENVIRONMENTAL HAZARDS**

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 washwaters.

**USE PRECAUTIONS**

Do not graze or feed animals from treated areas to livestock.

Do not apply this product through any type of irrigation system.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**STORAGE:** Store in original container and keep tightly closed. Store in a cool dry place.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Offer for reconditioning, if applicable. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for latter use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Refer to attached leaflet for complete Directions for Use and Precautionary Statements.

**Net Contents**
1 Gallon

**Produced for:**
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2 T. W. Alexander Drive
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**ENVIRONMENTAL HAZARDS**

Do not apply directly to water, or to areas where surface water is present, or to areas where wildlife is present, including estuaries,潮水, estuaries, or any other surface waterways.

Do not contaminate water when disposing of equipment washwaters.

**USE PRECAUTIONS**

Do not graze or feed livestock from treated areas.

Do not apply this product through any type of irrigation system.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**STORAGE:** Store in original container and keep tightly closed. Store in a cool dry place.

**PESTICIDE DISPOSAL:** Wastewater resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Offer for reconditioning, if appropriate.

**Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 30 seconds. Pour rinse into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning.**

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**IN CASE OF MEDICAL EMERGENCIES OR HEALTH OR SAFETY INQUIRIES, OR IN CASE OF FIRE, LEAKING, OR DAMAGED CONTAINERS, INFORMATION MAY BE OBTAINED BY CALLING 1-800-334-7577.**

**HAVE THE PRODUCT CONTAINER OR LABEL WITH YOU WHEN CALLING A POISON CONTROL CENTER OR DOCTOR, OR GOING FOR TREATMENT.**

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