BAYER

Banol®

STATE OF HAWAII
Department of Agriculture
ACCEPTED
LICENSE NO.
9346.254

FUNGICIDE

For control of Pythium and Phytophthora

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

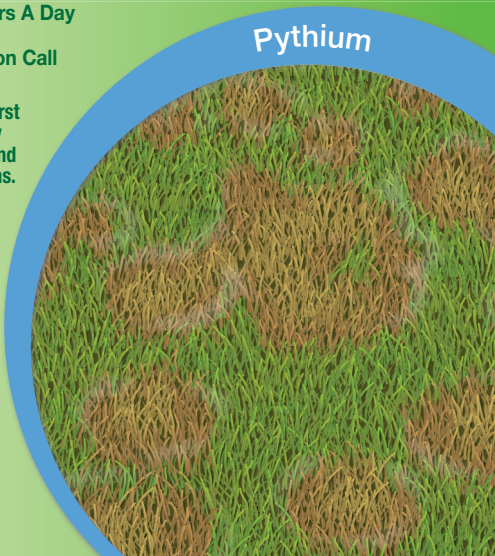
*Propyl [3-(dimethylamino)propyl] carbamate monohydrochloride
Contains 6.0 lbs. active ingredient per gallon
EPA Reg. No. 432-942

STOP - READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN

CAUTION

For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577
For PRODUCT USE Information Call 1-800-331-2867

See inside leaflet for complete First Aid Instructions, Precautionary Statements, Directions for Use and Storage and Disposal Instructions.



Net Contents
2.5 Gallons
79895402
61380122A 150112AV1

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 to by a poison control center or doctor. • Do not give anything to an unconscious person.
If in eyes:	• Hold eyes 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. • Call a poison control center 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 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. **IN CASE OF MEDICAL EMERGENCIES OR HEALTH AND 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.**	

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
- Chemical resistant apron when making dip applications

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.

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 or other persons either directly or through drift. 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 personal protective equipment and restricted entry interval. 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 • Shoes plus socks • Chemical-resistant gloves made of any waterproof material

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.

PRODUCT INFORMATION

Banol® Fungicide is a completely water miscible fungicide concentrate. Banol Fungicide is intended for use on turfgrass or ornamental species which are subject to Pythium Blight (Cottony Blight, 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 Fungicide does not afford broad spectrum disease control for *Rhizoctonia* sp. (brown patch), *Sclerotinia* sp. (dollarspot), or *Helminthosporium* sp. (leafspot). Use a broad spectrum fungicide if these diseases coexist with Pythium Blight.

Banol Fungicide is also labeled for prevention of root rot and damping-off caused by *Pythium* sp. and *Phytophthora* sp. at all stages of ornamental propagation.

COMPATIBILITY: Banol Fungicide is compatible with 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 Fungicide can be tank-mixed with thiophanate-methyl. Use the full rate of each fungicide and follow the most restrictive directions and restrictions appearing on the labels of these products.

USE RESTRICTIONS

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

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

Turfgrass and Ornamentals

Banol Fungicide is labeled 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.

TURFGRASS*	AREA	FLUID OUNCES BANOL FUNGICIDE	REMARKS
For Control of: Pythium Blight, Pythium Damping Off, and Root Rot on Established Turf and Over-seeded Areas	1,000 sq ft	***Preventative Treatment:*** 1-1/3 - 2 fl oz in 2 - 5 gallons of water ***Curative Treatment:*** 3-4 fl oz in 2-5 gallons of water	**Do not apply more than a total of 12.25 fl oz (0.57 lb ai) of Banol Fungicide 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 **OVERSEEDED AREAS:** Apply after germination to control Pythium Damping-Off. **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 labeled rate and shortest interval. ***NOT FOR USE ON SOD FARMS IN ARIZONA**

Do not use for field grown ornamentals.

Banol Fungicide requires no agitation after initial mixing. Stock solutions of Banol Fungicide must be used within one week of mixing. Banol Fungicide does not cause phytotoxic symptoms on the listed plants when used as directed. Trials on other ornamental species must be conducted before extensive use. Apply to commercially grown ornamentals in greenhouses and container grown ornamentals in nurseries by soil-directed drench only. Do not apply a soil drench to the foliage.

Use chemical resistant gloves when planting cuttings, seedlings, or seeds into the potting media that is still wet from a Banol Fungicide drench application. Do not apply more than 63 fl oz of Banol Fungicide (2.95 lb ai) per 1,000 sq ft per season.

When dipping plant roots, workers are required to use the stated personal protective equipment on this label and a chemical-resistant apron as a prudent measure.

ORNAMENTALS	FLUID OUNCES BANOL FUNGICIDE	REMARKS
For Control of: *Pythium* and *Phytophthora* on Ornamental Plants: African Violet, Ageratum, Alyssum, Aster, Azalea, Browallia, Carnation, Celosia, Chrysanthemum, Coleus, Dahlia, Dusty Miller, Easter Lily, Ferns, Geranium, Gloxinia, Impatiens, Lobelia, Marigold, Pansy, Petunia, Poinsettia, Portulaca, Salvia, Snapdragon, Verbena, Violet, and Vinca.	3 fl oz per 10 gallons of water	**Seeding:** Apply to the seeding area using 3 quarts of solution/10 sq ft. Treat before sowing of seeds requiring light and after covering of seeds requiring dark for germination. Do not make more than two applications per container per season. If a second application is needed, the minimum retreatment interval is 7 days.
	3 fl oz per 10 gallons of water	**Transplanting (Seedlings):** Apply to the transplanting area using 3 quarts of solution/10 sq ft before transplanting. Do not make more than two applications per container per season. If a second application is needed, retreat at a minimum of 7-days to 6 months depending on the plant species and cultural practice.
	2 fl oz per 10 gallons of water	**Transplanting (Cuttings):** Drench the cutting bed using 2 gallons of solution /10 sq ft before setting. Do not make more than two applications per container per season. If two applications are being made, do not exceed 31.5 fl oz of Banol Fungicide per 1000 sq ft per application. If a second application is needed, retreat at a minimum of 7-days to 6 months depending on the plant species and cultural practice.
	2 fl oz per 10 gallons of water	**Potting:** Dip bare root plants in the solution before potting. After potting drench each pot using 3.5 fl oz of solution per 4 inch pot. Do not exceed 31.5 fl oz of Banol Fungicide per 1000 sq ft per application and do not apply more than two applications per container per season. If a second application is needed, retreat at a minimum of 7-days to 6 months depending on the plant species and cultural practice.
Woody Ornamentals	2.5 fl oz per 10 gallons of water	For control of *Phytophthora* sp. on woody ornamentals, drench each container at the rate of 5 quarts of solution/10 sq ft of surface. Do not make more than two applications per container per season. If two applications are being made, do not exceed 31.5 fl oz of Banol Fungicide per 1000 sq ft per application. If a second application is needed, retreat at a minimum of 7-days to 6 months depending on the plant species and cultural practice.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container and keep tightly closed. Store in a cool dry secure 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 HANDLING: 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.

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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Backed by
BAYER

Produced for:
Bayer Environmental Science
A Division of Bayer CropScience LP
2 T. W. Alexander Drive
Research Triangle Park, NC 27709

Bayer

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2.5 Gallons
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2 T. W. Alexander Drive
Research Triangle Park, NC 27709

Bayer

(01)00785740146200

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