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Mr. Kenneth W. Chisholm  
Nor-Am Chemical Company  
P.O. Box 7495  
Wilmington, DE 19803

Jul 29

Dear Mr. Chisholm:

Subject: BANOL  
EPA Registration No. 45639-88 ✓  
VORLEX  
EPA Registration No. 45639-90  
BOTRAN 75W  
EPA Registration No. 45639-110  
Your Submission Dated April 28, 1988

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. A stamped copy of the label is enclosed for your records.

The new statement "Do not contaminate water when disposing of equipment washwaters" should replace the old one. Please delete the old statement.

Sincerely yours,

Lois A. Rossi  
Product Manager (21)  
Fungicide-Herbicide Branch  
Registration Division (TS-767C)

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Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, this product is registered under EPA Reg. No. 45639-88

# Banol

## TURF AND ORNAMENTAL FUNGICIDE

For Control of Pythium and Phytophthora

### ACTIVE INGREDIENT

Propamocarb hydrochloride\*

66.5%

\*Propyl [3-(dimethylamino)propyl] carbamate monohydrochloride

### INERT INGREDIENTS

33.5%

Total 100.0%

Contains 6.0 lbs. active ingredient per gallon

EPA Reg. No. 45639-88

**PRECAUCION AL USUARIO:** Si usted no lee ingles, no use este producto hasta que el etiqueta haya sido explicado ampliamente.

### KEEP OUT OF REACH OF CHILDREN CAUTION – PRECAUCION STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: ADMINISTER GASTRIC LAVAGE.

IF ON SKIN: WASH WITH SOAP AND WATER.

IF IN EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

SEE SIDE PANELS FOR ADDITIONAL PRECAUTIONARY STATEMENTS

**NOR-AM.**  
NOR-AM CHEMICAL COMPANY

3509 Silverside Road, P.O. Box 7495  
Wilmington, DE 19803

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## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

May be harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing.

**ENVIRONMENTAL HAZARDS:** Do not apply directly to water or wetlands. Do not contaminate water by cleaning of equipment or disposal of wastes.

**USE PRECAUTIONS:** Do not graze or feed clippings from treated areas to livestock. Do not enter treated areas until spray deposit has dried.

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:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or 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 which is subject to Pythium Blight (Cottony Blight, Grease Spot). 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, Proxol® 80SP (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 all directions and restrictions appearing on the labels of these products.

### IMPORTANT: READ BEFORE USE

By using this product, user accepts the following conditions, warranty, disclaimer of warranties and limitations of liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However, because of extreme weather and soil conditions, manner of use and other factors beyond NOR-AM Chemical Company's control, it is impossible for NOR-AM to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible.

**DISCLAIMER OF WARRANTIES:** THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of NOR-AM Chemical Company is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. UNDER NO CIRCUMSTANCES SHALL NOR-AM CHEMICAL COMPANY BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM FAILURE TO USE THIS PRODUCT IN ACCORDANCE WITH LABEL DIRECTIONS.

**LIMITATIONS OF LIABILITY:** In no event shall NOR-AM Chemical Company's liability for damages arising out of the use of this product exceed the purchase price of the product used.

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## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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TURFGRASS	AREA	Fluid Ounces BANOL*	REMARKS
For Control of Pythium Blight and Pythium Damping-Off on Established Turf and Overseeded Areas	1000 ft <sup>2</sup>	Preventative Treatment: 1 1/3-2 fluid oz. in 2-5 gallons of water.  Curative Treatment: 3-4 fluid oz. in 2-5 gallons of water.	ESTABLISHED TURF: Apply as a preventive treat- ment during periods of high temperature and humidity favorable to the development of Pythium Blight.  OVERSEEDDED AREAS: Apply after germination to control Pythium Damping-Off.  RETREATMENT: Retreat at 7-21 day intervals if conditions remain favorable for disease develop- ment. Use the 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.

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

ORNAMENTALS	Fluid Ounces BANOL	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  3 fl oz per 10 gallons of water  2 fl oz per 10 gallons of water  2 fl oz per 10 gallons of water	Banol requires no agitation after initial mixing. Stock solutions of Banol should be used within one week of mixing. Banol does not cause phytotoxic symp- toms on the listed plants when used as directed. Trials on other ornamental species should be conducted before extensive use.  Seeding: Apply to the seeding area using 3 quarts of solution/10 square feet. Treat before sowing of seeds requiring light and after covering of seeds requiring dark for germination.  Transplanting (Seedlings): Apply to the transplanting area using 3 quarts of solution/10 square feet before transplanting.  Transplanting (Cuttings): Drench the cutting bed using 2 gallons of solution/10 square feet before setting.  Potting: Dip bare root plants in the solution before pot- ting. After potting drench each pot at the rate of 3.5 fl oz of solution/4 inch pot. Repeat the drench treatment at 3 to 6 week intervals.
Woody Ornamentals	2.5 fl oz per 10 gallons of water	For control of <i>Phytophthora</i> sp. on woody ornamentals such as azalea, drench each container at the rate of 5 quarts of solution/10 square feet of surface. Repeat the drench treatment at 3 to 4 month intervals.

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