



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

FEB 9 1998

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

John S. Thornton  
Bayer Corporation, Agriculture Division  
P.O. Box 4913  
Kansas City, MO 64120-0013

Dear Mr. Thornton:

Subject: EPA Registration No. 3125-320  
Bayleton 50% Wettable Powder Fungicide  
Use Deletions  
Your Application Dated 12/19/96

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

1. On page 10, for Southern Blight Disease control, change the rates in the remark column from "2 to 4 oz" to "1 to 2 oz" and from "1 to 2 oz" to "0.5 to 1 oz"; for Bermudagrass decline change rates in remark column from "4 oz" to "2 oz" and from "2 oz" to "1 oz".
2. On page 11, delete reference to "small grains....cucurbits" under the Rotational Crops heading.

Sincerely yours,

/s/  
Cynthia Giles-Parker  
Product Manager 22  
Fungicide Branch  
Registration Division (7505C)

Enclosure

cc: SRRD, Arnold Layne

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320-8903.YLD

U.S. LABEL

Base Pre-Reg (8903)

Reason to Issue: To voluntarily cancel registrations on wheat, grasses grown for seed, sugar beets and cucurbits.

Date of Draft: 12/10/96 (T)

# Bayleton® 50%

## Wettable Powder Fungicide

For control of specified diseases on certain field, fruit and vegetable crops:

### ACTIVE INGREDIENT:

1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone ..... 50%

INERT INGREDIENTS ..... 50%  
100%

U.S. Patent No. 3,912,752

EPA Reg. No. 3125-320

Net Weight: \_\_\_ Pounds

**STOP - Read The Label Before Use  
KEEP OUT OF REACH OF CHILDREN**

## CAUTION

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed, inhaled, or absorbed through the skin. Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals. Avoid contact with skin, eyes or clothing. Avoid breathing dust or spray mist.

#### Personal Protective Equipment

**Applicators and other handlers (other than mixers and loaders) must wear:**

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Chemical-resistant headgear for overhead exposure

#### Mixer and loaders must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Chemical-resistant headgear
- Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

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 statements:** 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.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Text being deleted is highlighted by ~~strikeout~~.

Bayleton 50% WP

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## STATEMENTS OF PRACTICAL TREATMENT

**If swallowed:** Call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger, or, if available, by administering syrup of ipecac. **If syrup of ipecac is available,** administer 1 tablespoon (15 mL) of syrup of ipecac followed by 1 to 2 glasses of water. **If vomiting does not occur within 20 minutes,** repeat dose once. Do not induce vomiting or give anything by mouth to an unconscious person. **If on skin:** Wash with plenty of soap and water. Get medical attention. **If inhaled:** Remove victim to fresh air. If not breathing, give artificial respiration, mouth to mouth. Get

medical attention. **If in eyes:** Flush eyes with plenty of water. Call a physician if irritation persists.

**SYMPTOMS OF POISONING:** The compound does not cause any definite symptoms that would be diagnostic. Poisoning is accompanied by hyperactivity followed by sedation.

**Note To Physician:** No specific antidote. Treat symptomatically.

## 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. Apply this product only as specified on this label.

Do not make applications when weather conditions favor drift from target area.

**Ground Water Advisory:** This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

## 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 part 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 (PPE) 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 12 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
- Waterproof gloves
- Shoes plus socks
- Chemical-resistant headgear for overhead exposure

**IMPORTANT:** Read these entire Directions and Conditions of Sale before using BAYLETON 50% Wettable Powder fungicide.

**CONDITIONS OF SALE:** THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE THE DIRECTIONS FOR CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED FOR A RANGE OF WEATHER CONDITIONS SIMILAR TO THOSE WEATHER CONDITIONS THAT ARE ORDINARY AND CUSTOMARY IN THE GEOGRAPHIC AREA WHERE THE PRODUCT IS USED. INSUFFICIENT CONTROL OF PESTS AND/OR INJURY TO THE CROP TO WHICH THE PRODUCT IS APPLIED MAY RESULT FROM THE OCCURRENCE OF EXTRAORDINARY OR UNUSUAL WEATHER, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO OTHER CROPS, ANIMALS, MAN, OR THE ENVIRONMENT. BAYER OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL WEATHER, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF BAYER AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

**MIXING:** Add the recommended amount of BAYLETON 50% Wettable Powder into the spray tank while filling with water to the desired level. Operate the agitator while mixing. If other materials are added to the spray tank, the BAYLETON 50% Wettable Powder should be thoroughly dispersed prior to the addition of other materials.

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## BAYLETON 50% Wettable Powder Fungicide

**COMPATIBILITY:** BAYLETON fungicide is physically compatible with many registered insecticides, miticides, and fungicides. To determine the compatibility of BAYLETON fungicide with other products, the following procedure should be followed: Pour the recommended proportions of the

products into a suitable container of water, mix thoroughly and allow to stand at least five (5) minutes. If the combination remains mixed or can be re-mixed readily, the mixture is considered physically compatible. For further information contact your local Bayer representative.

### RECOMMENDED APPLICATIONS

BAYLETON 50% Wettable Powder may be applied in a minimum of 20 gallons of spray solution per acre by ground or in a minimum of 5 gallons of spray solution per acre by aircraft spray equipment except as noted under "Remarks" for each crop. Check equipment calibration frequently. Complete coverage and uniform application are essential for the most effective results, especially when lower spray volumes are applied. If necessary, increase the spray volume per acre for complete crop coverage.

Do not use on other crops grown for food or forage.

Consult your State Agricultural Experiment Station or Extension Service Specialist or Bayer representative for guidance on the selection of specific dosage rates and timing of applications appropriate for your specific crop and disease. State regulations may contain additional restrictions or requirements. Check the Remarks and restrictions sections of this label for additional directions.

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

\*Restriction not printed on label containing turf use.

RECOMMENDED APPLICATIONS				
CROP	DISEASE	RATE OF BAYLETON 50% Wettable Powder		REMARKS (Also refer to Directions for Use)
FRUITS Apples	Cedar-apple rust Powdery mildew	<u>Oz/A</u>	<u>Oz/100 gal<sup>1</sup></u>	<p>Make the first application at the green-tip stage and continue applications at 7- to 14-day intervals, or as needed until terminal growth ceases. Use the higher label rate under heavy disease pressure, with extended spray intervals, and/or on highly disease susceptible varieties.</p> <p>A maximum of 24 ounces of BAYLETON 50% WP may be applied per acre per season. BAYLETON 50% WP may be applied up to 45 days prior to crop harvest. Do not graze livestock in treated orchards.</p>
		2 to 8	1/2 to 2	
Pears	Powdery mildew	2 to 8	1/2 to 2	<p>Make the first application at the budburst stage and continue applications at 7- to 14-day intervals, or as needed. Use the higher label rates under heavy disease pressure, with extended spray intervals, and/or on highly disease susceptible varieties.</p> <p>A maximum of 24 oz of BAYLETON 50% WP may be applied per acre per season. BAYLETON 50% WP may be applied up to 45 days prior to crop harvest. Do not graze livestock in treated orchards.</p>
<sup>1</sup> Rates of BAYLETON 50% WP are based on a standard of 400 gallons of dilute spray per acre, or the equivalent amount of product per acre in a concentrate spray.				

**ACCEPTED**  
with COMMENTS  
In EPA Letter Dated  
FEB 9 1998

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

3125-320

RECOMMENDED APPLICATIONS			
CROP	DISEASE	RATE OF BAYLETON 50% Wettable Powder	REMARKS (Also refer to Directions for Use)
FRUIT continued Grapes	Powdery mildew	2 to 6 oz/A	<p><b>GENERAL COMMENTS</b> Use the higher label rates under heavy disease pressure, with extended spray intervals, and/or on highly disease susceptible varieties.</p> <p>Fields should be observed closely for early disease symptoms when susceptible varieties are planted and/or under prolonged conditions favorable for disease development.</p> <p>A maximum of 18 ounces of BAYLETON 50% WP may be applied per acre per crop season. BAYLETON 50% WP may be applied up to 14 days before harvest.</p>
	Black rot	<p><b>Protective Schedule</b> 2 to 3 oz/A</p> <p><b>Post-Infection</b> 3 to 4 oz/A</p>	<p><b>POWDERY MILDEW:</b> Make the first application pre-bloom and continue applications at 14- to 21-day intervals, or as needed.</p> <p><b>BLACK ROT: Protective Schedule:</b> Make the first application at 10-inch green shoot and continue applications at 7- to 14-day intervals through 5° Brix stage or until veraison (berry coloring) is complete. Under severe disease conditions and/or on highly susceptible varieties, make applications at 7-day intervals. <b>Post-infection Schedule:</b> During bloom apply within 72 hours after the beginning of an infection period. Do not make spray applications any closer than 7-day intervals. After bloom, continue applications at rates of 2 to 3 ounces of BAYLETON 50% WP at 7- to 14-day intervals, or as needed to maintain control.</p>
Pineapple	Pineapple butt rot <i>Ceratocystis paradoxa</i>	2-2/3 to 9 oz	<p><b>Pre-Plant Seed Piece Material Treatment:</b> Apply specified dosage in 100 gallons of water as a planting material dip. Immerse material to allow for thorough wetting. Use higher label rates under heavy disease pressure. Do not use green forage or green fodder for animal feed. Cannery waste may be fed.</p>
	Fresh fruit rot <i>Ceratocystis paradoxa</i>	2-2/3 to 9 oz	<p><b>Post-Harvest Fruit Treatment:</b> Apply specified dosage in 100 gallons of water or wax water after harvest. Fruit should be dipped or sprayed for thorough coverage and allowed to drain. Limit dipping time to not more than 3 minutes. Fruit discarded from fresh fruit packing operation may be used for processing. Cannery waste may be fed.</p>
Raspberries (California only)	Powdery mildew	4 oz/A	<p>Apply specified dosage per acre in not less than 20 gallons of water using ground equipment. Make the first application when disease symptoms first appear and additional applications at 4- to 6-week intervals thereafter as needed. A maximum of 7 total applications may be made in one year with not more than 2 applications within the same 30-day period. Do not harvest within 1 day of application.</p>

**BAYLETON 50% Wettable Powder Fungicide**

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RECOMMENDED APPLICATIONS			
CROP	DISEASE	RATE OF BAYLETON 50% Wettable Powder	REMARKS (Also refer to Directions for Use)
SMALL GRAINS Wheat	Powdery mildew	2 to 6 oz/A	<p>Field should be observed closely for early disease symptoms when susceptible varieties are planted and/or under prolonged conditions favorable for disease development.</p> <p>Apply specified dosage per acre in a minimum of 10 gallons of water per acre by ground equipment or a minimum of 5 gallons of water per acre by air when disease symptoms first appear on leaves or stems. Additional applications should be made if new disease symptoms appear.</p> <p>The total amount of BAYLETON 50% WP should not exceed 12 oz per acre per crop season and the last application should not be made within 95 days of harvest. Do not make applications closer than 10 days apart.</p> <p><b>POWDERY MILDEW:</b> In areas having severe powdery mildew infection apply 4 to 6 oz of BAYLETON 50% WP per acre.</p>
	Rusts — (stripe, leaf, and stem) Speckled leaf blotch — ( <i>Septoria tritici</i> ) Leaf and glume blotch — ( <i>Septoria nodorum</i> ) Tan spot — ( <i>Pyrenophora tritice-pentis</i> )	4 to 6 oz/A	<p><b>RUSTS:</b> In areas having severe rust infection apply 6 oz of BAYLETON 50% WP per acre.</p> <p><b>LEAF AND GLUME BLOTCH, SPECKLED LEAF BLOTCH, AND TAN SPOT:</b> BAYLETON 50% WP, applied at 4 to 6 oz per acre at first sign of infection, will control light to moderate leaf and glume blotch, speckled leaf blotch, and tan spot infections. Applications for the control of glume blotch should be timed to coincide with early head emergence. Applications made prior to head emergence will not provide sufficient residual activity to control glume blotch. For control of severe infections, it is recommended that a registered fungicide with good activity against these diseases be tank mixed with BAYLETON. Refer to the Tank Mixes section of this product label.</p>

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RECOMMENDED APPLICATIONS			
CROP	DISEASE	RATE OF BAYLETON 50% Wettable Powder	REMARKS (Also refer to Directions for Use)
<b>GRASSES GROWN FOR SEED</b> (Idaho, Oregon, and Washington Only)  Bentgrass Bermudagrass Bluegrass Crested —Wheatgrass Fine Fescue Orchard Grass Perennial —Ryegrass Tall Fescue	<b>Rusts</b> —( <i>Puccinia</i> spp.)	4 to 8 oz/A	<p>Apply the specified dosage in 20 gallons of water or more per acre with ground sprayers, or in 7 or more gallons of water per acre with aircraft. Thorough coverage is important for optimum disease control.</p> <p>Disease control may be enhanced by the addition of a wetting agent to spray mixtures of BAYLETON 50% WP.</p> <p>A maximum of 1 lb of BAYLETON 50% WP may be applied per acre per year.</p> <p>The last application may be made up to 5 days before harvest. Chaff and straw from treated area may be used for feed purposes; however, do not forage or cut green crop or use seed for feed purposes. Regrowth may be grazed 11 weeks after last application.</p> <p><del>Rusts: For optimum disease control, apply specified dosage of BAYLETON 50% WP as soon as weather conditions are favorable for rust development. Apply before rust pustules are present, and continue applications at 14 to 21 day intervals depending on disease pressure. On highly susceptible grass varieties and/or under prolonged conditions favorable for disease development use the shorter interval between applications. Rust control is especially important during the period from early head emergence through last flowering.</del></p>
	Powdery mildew	2 to 4 oz/A	<p>Disease control may not be adequate and yield loss may occur if rust infection is allowed to reach 5 percent or greater before treating. BAYLETON 50% WP will prevent young, developing pustules from producing spores. However, pustules and other symptoms caused by the rust fungus prior to the application of BAYLETON 50% WP will remain visible.</p> <p><del>Powdery Mildew: One or two applications at the 2 to 4 oz rate applied at the first signs of disease and when new powdery mildew symptoms reappear are generally sufficient for disease control. In cases where severe mildew infections are present, use the higher rate.</del></p>
Pine (Seedlings) (Except California)	Pine Rust ( <i>Fusiform</i> rust)	4 to 16 oz/A	<p>Begin application prior to infection period and repeat as necessary at 2- to 3-week intervals depending upon disease pressure. Use lower rates in areas of low disease incidence and higher rates in areas of severe disease incidence. A maximum of 64 oz of BAYLETON 50% WP may be applied per acre per season. A spreader-sticker is needed to help adhere spray solution to the pine trees.</p> <p>Do not apply BAYLETON 50% WP on recent grafted scions until one year after grafting.</p>
Pine Seed (Nurseries) (Except California)	Fusiform rust ( <i>Cronartium quercuum</i> )	20 oz	Mix specified dosage in 100 gallons of water. Cover seeds with the mixture and soak them, at room temperature (75°F), for 24 hours, stirring occasionally. Seed stratification, if necessary, should be completed before treatment with BAYLETON 50% WP. Thoroughly air dry all seed before applying any additional treatment or before planting. A spreader sticker may be needed to help adhere BAYLETON to the pine seed. Do not use treated seed for food or feed purposes.
		2 oz	Apply specified dosage to 50 lb of thoroughly wetted pine seeds in a commercial treater or other suitable tumbler apparatus. Allow to mix for at least 10 minutes before applying bird repellent or other seed dressing materials. Thoroughly air dry seed before sowing. Do not use treated seed for food or feed purposes.

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## BAYLETON 50% Wettable Powder Fungicide

RECOMMENDED APPLICATIONS			
CROP	DISEASE	RATE OF BAYLETON 50% Wettable Powder	REMARKS (Also refer to Directions for Use)
Sugar beets	Powdery mildew	4 to 6 oz/A	<p><b>GENERAL COMMENTS:</b> Apply the specified dosage per acre in a minimum of 10 gallons of water by ground and 5 gallons of water by air.</p> <p>Under severe disease conditions, use of the higher recommended rate may be necessary.</p> <p>Do not apply more than 16 oz of BAYLETON 50% WP per acre per season.</p> <p><b>BROADCAST APPLICATIONS:</b> Apply specified dosage per acre as a broadcast foliar spray when disease symptoms first appear. To maintain control or if reinfection occurs, additional applications may be made at 10 to 14 day intervals. Broadcast applications may be made up to 15 days before harvest.</p> <p><b>BAND APPLICATIONS:</b> Apply specified dosage per acre as a spray directed into the leaf whorl in a 2-inch band by turning a flat fan spray nozzle sideways to achieve a narrow band. Band applications may be made up to 30 days before harvest.</p>
Cucurbits —Balsam pear (bitter melon); Chinese waxgourd (Chinese preserving melon); citron melon; cucumber; gherkin; gourds; edible melons including hybrids (including cantaloupe; casaba; crenshaw; honeydew melons; honey balls; mango melon; muskmelon; Persian melon); pumpkin squash; summer squash; winter watermelon; including hybrids	Powdery mildew —( <i>Erysiphe cichoracearum</i> ) <sup>1</sup>	2 to 4 oz/A	<p>Apply specified dosage per acre in a minimum of 10 gallons of water by ground and 5 gallons of water by air as a foliar spray when disease symptoms first appear. Repeat at 14 day intervals to maintain control if new disease symptoms appear. Under severe disease conditions use the 4 oz rate. Applications may be made up to day of harvest. A maximum of 16 oz of BAYLETON 50% WP may be applied per acre per season.</p> <p><sup>1</sup>BAYLETON 50% WP will not give commercially acceptable control of <i>Sphaerotheca fuliginea</i>.</p>



**BAYLETON 50% Wettable Powder Fungicide**

RECOMMENDED APPLICATIONS			
CROP	DISEASE	RATE OF BAYLETON 50% Wettable Powder	REMARKS (Also refer to Directions for Use)
Christmas Trees (Except Concolor Fir)	Lophodermium Needlecast	8 oz/A	Apply specified dosage per acre or per 100 gallons of water as a full coverage, dilute spray as needed. Full coverage of the trees is essential for maximum control. Use of nonionic spray adjuvant is recommended. Time applications appropriately for the specific disease being controlled. A maximum of 64 oz of BAYLETON 50% WP may be applied per acre per season.
	<i>Lophodermium pinestri</i>		
	Rusts		
	<i>Cronartium</i> spp. (Fusiform)		
	<i>Peridermium</i> spp.	For rusts, begin applications when the needles break through the fascicle sheath. Make additional applications at 14- to 21-day intervals. Stop when galls become pale to white in color.	
	<i>Endocronartium harknessii</i> (Gall)		
	Stem & Cone Tip blight	For tip blight, begin applications to coincide with bud break. Make two additional applications at 14-day intervals.	
	<i>Sirococcus strobilinus</i>	For Lophodermium needlecast, begin applications to coincide with spore release, normally beginning in mid-July and ending in mid-October. Make applications at 21-day intervals. Extend interval to 28 days if spore release is light or dry weather is expected.	

TANK MIXES			
The following tank mix recommendations are made for the improved control of specific diseases. Before mixing BAYLETON 50% Wettable Powder with any other fungicide, read and carefully observe the precautionary statements, directions for use, and other information appearing on the EPA registered product labels.			
CROP	Rate of 50% Wettable Powder and 50% Dry Flowable Formulations of Benlate®	For Improved Control of:	BAYLETON 50% WP Rate
Wheat	4 oz/A	Leaf and glume blotch Leaf-rust	2 oz/A
		Speckled Leaf blotch Tan-spot	
CROP	Rate of 80% Wettable Powder* Formulations of Mancozeb	For Improved Control of:	BAYLETON 50% WP Rate
Grapes	East of Rockies: 1-1/2 to 4 lb/A West of Rockies: 1-1/2 to 2-1/2 lb/A	Bunch rot Dead arm	2 to 6 oz/A
Sugar beets	1-1/2 to 2 lb/A	Gercospora leaf spot	4 to 8 oz/A
Wheat	2 lb/A	Helminthosporium leaf spots Leaf and glume blotch Rusts	2 oz/A
		Speckled leaf blotch Tan-spot	
* The rates given are for the following 80% wettable powder formulations of mancozeb: Dithane M-45®, Penncozeb®, Clean Crop® Mancozeb 80 WP and Mancozeb Fungicide by Riverside/Terra Corp. Only tank mixes with Dithane M-45 can be used in California.			

### APPLICATION TO TURF

BAYLETON fungicide is absorbed rapidly and works systemically from within the plant. Good coverage and wetting of the foliage is necessary. Rainfall or sprinkler irrigation, within 1/2 hour after application does not decrease effectiveness. Control may be less effective on turf suffering from drought stress. Therefore, in order to achieve maximum control, turf should be maintained in a vigorously growing state through good cultural practices.

Apply in all cases when turf is fully established and actively growing. Applications should be applied at recommended intervals to maintain disease control.

Do not use on crops grown for food or forage. (Restriction only printed on labels where field, fruit and vegetable crops are not included.)

**USE IN CHEMIGATION SYSTEMS ON TURF ONLY:** Apply BAYLETON 50% Wettable Powder only through solid set irrigation systems. Do not apply this product through any other type of irrigation system.

The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

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# BAYLETON 50% Wettable Powder Fungicide

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back towards the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where the pesticide distribution is adversely affected.

Systems must use a metering pump such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the areas intended for treatment.

Crop injury or lack of effectiveness can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Pre-mix the required amount of BAYLETON 50%, as determined under "Recommended Applications", in sufficient water to uniformly inject the entire mixture during the last 5 minutes of the irrigation cycle using a positive pressure pumping system. Continuous agitation of the mixture in the holding tank is required to maintain suspension of the product. The injection must occur during the last 5 minutes of the irrigation cycle.

## RECOMMENDED APPLICATIONS - TURF GRASS DISEASE CONTROL

DISEASE	OZ OF BAYLETON 50% WP PER 1,000 SQUARE FEET*		REMARKS
Dollar Spot ( <i>Sclerotinia homoeocarpa</i> )	Preventive 0.5	Curative -	<b>PREVENTIVE RATE:</b> Apply recommended rate on 30-day intervals. Protective activity of BAYLETON may extend for as long as 60 days dependent upon environmental conditions.
	0.25	-	<b>PREVENTIVE RATE (Except California):</b> Apply recommended rate on 14-day intervals. Protective activity of BAYLETON may extend for as long as 30 days dependent upon environmental conditions.
	-	1	<b>CURATIVE RATE:</b> To control existing infections, apply the curative rate. Subsequent applications should be applied on a preventive schedule and rate.
Copper Spot ( <i>Gloeocercospora sorghi</i> ) Powdery Mildew ( <i>Erysiphe graminis</i> ) Corticium Red Thread ( <i>Laetisaria fuciformis</i> ) Rusts ( <i>Puccinia</i> spp.) Brown Patch/Rhizoctonia Blight ( <i>Rhizoctonia solani</i> ) (Suppression)	0.5	1	<b>PREVENTIVE RATE:</b> Apply at 15- to 30-day intervals. When environmental conditions favor light to moderate disease development, use a longer interval. Protective activity of BAYLETON can be greater than 30 days depending on environmental conditions.  <b>CURATIVE RATE:</b> To control existing infections, apply the curative rate. Subsequent applications should be applied on a preventive schedule and rate.

**BAYLETON 50% Wettable Powder Fungicide**

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<b>RECOMMENDED APPLICATIONS - TURF GRASS DISEASE CONTROL</b>			
<b>DISEASE</b>	<b>OZ OF BAYLETON 50% WP PER 1,000 SQUARE FEET*</b>		<b>REMARKS</b>
Anthracnose ( <i>Colletotrichum graminicola</i> )	<b>Preventive</b> 1	<b>Curative</b> -	<b>PREVENTIVE RATE:</b> Apply at 30-day intervals and repeat as necessary for seasonal control. Dependent upon environmental conditions, residual control may be extended to 45 days.
	0.5	-	<b>PREVENTIVE RATE (Except California):</b> Apply at 21-day intervals and repeat as necessary for seasonal control. Dependent upon environmental conditions, residual control may be extended to 30 days.
	-	1	<b>CURATIVE RATE:</b> To control existing infections, apply the curative rate. Subsequent applications should be applied on a preventive schedule and rate.
Southern Blight ( <i>Sclerotium rolfsii</i> )	0.5 to 2	2	<b>PREVENTIVE:</b> Begin applications prior to the appearance of disease symptoms. Depending on anticipated disease severity, apply 2 to 4 oz rates at 14-day intervals for the initial 2 to 3 treatments. Apply subsequent treatments of 1 to 2 oz at 14- to 28-day intervals.  <b>CURATIVE:</b> To control existing infections, apply 4 oz at 14-day intervals for the initial 2 to 3 treatments followed by 1 to 2 oz at 14- to 28-day intervals.
Stripe Smut ( <i>Ustilago striiformis</i> )	<b>Preventive Rates Only</b> 1		Make a single application in spring as grass growth begins.
Fusarium Blight ( <i>Fusarium culmorum</i> ) ( <i>Fusarium poae</i> ) Summer Patch ( <i>Magnaporthe poae</i> )	1 to 2		Apply first application in the Spring 30 to 60 days before initial symptoms normally appear. Repeat applications at 30-day intervals as needed.
Zoysia patch, Large patch of zoysia ( <i>Rhizoctonia solani</i> )	1 to 2		Make first application in early fall (mid-September to mid-October) prior to development of disease symptoms. A second application in early spring may be necessary in areas where disease pressure is known to be heavy.
Bermudagrass decline ( <i>Gaeumannomyces graminis</i> var. <i>graminis</i> )  Take all patch ( <i>Gaeumannomyces graminis</i> var. <i>avenae</i> )  (Except California)	<b>Preventive</b> 1	<b>Curative</b> 2	Immediately after the fungicide is applied, the area should be thoroughly irrigated to move the active ingredient down into the crown and root zone of the turf. The amount of water is dependent on the depth of the root zone. The objective is to water the fungicide into the crown and root zone.  <b>PREVENTIVE RATE:</b> Begin applications 2 to 4 weeks prior to the appearance of disease symptoms. Initiate cultural control practices at the same time the fungicide is applied. Refer to your local County Extension Service for this information. Apply subsequent applications at 21- to 28-day intervals.  <b>CURATIVE RATE:</b> To control existing infections, apply 4 oz at 14- to 21-day intervals for the initial 1 or 2 treatments followed by 2 oz at 21- to 28-day intervals. Cultural control practices such as aerification, topdressing, reseeding, and fertilization must be implemented prior to or at the same time the fungicide is applied. Refer to your local County Extension Service for this information.
Gray Snow Mold/Typhula Blight ( <i>Typhula incarnata</i> ) (Except California)	<b>Preventive Rates Only</b> 2		Apply in the fall, 30 days prior to turf dormancy. If turf breaks dormancy during winter months a second application should be made. Do not apply over snow cover, or when turf is dormant.
Pink Snow Mold/Fusarium Patch ( <i>Microdochium nivale</i> ) (Except California)	1 to 2		Apply before conditions favorable for infection occur. Re-application should be made as needed at a 60- to 90-day interval. Do not apply over snowcover, or when turf is dormant. Use higher rate in areas with a history of severe disease damage.

120412

# BAYLETON 50% Wettable Powder Fungicide

RECOMMENDED APPLICATIONS - TURF GRASS DISEASE CONTROL		
DISEASE	OZ OF BAYLETON 50% WP PER 1,000 SQUARE FEET*	REMARKS
Gray Snow Mold/Typhula Blight ( <i>Typhula incarnata</i> ) Pink Snow Mold/Fusarium Patch ( <i>Microdochium nivale</i> )  (California only)	Single Application 2.5 to 4	Apply in late fall before first snow cover. Do not apply over snow cover. Use the high rate in areas with a history of severe snowmold damage.
NOTE: Apply the specified amount of BAYLETON 50% Wettable Powder in 2 to 4 gallons of spray per 1,000 sq ft. For equivalent rates per acre see Conversion Table below. Make all applications after mowing and allow foliage to dry thoroughly before irrigation. Do not use clippings for animal feed.		

Conversion Table for BAYLETON 50% Wettable Powder		
Oz per 1000 sq ft		Lb per Acre
0.25	=	2/3
0.5	=	1-1/3
1.0	=	2-3/4
2.0	=	5-1/2
2.5	=	6-7/8

## ROTATIONAL CROPS

Small grains, corn, sorghum, soybeans, beans, peas and cucurbits may be planted 35 days after the last application of BAYLETON, however forage or vines from these crops may not be used for food or feed. Root crops may be planted 120

days after the last application but tops must not be used for food or feed. All crops may be planted 12 months or later after the last application of BAYLETON without any restrictions.

## STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed below. In spill or

leak incidents, keep unauthorized people away. You may contact the Bayer Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer Kansas City Emergency Response Telephone No. is 800-414-0244 or contact Chemtrec at 800-424-9300.

**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:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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Dithane M-45 is a Reg. TM of Rohm and Haas Company.  
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Crop Protection Products  
Box 4913, Kansas City, MO 64120-0013

