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John S. Thornton Miles Inc. P.O. Box 4913 Kansas City, MO 64120

Dear Mr. Thornton:

Subject: Revised Labeling - Reduced Application Rates

Bayleton 50% Wettable Powder
EPA Registration No. 3125-320
Your Submission Dated November 18, 1994

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungic de and Rodenticide Act (FIFRA), as amended is acceptable provided that you submit one (1) copy of your final printed labeling before you

release the product for shipment.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

Cynthia Giles-Parker

Product Manager (22) Fungicide Herbicide Branch Registration Division (7505C)

Enclosure

U.S. LABEL

Base Pre-Reg (8356)

Reason to Issue: To reduce rates on wheat, grasses grown for seed and sugar beets and revise remarks on pine (seedlings).

10/19/94 Draft: Revise per internal comments.

Date of Draft: 10/19/94(Pre-Reg)(T) Supersedes Pre-Reg Draft Dated: 05/10/94

# **BAYLETON®**

50% Wettable Powder Fungicide

# FOR CONTROL OF SPECIFIED DISEASES ON CERTAIN FIELD, FRUIT AND VEGETABLE CROPS

INERT INGREDIENTS .....

ACTIVE INGREDIENT:
1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1*H*-1,2,4-triazol-1-yl)-2-butanone ......

50% <u>50%</u>

100%

U.S. Patent No. 3,912,752 EPA Reg. No. 3125-320 EPA Est. 3125-MO-1

Net Weight: \_\_\_ Pounds

### STOP - READ THE LABEL BEFORE USE

#### KEEP OUT OF THE REACH OF CHILDREN

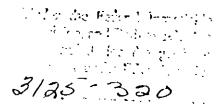
# CAUTION

See Rear Panel for Statements of Practical Treatment and Other Precautionary Statements

ACCEPTED
with COMMENTS
In EPA Letter Dated:

DEC 15 ...





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**BAYLETON 50% Wettable Powder** 

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# 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)

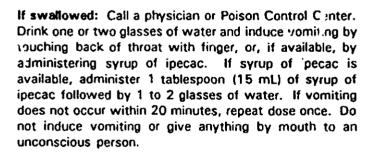
Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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:** User 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.

# STATEMENTS OF PRACTICAL TREATMENT



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.

# **ENVIRUNMENTAL 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

# 40711

## **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:

- Coverails
- 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. 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 MILES 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 raterials are added to the spray tank, the BAYLETON 50% Wettable Powder should be thoroughly dispersed prior to the addition of other materials.

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 remixed readily, the mixture is considered physically compatible. For further information contact your local Miles representative.

# **RECOMMENDED APPLICATIONS**

BAYLETON 50% Wettable Fowder 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 apply this product through any type of irrigation

system.

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

Consult your State Agricultural Experiment Station or Extension Service Specialist or Miles 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.

		R	ECOMMENDED	APPLICATIONS
CROP	DISEASE		BAYLETON table Powder	REMARKS (Also refer to Directions for Use)
FRUITS Apples	Cedar-apple rust Powdery mildew			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.
				A maximum of 24 ounces of BAYLETON 50% W.P may be applied per acre per season. BAYLETON 50% W.P. may be applied up to 45 days prior to crop harvest. Do not graze livestock in treated orchards.
Pears	Powdery mildew	2 to 8	1/2 to 2	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.
				A maximum of 24 oz of BAYLETON 50% W.P. may be applied per acre per season. BAYLETON 50% W.P. may be applied up to 45 days prior to crop harvest. Do not graze livestock in treated orchards.
Grapes	Powdery mildew	2 to 6 oz/A		GENERAL COMMENTS  Use the higher label rates under heavy disease pressure, with extended spray intervals, and/or on highly disease susceptible varieties.
				Fields should be observed closely for early disease symptoms when susceptible varieties are planted and/or under prolonged conditions favorable for disease development.
				A maximum of 18 ounces of BAYLETON 50% W.P. may be applied per acre per crop season. BAYLETON 50% W.P. may be applied up to 14 days before harvest.
	Plack set	Broke esti-	- Cobodula	POWDERY MILDEW: Make the first application pre- bloom and continue applications at 14- to 21-day intervals, or as needed.
	Black rot	2 to Post⊣	re Schedule 3 oz/A infection 4 oz/A	BLACK ROT  Protective Schedule: 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.
				Post-infection Schedule: 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% W.P. at 7- to 14-day intervals, or as needed to maintain control.

<sup>&</sup>lt;sup>1</sup> R les of BAYLETON 50% Wettable Powder 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.

	RECOMMENDED APPLICATIONS (Continued)				
СПОР	DISEASE	RATE OF BAYLETON 50% Wettable Powder	REMARKS (Also Refer to Directions for Use)		
Pineapple (Fresh market only)	Fresh fruit rot Ceratocystis paradoxa	13-1/3 oz	Post-Harvest Treatment: Apply specified dosage in 100 gallons of water to fruit after harvest. Fruit should be dipped or sprayed for thorough coverage and allowed to drain. Limit dipping time to not more than 3 minutes.		
Raspberries (California Only)	Powdery mildew	4 oz/A	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.		
SMALL GRAINS Wheat	Powdery mildew	2 to 6 oz/A	Field should be observed closely for early disease symptoms when susceptible varieties are planted and/or under prolonged conditions favorable for disease development.		
			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.		
			The total amount of BAYLETON 50% W.P. should not exceed 16 12 oz per acre per crop season and the last application should not be made within 21 36 days of harvest. Do not make applications closer than 10 days apart.		
	Rusts (stripe, leaf,	4 to 8 <u>fi</u> oz/A	Powdery mildew: In areas having severe powdery mildew infection apply 4 to 6 oz of BAYLETON 50% W.P. per acre.		
	and stem) Speckled leaf blotch		Rusts: In areas having severe rust infection apply 6 to 8 oz of BAYLETON 50% W.P. per acre.		
	(Septoria tritici) Leaf and glume blotch (Septoria nodorum) Tan spot (Pyrenophora triticirepentis)		Leaf and glume blotch, speckled leaf blotch, and tan spot: BAYLETON 50% W.P., applied at 4 to 8 5 oz per acre at first sign of infection, will control light to moderate leaf and glume blotch, speckled leaf bintch, 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.		

	RECOMMENDED APPLICATIONS (Continued)				
CROP	DISEASE	RATE OF BAYLETON 50% Wettable Powder	REMARKS (Also Refer to Directions for Use)		
GRASSES GROWN FOR SEED (Idaho,	Rusts ( <i>Puccinia</i> spp.)	PREVENTIVE RATE 4 to 8 oz/A	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.		
Oregon, and Washington Only)		CURATIVE RATE  8-to-16-oz/A	Disease control may be enhanced by the addition of a wetting agent to spray mixtures of BAYLETON 50% W.P.		
Bermudagrass			A maximum of 2 1 lb of BAYLETON 50% W.P. may be applied per acre per year.		
Perennial Ryegrass			The last application may be made up to 5 days before harvest. Chaff and straw from treated area may be		
Bluegrass Tall Fescue			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.		
Fine Fescue			RUSTS Proventive Schedule: For optimum disease control,		
Orchard Grass  Bentgrass  Crested			apply specified dosage of BAYLETON 50% W.P. 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.		
Wheatgrass			Curative Schedule: Apply the specified desage if rust pustules are already present. A second application 14-to 21 days later may be necessary. On highly susceptible grass varieties and/or under prolonged conditions favorable for disease development use rates of 12 to 16 oz per acro and a second shorter interval between applications. Rust control is especially important during the period from early head emergence through last flowering.		
			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% W.P. 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% W.P. will remain visible.		

	RECOMMENDED APPLICATIONS (Continued)				
CROP	DISEASE	RATE OF BAYLETON 50% Wettable Powder	REMARKS (Also refer to Directions for Use)		
GRASSES GROWN FOR SEED (Continued) Bermudagrass	Powdery mildew	2 to 4 oz/A	POWDERY MILDEW: One or two applications at the 2 to 4 or 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.		
Perennial Ryegrass					
Bluegrass					
Tall Fescue					
Fine Fescue					
Orchard Grass					
Bentgrass					
Crested Wheatgrass	<u> </u>				
Pine (Seedlings) (Except California)	Pine Rust (Fusiform rust)	4 to 16 oz/A	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% W.P. may be applied per acre per season. A spreader-sticker is needed to help adhere spray solution to the pine trees.		
			Do not apply BAYLETON 50% Wettable Powder on recent grafted scions until one year after grafting:		
Pine Seed (Nurseries) (Except California)	Fusiform rust (Cronartium quercuum)	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% Wettable Powder. 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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RECOMMENDED APPLICATIONS (Continued)				
CROP	DISEASE	RATE OF BAYLETON 50% Wettable Powder	REMARKS (Also refer to Directions for Use)	
Sugar beets	Powdery mildew	BROADCAST 4 to 16 % oz/A  BAND 8 to 16 oz/A	GENERAL COMMENTS: Apply the specified dosage per acre in a minimum of 10 gallons of water by ground and 5 gallons of water by air.  Under severe disease conditions, use of the higher recommended rate may be necessary.  Do not apply more than 16 oz of BAYLETON 50% Wettable Powder per acre per season.  BROADCAST APPLICATIONS: 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.  BAND APPLICATIONS: 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.	

RECOMMENDED APPLICATIONS (Continued)				
CROP	DISEASE	RATE OF BAYLETON 50% Wettable Powder	REMARKS	
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 (Erysiphe cichoracearum)*	2 to 4 oz/A	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% W.P. may be applied per acre per season.  *BAYLETON 50% W.P. will not give commercially acceptable control of Sphaerotheca fuliginea.	
Christmas Trees (Except Concolor Fir)	Stem & Cone Rusts Cronartium spp. (Fusiform) Peridermium spp. Endocronartium harknessii (Gall) Tip blight Sirococcus strobilinus	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% W.P. may be applied per acre per season.  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.  For tip blight, begin applications to coincide with bud break. Make two additional applications at 14-day intervals.	

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% W.P. Rate
Wheat	4 oz/A	Speckled Leaf blotch Leaf and glurne blotch Leaf rust Tan spot	2 oz/A
CROP	Rate of 80% Wettable Powder* Formulations of Mancozeb	For Improved Control of:	BAYLETON 50% W.P. Rete
Grapes	East of Rockic . 1 1/2 to 4 lb/A West of Rockies: 1 1/2 to ±1 1 lb/A	Bunch rot Desi erm Lowny mildew	2 to 6 oz/A
Sugar beets	1 1/2 to 2 lb/A	Cercospora leaf spot	4 to 46 8 oz/A
Wheat	2 lb/A	Helminthosporium leaf spots Speckled leaf blotch Leaf and glume blotch Tan spot Rusts	2 oz/A

<sup>\*</sup> 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.

## 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 foor 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

Pesticide Disposal: Do not contaminate water, food or feed by storage or 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.

Store in a cool, dry place and in such a manner as to prevent cross cont: mination with other pesticides, fertilize:s, food, and feed. Store in original container and

Benlate is a Reg. TM of E.I. DuPont de Nemours & Co. (Inc.) Clean Crop is a Reg TM of Platte Chemical Company. Dithane M-45 is a Reg. TM of Rohm and Hass Company. Pennoozeb is a Reg. TM of Elf Atochem North America. 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 above. In spill or leak incidents, keep unauthorized people away. You may contact the Miles Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Miles Kansas City Emergency Response Telephone No. is 816-242-2582, or contact Chemtrec at 800-424-9300.

Miles Inc.
Crop Protection Products
Box 4913, Kansas City, MO 64120