pm 22 3/25-438 pop

JUL 29 1994

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

Dear Mr. Thornton:

Subject: Revised Labeling

Bayleton 25 Nursery and Green house Systemic Fungicide in

Water Soluble Packets

EPA Registration No. 3125-438

Your Submissions Dated July 14, 1994

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you:

- 1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
  - a. Reinstate the five paragraphs in the chemigation directions that appear on page 4 of the last accepted label starting with "The system must contain..." through "...manufacturers or other experts"
  - b. Add a Groundwater Advisory Statement. See our letter dated May 12, 1994.
- 2. 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,

15/

Cynthia Giles-Parker Product Manger (22) Fungicide Herbicide Branch Registration Division (7505C)

Enclosure

U. S. LABEL

∂ **7** / / Base Pre-Reg (817**2**)

Reason to Issue: To add use on poinsettia and hydrangea, add control of zoysia patch, revise name for bermudagrass decline and take all patch, and revise ornamental disease control table.

Date of Draft: 06/08/94(Pre-Reg)(T)

Jacket

# BAYLETON<sup>®</sup> 25

# Nursery and Greenhouse Systemic Fungicide in Water Soluble Packets

For control of certain diseases on flowers, foliage plants, shrubs, turf and shade trees in commercial nurseries, garden centers, greenhouses and sod farms.

#### **ACTIVE INGREDIENT:**

Keep water soluble packets in this container and store in a cool place but not below freezing (32°F).

U. S. Patent No. 3,912,752 EPA Reg. No. 3125-438 EPA Est. 3125-MO-1 Sell in Original Packages Only
Contains Four 11 Ounce Water Soluble Packets
Total Net Contents: 2.75 Pounds

# STOP - Read the Label Before Use KEEP OUT OF REACH OF CHILDREN

## CAUTION

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

PRECAUCION AL USUARIO: Si usted no puede leer o entender inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

(TO THE USER: If you cannot read or understand English, do not use this product until the label has been fully explained to you.)

ACCEPTED
with COMMENTS
In EPA Letter Dated:

71 23

then the Pools of Insecticide topy (Se, and it is mutually Act encoded, the the posteride existered under EPA Ren. No. 3125-438

MILES /

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## CAUTION

Exposure to the product can cause eye irritation. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid breathing dust. Avoid contact with eyes, skin, or clothing.

Personal Protective Equipment
Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- 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.

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 swallowed: Call a physician or Poison Control Center. Vomiting should be induced. Administer water freely and induce vomiting by giving one dose (1/2 oz or 15 mL) of syrup of ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose. If syrup of ipecac is not available, drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person. Professional medical assistance should be secured immediately.

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

If on skin: Wash with plenty of soap and water. Get medical attention.

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

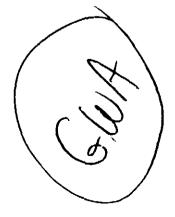
NOTE TO PHYSICIAN: No specific antidote. Treat symptomatically.

#### **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.



#### **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

MPORTANT: Read these entire Directions and Conditions of Sale before using BAYLETON 25 Nursery and Greenhouse Fungicide systemic fungicide.

CONDITIONS OF SALE: THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE APPROPRIATE FOR THE CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED UNDER DIFFERENT ENVIRONMENTAL CONDITIONS BOTH INDOORS AND OUTDOORS UNDER CONDITIONS SIMILAR TO THOSE THAT ARE ORDINARY AND CUSTOMARY WHERE THE PRODUCT IS TO BE USED. INSUFFICIENT CONTROL OF PESTS OR PLANT INJURY MAY RESULT FROM THE OCCURRENCE OF **EXTRAORDINARY ORUNUSUAL CONDITIONS, OR FROM** FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION. FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO ANIMALS, MAN, AND DAMAGE TO THE ENVIRONMENT. MILES OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL ENVIRONMENTAL CONDITIONS, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF MILES AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

APPLICATION: BAYLETON fungicide is absorbed rapidly and works systemically from within the plant. Good coverage and wetting of the foliage are necessary. Rainfall or sprinkler irrigation, within 30 minutes after application does not decrease effectiveness. Control may be less effective on plants suffering from drought stress. Therefore, in order to achieve maximum control, plants should be maintained in a vigorously growing state through good cultural practices.

In all cases apply when plants are fully established and actively growing. Applications should be made at recommended intervals to maintain disease control.

Do not use on crops grown for food or forage.

MIXING: The enclosed packets containing BAYLETON 25 Nursery and Greenhouse Fungicide are water soluble. Do not allow packets to become wet prior to adding to the spray tank. Do not handle with wet hands. Reseal outer carton to protect remaining packets.

Tc prepare the spray mixture, drop the required number of unopenod packets, as determined under "Recommended Applications", into the spray tank while filling the water to the desired level. Operate the agitator while mixing. Depending on the water temperature and the degree of agitation, the packets should be completely dissolved within a few minutes from the time they were added to the water.

USE IN CHEMIGATION SYSTEMS ON TURF ONLY: Apply BAYLETON 25 Nursery and Greenhouse Fungicide 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.

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.

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.

- व्य

-

5 9 10.

ţ

Pre-mix the required amount of BAYLETON 25 Nursery and Greenhouse Fungicide, 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.

DISEASE	OZ OF BAYLETON 25 NURSERY AND GREENHOUSE		REMARKS
Doller Spot (Scierotinie homoeocerpe)	PER 1,000 SQ Preventive	Curative	PREVENTIVE RATE: Apply recommended rate at 30-day intervals. Protective activity of BAYLETON may extend for as long as 60 days, depending upon environmental conditions.
	0.5		PREVENTIVE RATE (Excluse Californial - Apply (accommended rate on Lectary intervals - Protective acquiry of BAYLETON pay particul 10200 long us \$50 pays (rependent supon and comments) conditions
	-	2	CURATIVE RATE: To control existing infections, apply the curative rate. Subsequent applications should be applied on a preventive schedule and rate.
Copper Spot (Glaeocercospore sorghi) Powdery Mildew (Epysiphe graminis) Corticium Red Thread (Leetiseria fuciformis) Rueta	1	2	PREVENTIVE RATE: 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.  CURATIVE RATE: To control existing infections, apply the
(Puccinia spp.) Erown Patch/ Rhizoctonia Blight (Rhizoctonia solani) (Suppression)			curative rate. Subsequent applications should be applied on a preventive schedule and rate.
Anthracnose (Colletotrichum graminicole)	2	-	PREVENTIVE RATE: Apply at 30-day intervals and repeat as necessary for seasonal control. Depending upon environmental conditions, residual control may be extended to 45 days.
		2	CURATIVE RATE: To control existing infections, apply the curative rate. Subsequent applications should be applied on a preventive schedule and rate.
Southern Blight (Sclerotium rolfsii)	Preventive	Curative 4	PREVENTIVE RATE: Begin applications prior to the appearance of disease synaptoms. 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.
			CUFATIVE RATE: To control existing infections, apply 4 oz et 14 day intervals for the initial 2 to 3 treatments followed by 1 to 2 oz at 14- to 28-day intervals.
Stripe Smut (Ustilago striiformis)	Preventive Rates Only 2		Make the first application in the spring just before the turn breaks dormancy, followed by a second application just prior to the summer heat stress period and a third application when the cool nighttime temperatures of the late summer or early fall return.
Fuserium Blight (Fuserium culmorum) (Fuserium pose) Summer Patch (Magnaporthe pose)	2 to 4		Apply first application in the Spring, 30 to 60 days before initial symptoms normally appear. Repeat applications at 30 day intervals as needed.

RECOMMENDED APPLICATIONS - TURF GRASS DISEASE CONTROL (Continued)					
OZ OF BAYLETON 25 NURSERY AND GREENHOUSE PER 1,000 SQ FEET*	REMARKS				
	Make first application in early fall (mid-September to mid- October) prior to development of disease symp-toms. A second application in early spring may be becomeny in areas where disease pressure is known to be heavy.				
Preventive Curative 2 4	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.				
	PREVENTIVE RATE: 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 Ser-vice for this information. Apply subsequent applica-ations at 21 to 28-day intervals.				
	CURATIVE RATE: 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, top-dressing, reseeding, and fertilization must be imple-mented prior to or at the same time the fungicide is applied. Refer to your local County Extension Service for this information.				
Preventive Rates Only 4	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, cr when turf is dormant.				
2 to 4	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.				
Single Application  5.10.8	Apply in late fell before first snow cover. Do not apply over snow cover. Use the high rate in areas with a his-tory of severe in awritid damage.				
	Preventive Rates Only 4  2 to 4				

Note: "Apply the specified amount of BAYLETON 25 Nursery and Greenhouse Fungicide using 2 to 4 gallons of spray per 1,000 square feet. 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 25 Nursery and Greenhouse Fungicide

Dz/1,000 ft²	Pounds Per Acre	Number of 11 oz PVA Packets Per Acre	
0.5	N (14 (14 (14 (14 (14 (14 (14 (14 (14 (14	2+ [24] \$25 (FEED )	
1.0	2.75	4	
2.0	5.50	8	
4.0	11.00	10	

Locate plant(s) (see below) to be treated. Cross reference the number/letter codes, following the plant name, to the specific diseases (see below) controlled. Refer to Application Rates section for instructions detailing use for each disease. In California, only those plants marked with an asterisk may be freated.					
PL PL	ANTS	DISEASES			
Elm (3) Fir (4) Locust (3) Maple (3) Oak* (3) Pine* (4, 5) Poplar (3, 4) Russian Olive (2b, 4) Sycamore* (3) Walnut (3) Willow* (3, 4)	Carnation* (3, 4) Chrysanthemum* (3, 4) Cineraria (3) Crassula (3) Daisy (3, 4) Fern, Boston (4) Desmella app. Geranium* (3, 4) Gerbera (3) Grape Leaf Ivy* (3) Hydranges (3) Kalanchoe (3) Foliastica (3)	Sirococcus strabilinus (B)			



## **DIRECTIONS FOR USE (Continued)**

APPLICATION RATES: Except as noted for specific diseases, mix 11 ounces of BAYLETON 25 Nursery and Greenhouse Fungicide in 275 to 550 gallons of water and apply as a full coverage foliage spray to the point of drip as needed.

- [A] Mix 11 oz of BAYLETON 25 Nursery and Greenhouse Fungicide in 68.75 to 137.5 gallons of water and apply as a full-coverage foliar spray to the point of drip. Use multiple applications at 7- to 14-day intervals as needed dependent upon bloom periods. Applications should begin at the expanded bud stage (color showing or at bud break on Hemlock). Use 4 applications at 14-day intervals for Hemlock rust.
- [B] Mix 11 oz of BAYLETON 25 Nursery and Greenhouse Fungicide plus sufficient spreader sticker for good coverage in 68.75 gallons of water. Apply in a spray application to the point of run-off on an as needed basis during the early part of the season. Excessive rates or excessive applications may result in a shortening of the flower stalk on iris.
- [C] Mix 11 oz of BAYLETON 25 Nursery and Greenhouse Fungicide in 68.75 to 137.5 gallons of water and apply as a full coverage foliar spray to point of run-off. Apply in early spring as growth starts and re-apply on a 14- to 21-day interval until new growth is fully expanded. Protect new growth that develops in late summer or fall as temperatures begin to drop.
- (D) Greenhouse Applications of BAYLETON 25 Nursery and Greenhouse Fungicide

Winter Use -1 oz in 50 gallons of water or 11 oz in 550 gallons of water.

Summer Use -- 2 oz in 50 gallons of water or 11 oz n 275 gallons of water.

Mix specified amount of BAYLETON 25 Nursery and Greenhouse Fungicide in water and apply in a spray application to the point of drip. Intervals between applications should be no shorter than 30 days to avoid flower stalk length reduction. Excessive rates or applications may result in a shortening of the flower stalk.

- [E] For control of Exobasidium flower and leaf gall, apply 11 ounces of BAYLETON 25 Nursery and Greenhouse Fungicide in 275 gallons of water. Begin application at bud break and apply at 10-day intervals through infestation period.
- [F] For control of Melampsora pinitorqua (Pine Twisting Rust), apply a single application in spring during periods favorable for infection. Mix 11 ounces in 34.3 gallons of water and apply to shoots in the upper whorl of suspectable pine species. Make a single application per year as a full coverage application sprayed to runoff.
- [G] For control of Didymascella thujina, Cedar Leaf Blight, apply 11 ounces per 0.69 acres in sufficient water to provide full coverage in nurseries, or 11 ounces per 68.75 gallons applied as a full coverage spray to ornamentals. Begin applications before disease appears in spring, and repeat at 60-day intervals through early fall.

COMPATIBILITY: BAYLETON is compatible with many registered insecticides and fungicides. To determine the compatibility of BAYLETON with specific products, the following procedure should be conducted. Pour the recommended proportions of the products into a suitable container of water, mix thoroughly and allow to stand at least 5 minutes. If the combination remains mixed or can be re-mixed readily, the mixture is considered physically compatible.

SPRAY ADDITIVES: Use of various spray additives such as spreaders, extenders, trace elements or fertilizers should be evaluated prior to use. The label directions given here are based on data obtained with no additives; use of any product with BAYLETON may affect the result. Contact local university extension personnel prior to use of spray mix additives.

RESTRICTIONS: Edible portions of treated trees, such as nuts and syrup, should not be used for feed or food.

#### STORAGE AND DISPOSAL

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

Household: Do not reuse empty container. Securely wrap original container in several layers of newspaper and put in trash collection.

Pesticide Disposal (Except Household): Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal (Except Household): Completely empty carton into application equipment. Then dispose of empty carton 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 contamination with other pesticides, fertilizers, food, and feed. Do not store below freezing (32°F). Exposure to moisture or excessive handling of water soluble packets may cause breakage. Store packets 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. Material that cannot be used as directed should be disposed of 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.
Specialty Products
Box 4913, Kansas City, MO 64120-0013

438-8172.YLD

Base Pre-Reg (8172a)

#### **LABELING FOR 11 OUNCE PVA PACKET**

#### **BAYLETON**

#### 25 Nursery and Greenhouse Fungicide

#### **SYSTEMIC FUNGICIDE**

EPA Reg. No. 3125-438

**KEEP OUT OF REACH OF CHILDREN** 

# **CAUTION**

(See Outer Package for Directions and Precautions)

Net Contents 11 Ounces