



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:  
3125-436

Date of Issuance:  
OCT 21 1993

Term of Issuance:  
Conditional

NOTICE OF PESTICIDE:  
  x   Registration  
      Reregistration  
  
(under FIFRA, as amended)

Name of Pesticide Product:  
Bayleton 25 Wettable  
Powder Nursery and  
Greenhouse Systemic  
Fungicide

Name and Address of Registrant (include ZIP Code):

Miles Inc.  
P.O. Box 4913  
Kansas City, MO 64120-0013

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the following label changes listed below before you release the product for shipment:

- a. Add the phrase, "EPA Reg. No. 3125-436".
- b. In the Environmental Hazards section delete "For terrestrial uses,". Refer to PR Notice 93-8.

Signature of Approving Official:

(S)

Date:

OCT 21 1993

3. Submit one (1) copy of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

Cynthia Giles-Parker  
Product Manager (22)  
Fungicide-Herbicide Branch  
Registration Division (H7505C)

Enclosure

**BAYLETON 25 WP**

XXX-7883.YLD

U. S. LABEL

Base Pre-Reg (7883)

5.8.11

Reason to Issue: To propose registration of a new product for use in commercial nurseries, garden centers, greenhouses and sod farms.

Date of Draft: 06/15/93(Pre-Reg)(T)

*Tacket*

# **BAYLETON®**

## **25 Wettable Powder**

### **Nursery and Greenhouse Systemic Fungicide**

FOR CONTROL OF CERTAIN DISEASES ON FLOWERS, FOLIAGE PLANTS,  
SHRUBS, TURF AND SHADE TREES IN COMMERCIAL NURSERIES,  
GARDEN CENTERS, GREENHOUSES AND SOD FARMS

*hps*

**ACTIVE INGREDIENT:**

1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone .....	25%
INERT INGREDIENTS .....	75%
	100%

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

EPA Reg. No. 3125-XXX

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

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

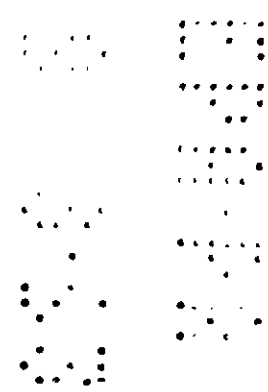
**(TO THE USER:** If you cannot read or understand English, do not use this product until the label has been fully explained to you.)

ACCEPTED  
with COMMENTS  
In EPA Label Draft

**MILES** 

OCT 21 1993

3125-436



## DIRECTIONS FOR USE

5 of 11

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

**IMPORTANT:** 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 OR UNUSUAL 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 is necessary. Rainfall or sprinkler irrigation, within 1/2 hour 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.

Apply in all cases when plants are 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.

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

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.

**BEST AVAILABLE COPY**

RECOMMENDED APPLICATIONS (Continued) TURF GRASS DISEASE CONTROL			
DISEASE	OZS OF BAYLETON 25 WP PER 1,000 SQUARE FOOT*		REMARKS
Anthracnose ( <i>Colletotrichum graminicola</i> )	Preventive	Curative	PREVENTIVE RATE: Apply at 30 day intervals and repeat as necessary for seasonal control. Dependent upon environmental conditions, residual control may be extended to 45 days.
	2	-	
	1	-	PREVENTIVE RATE: (Except California) Apply at 21 day intervals and repeat as necessary for seasonal control. Dependent upon environmental conditions, residual control may be extended to 30 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 ( <i>Sclerotium rolfsii</i> )	Preventive	Curative	PREVENTIVE: 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.
	1 to 4	4	CURATIVE: 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> )	Preventive Rates Only		Make a single application in spring as grass growth begins.
	2		
Fusarium Blight ( <i>Fusarium culmorum</i> ) ( <i>Fusarium poae</i> ) Summer Patch ( <i>Phialophora graminicola</i> ) ( <i>Magnaporthe poae</i> )	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 (Continued)**  
**TURF GRASS DISEASE CONTROL**

DISEASE	OZS OF BAYLETON 25 WP PER 1,000 SQUARE FOOT*	REMARKS
<b><i>Gaeumannomyces graminis</i> var. <i>graminis</i></b>  (Such as Bermudagrass decline, take all patch on centipede grass)  (Except California)	<b>Preventive Curative</b>  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.  <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>  4	Apply in 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 nivalis</i> )  (Except California)	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.
Gray Snow Mold/Typhula Blight ( <i>Typhula incarnata</i> ) Pink Snow Mold/Fusarium Patch ( <i>Microdochium nivalis</i> )  (California only)	<b>Single Application</b>  5 to 8	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 25 Nursery and Greenhouse Systemic Fungicide 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 25 Nursery and Greenhouse Systemic Fungicide		
Oz per 1000 sq ft		Lb per Acre
1	=	2-3/4
2	=	5-1/2
4	=	11
5	=	13-3/4

## ORNAMENTAL PLANT DISEASE CONTROL

## PLANTS (Disease Controlled Reference)

## DISEASES

## Flowering &amp; Foliage Plants

(Outdoor) (Except California)

Ageratum (2b, 3, 4)  
 Aster (4)  
 Begonia (3)  
 Canna (4)  
 Carnation (3, 4)  
 Chrysanthemum (3, 4)  
 Dahlia (3)  
 Delphinium (3)  
 Dianthus (4)  
 Four O'Clock (4)  
 Geranium (3, 4)  
 Hollyhock (3, 4)  
 Iris (2c)  
 Marigold (2b, 4)  
 Nephthytis (2a)  
 Pansy (3, 4)  
 Petunia (3, 4)  
 Phlox (2b, 3, 4)  
 Rose (3)  
 Salvia (3, 4)  
 Scum (3)  
 Snapdragon (3, 4)  
 Sunflowers (3, 4)  
 (ornamental only)  
 Sweet peas (3)  
 Zinnia (2b, 3)  
 Shade Trees (Except California)  
 Ash (3)  
 Aspen (3, 4)  
 Birch (3, 4)  
 Buckeye (3)  
 Chestnut (3)  
 Cottonwood (3, 4)  
 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)

## Hawaii Only

Dendrobium (1c)

## California Only Recommendations

Azalea (1a, 3)  
 Begonia (3)  
 Cedar (2d)  
 Crape myrtle (3)  
 Euonymus (3)  
 Geranium (3, 4)  
 Hollyhock (3, 4)  
 Iris (2c)  
 Nephthytis (2a)  
 Oak (3)  
 Pine Trees (4, 5)  
 Rose (3)  
 Snapdragon (3, 4)  
 Sweet peas (3)  
 Sycamore (3)  
 Viburnum (3)  
 Willow (4)  
 Zinnia (2b, 3)

## Ornamental Shrubs &amp; Trees

(Except California)

Amelanchier (3)  
 Azalea (1a, 2f, 3)  
 Barberry (3, 4)  
 Buckthorn (4)  
 Camellia (suppression of 1b)  
 Cedar (2d)  
 Crabapple (flowering) (3, 4)  
 Crape myrtle (3)  
 Dogwood (3)  
 Euonymus (3)  
 Gardenia (3)  
 Hawthorn (3, 4)  
 Hemlock (4e)  
 Holly (3)  
 Juniper (4)  
 Leucothoe (2b)  
 Lilac (3)  
 Mock-Orange (3, 4)  
 Mountain Laurel (1a, 2b, 3)  
 Ninebark (3)  
 Paulownia (3)  
 (Empress Tree)  
 Pear (Flowering) (3)  
 Photinia (2a, 3, 4)  
 Potentilla (4)  
 (Cinquefoil)  
 Privet (2b, 3)  
 Pyracantha (3)  
 Rhododendron (1a, 2b, 3)  
 Spirea (3)  
 Viburnum (3, 4)  
 Vitex (2b)  
 (Chaste Tree)  
 Flowering & Foliage Plants  
 (Greenhouse [D])  
 (Except California)  
 African Violet (3)  
 Azalea (1a, 2f, 3)  
 Calendula (3, 4)  
 Carnation (3, 4)  
 Chrysanthemum (3, 4)  
 Cineraria (3)  
 Crassula (3)  
 Daisy (3, 4)  
 Fern, Boston (4)  
 Desmella spp.  
 Geranium (3, 4)  
 Gerbera (3)  
 Grape Leaf Ivy (3)  
 Kalanchoe (3)  
 Rose (3)  
 Snapdragon (3, 4)

## California Only Recommendations

Greenhouse [D]  
 African Violet (3)  
 Carnation (3, 4)  
 Chrysanthemum (3, 4)  
 Geranium (3, 4)  
 Grape Leaf Ivy (3)  
 Rose (3)

## (1) Flower Blight

- a) *Ovulinia* spp. [A]
- b) *Sclerotinia* spp. [A]
- c) *Collectotrichum* [A]

## (2) Leaf Blight/Spots

- a) *Cephalosporium* spp. [C]
- b) *Cercospora* spp.
- c) *Didymella* spp. [B]
- d) *Didymascella thujina* [G]
- e) *Entomosporium* spp. [C]
- f) *Exobasidium* spp. [E]

## (3) Powdery Mildew

- Erysiphe* spp.
- Microsphaera* spp.
- Oidium* spp.
- Podosphaera* spp.
- Phyllosticta* spp.
- Sphaerotheca* spp.
- Uncinula* spp.

## (4) Rusts

- a) *Coleosporium* spp.
- b) *Cronartium* spp. [B]  
(Fusiform)
- c) *Gymnosporangium* spp.
- d) *Melampsora* spp. [F]
- e) *Melampsora farlowii* [A]
- f) *Melampsoridium* spp.
- g) *Peridermium* spp. [B]
- h) *Phragmidium andersonii*
- i) *Puccinia* spp.
- j) *Uromyces* spp.
- k) *Uredinopsis mirabilis* [A]

## (5) Tip Blight

- Sirococcus strobilinus* [B]

## DIRECTIONS FOR USE (Continued)

### ORNAMENTAL PLANT DISEASE CONTROL (Continued):

**APPLICATION RATES:** Except as noted for specific diseases, mix 1 to 2 ounces of BAYLETON 25 Nursery and Greenhouse Systemic Fungicide in 50 gallons of water and apply as a full coverage foliage spray to the point of drip as needed.

[A] Mix 4 to 8 ounces of BAYLETON 25 Nursery and Greenhouse Systemic Fungicide in 50 gallons of water and apply as a full-coverage foliar spray to the point of drip. Applications should begin at the expanded bud stage (color showing). Use multiple applications at 7 to 14 day intervals as needed dependent upon bloom periods.

[B] Mix 8 ounces of BAYLETON 25 Nursery and Greenhouse Systemic Fungicide plus sufficient spreader sticker for good coverage in 50 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 4 to 8 ounces of BAYLETON 25 Nursery and Greenhouse Systemic Fungicide in 50 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**  
Winter Use - 1 oz of BAYLETON 25 Nursery and Greenhouse Systemic Fungicide  
Summer Use - 2 oz of BAYLETON 25 Nursery and Greenhouse Systemic Fungicide

Mix specified amount of BAYLETON 25 Nursery and Greenhouse Systemic Fungicide in 50 gallons of 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 2 oz of BAYLETON 25 Nursery and Greenhouse Systemic Fungicide in 50 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 16 oz in 50 gallons of water and apply to shoots in the upper whorl of susceptible 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 1 lb per acre in sufficient water to provide full coverage in nurseries, or 0.5 lb/100 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. 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. 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