STATE OF HAWAII
Department of Agriculture
ACCEPTED
LICENSE NO. 9346.286

BAYLETON® 50 WP

Turf and Ornamental Fungicide

SYSTEMIC FUNGICIDE

Specimen Label

* *For control of certain diseases on flowers, foliage plants, shrubs, turf and shade trees. Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.*

ACTIVE INGREDIENT:

1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1*H*-1,2,4-triazol-1-yl)-2-butanone	50%
OTHER INGREDIENTS:	50%
Total:	100%

EPA Reg. No. 432-1360
U.S. Patent No. 3,912,752

EPA Est. No.

LICENSED
HAWAII
DEPT. OF AGRICULTURE
Period 2001-2006 No. 9346.286

STOP - Read the label before use.
Keep out of reach of children.
CAUTION

PRECAUCION AL USUARIO: Si usted no puede leer o entender inglès, 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.)

TOTAL NET CONTENTS:

BACKED by BAYER™

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 breathing dust or spray mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

For MEDICAL and TRANSPORTATION Emergencies ONLY
Call 24 Hours A Day 1-800-334-7577
For PRODUCT USE Information Call 1-800-334-9745

FIRST AID

If swallowed	• Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor.
If in eyes	• Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled:	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	

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 by cleaning of equipment or disposal of equipment washwaters.

Apply this product only as specified on this label.

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

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.

APPLICATION: BAYLETON® 50 WP 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.

MIXING: Add the recommended amount of BAYLETON® 50 WP Turf and Ornamental Fungicide 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® should be thoroughly dispersed prior to the addition of other materials.

BAYLETON® 50 Turf and Ornamental Fungicide can be tank-mixed with Prostar 50WP for use on turf in accordance with the more (most) restrictive of label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing. Do not use on crop grown for food or forage.

USE IN CHEMIGATION SYSTEMS ON TURF ONLY

Apply BAYLETON® 50 WP Turf and Ornamental 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.

Turf 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 WP Turf and Ornamental 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.

RECOMMENDED APPLICATIONS – TURFGRASS DISEASE CONTROL

DISEASE	OZ OF BAYLETON® 50 WP TURF AND ORNAMENTAL PER 1,000 SQUARE FEET*		REMARKS
	Preventive	**Curative**	
Dollar Spot *(Sclerotinia homoeocarpa)*	0.5	-	**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.
	.25	-	**PREVENTIVE RATE (Except California):** Apply recommended rate on 14-day intervals. Protective activity of BAYLETON® may extend for as long as 30 days dependent upon environmental conditions.
	-	1	**CURATIVE RATE:** To control existing infections, apply the curative rate. Subsequent applications should be applied on a preventive schedule and rate.
Brown Patch/Rhizoctonia Blight *(Rhizoctonia solani)* (Suppression) Copper Spot *(Gloeocercospora sorghi)* Corticium Red Thread *(Laetisaria fuciformis)* Powdery Mildew *(Erysiphe graminis)* Rusts (*Puccinia* spp.) Brown Patch/Rhizoctonia Blight *(Rhizoctonia solani)* (Recommendation for tank-mix with Prostar 50WP)	0.5	1	**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 curative rate. Subsequent applications should be applied on a preventive schedule and rate.
	0.5	0.5	**PREVENTIVE RATE:** Tank-mix with Prostar 50WP and apply on a 21- to 28-day schedule. Follow use directions and restrictions on Prostar 50WP label with tank-mixing. **CURATIVE RATE:** To control existing infections, tank-mix BAYLETON® 50 with the curative rate of Prostar 50WP. Subsequent applications should be applied on a preventive schedule using the preventive rate of Prostar 50WP.
Anthracnose *(Colletotrichum graminicola)*	1	-	**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.
	-	1	**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)*	0.5 to 2	2	**PREVENTIVE RATE:** Begin applications prior to the appearance of disease symptoms. Depending on anticipated disease severity, apply 1 to 2 oz rates at 14-day intervals for the initial 2 to 3 treatments. Apply subsequent treatments of 0.5 to 1.2 oz at 14- to 28-day intervals. **CURATIVE RATE:** To control existing infections, apply 2 oz at 14-day intervals for the initial 2 to 3 treatments followed by 0.5 to 1 oz at 14- to 28-day intervals.
Stripe Smut *(Ustilago striiformis)*	**Preventive Rates Only** 1		Make the first application in the spring just before the turf 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.

RECOMMENDED APPLICATIONS – TURFGRASS DISEASE CONTROL			
DISEASE	OZ OF BAYLETON® 50 WP TURF AND ORNAMENTAL PER 1,000 SQUARE FEET*		REMARKS
	Preventive Rates Only		
Fusarium Blight *(Fusarium culmorum)* *(Fusarium poae)*	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.
Summer Patch *(Magnaporthe poae)*			
Zoysia patch,	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.
Large patch of zoysia *(Rhizoctonia solani)*			
Bermudagrass decline *(Gaeumannomyces graminis* var. *graminis)*	**Preventive**	**Curative**	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.
Take all patch *(Gaeumannomyces graminis* var. *avenae)*	1 to 2	2	**PREVENTIVE RATE:** Begin applications 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. For take all patch, applications in both spring and fall may be necessary.
(Except California)			**CURATIVE RATE:** To control existing infections, apply 2 oz for the initial treatment followed by 1 to 2 oz at 21- to 28-day intervals. Cultural control practices such as aerification, topdressing, reseeding, and fertilization should 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 *(Typhula incarnata)* (Except California)	**Preventive Rates Only** 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 *(Microdochium nivalis)* (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.

* **Note:** Apply the specified amount of BAYLETON® 50 WP Turf and Ornamental 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® 50 WP Turf and Ornamental Fungicide

Oz/1,000 ft2	Pounds Per Acre
0.25	0.7
0.5	1.4
1.0	2.75
2.0	5.5

ORNAMENTAL PLANT DISEASE CONTROL

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 treated.

PLANTS

Flowering & Foliage Plants (Outdoor)
Ageratum (2b, 3, 4)
Aster (4)
Begonia* (3)
Canna (4)
Carnation (3, 4)
Chrysanthemum (3, 4)
Dahlia (3)
Delphinium (3)
Dendrobium (1c) (Hawaii Only)
Dianthus (4)
Four O'Clock (4)
Geranium* (3, 4)
Hollyhock* (3, 4)
Hydrangea (3)
Iris* (2c)
Marigold (2b, 4)
Nephthytis* (2a)
Pansy (3, 4)
Petunia (3, 4)
Phlox (2b, 3, 4)
Poinsettia (3)
Rose* (3)
Salvia (3, 4)
Sedum (3)
Snapdragon* (3, 4)
Sunflowers (3, 4) (ornamental only)
Sweet peas* (3)
Zinnia* (2b, 3)

Ornamental Shrubs & Trees
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 (2e, 3, 4)
Potentilla (4) (Cinquefoil)
Privet (2b, 3)
Pyracantha (3)
Rhododendron (1a, 2b, 3)
Spirea (3)
Viburnum* (3, 4)
Vitex (2b) (Chaste Tree)

Shade Trees
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)

Flowering & Foliage Plants (Non-commercial Greenhouse [D])
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)
Hydrangea (3)
Kalanchoe (3)
Poinsettia (3)
Rose* (3)
Snapdragon (3, 4)

DISEASES

(1) Flower Blight
a) *Ovulinia* spp. [A]
b) *Sclerotinia* spp. [A]
c) *Collectotrichum* [A]

(2) Leaf Blight/Spots
a) *Cephalosporium* spp. [C]
b) *Cerocospora* spp.
c) *Didymellina* 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.
Phyllactinia spp.
Sphaerotheca spp.
Uncinula spp.

(4) Rusts
a) *Coleosporium* spp.
b) *Cronartium* spp. [B] (Fusiform)
c) *Gymnosporanqium* spp.
d) *Melampsora* spp. [F]
e) *Melampsora farlowii* [A]
f) *Melampsoridium* spp.
g) *Peridesmium* spp. [B]
h) *Phragmidium andersonii*
I) *Puccinia* spp.
j) *Uromyces* spp.
k) *Uredinopsis mirabalis* [A]

(5) Tip Blight
Sirococcus strobilinus [B]

APPLICATION RATES: Except as noted for specific diseases, mix 5.5 ounces of BAYLETON® 50 WP Turf and Ornamental Fungicide in 275 to 550 gallons of water (1/2 – 1 tsp. in 5 gallons water) and apply as a full coverage foliage spray to the point of drip as needed.

[A] Mix 5.5 oz of BAYLETON® 50 WP Turf and Ornamental 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 5.5 oz of BAYLETON® 50 WP Turf and Ornamental 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 5.5 oz of BAYLETON® 50 WP Turf and Ornamental 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] **Non-commercial Greenhouse Applications**

Winter Use -- 0.5 oz in 50 gallons of water or 5.5 oz in 550 gallons of water.

Summer Use -- 1 oz in 50 gallons of water or 5.5 oz in 275 gallons of water.

Mix specified amount of BAYLETON® 50 WP Turf and Ornamental 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 5.5 ounces of BAYLETON® 50 WP Turf and Ornamental 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 5.5 ounces in 34.3 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 5.5 ounces per 0.69 acres in sufficient water to provide full coverage in nurseries, or 5.5 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.

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. Do not store below freezing (32°F).

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 below. In spill or leak incidents, keep unauthorized people away.

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 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.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer Environmental Science. All such risks shall be assumed by the user or buyer.

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NET CONTENTS:

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