

PM 22, 3125-370 1048

NOV 13 1990

Mr. John S. Thornton
Mohay Corporation
Agricultural Chemicals Division
P.O. Box 4913
Kansas City, MO 64120-0013

Dear Mr. Thornton:

Subject: Add Disease - Pine Tree Decline
Bayleton 009 EC
EPA Registration No. 3125-370
Your Submission Dated August 16, 1990

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

1. Make the labeling change listed below before you release the product for shipment bearing the amended labeling:
 - Under specific directions for pine tree decline, indicate the organisms involved and indicate the frequency of repeat applications needed to adequately suppress this disease.
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,

SC

BEST AVAILABLE COPY

Susan Lewis
Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (H7505C)

Enclosure

54355:I:Stone:L21-3:KENCO:11/06/90:12/06/90:CL:vo:DD:de

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

370-7082.YLD

PM 22 3125-370
U.S. LABEL(S)

Base Pre-Reg. (7082)

2078

Reason to Issue: For Pine shade trees,
add suppression of symptoms of pine
tree decline.

Date of Draft: 8/13/90 Pre-Reg (S)

EPA Reg. No. 3125-370

BAYLETON® 009 EC

Turf and Ornamental Fungicide

SYSTEMIC FUNGICIDE

FOR CONTROL OF CERTAIN DISEASES ON FLOWERS, FOLIAGE PLANTS, SHRUBS,
TURF AND SHADE TREES

ACTIVE INGREDIENT:

1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1H
-1,2,4-triazol-1-yl)-2-butanone 0.88%

INERT INGREDIENTS 99.12%
100.00%

Contains 0.15 ounces by weight of
1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1H
-1,2,4-triazol-1-yl)-2-butanone per pint.

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

EPA Reg. No. 3125-370
EPA Est. 3125-M0-1

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

NET CONTENTS _____ PINTS

MOBAY CORPORATION
A Bayer USA INC. COMPANY
AGRICULTURAL CHEMICALS DIVISION
SPECIALTY PRODUCTS GROUP
Box 4913, Kansas City, Mo. 64120

Note: Underlined letters in chemical nomenclature should be italicized when printed,
not underlined.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Harmful if inhaled. Avoid breathing vapor or spray mist.

This product may cause allergic skin reactions.

Keep out of reach of children.

Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

STATEMENTS OF PRACTICAL TREATMENT

If eyes are contaminated, flush eyes with plenty of water. Call a physician if irritation persists. If on skin, wash skin immediately with soap and warm water. If irritation occurs, get medical attention. If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention. If swallowed, 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, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. Never give anything by mouth to an unconscious person. Get medical attention immediately.

In case of poisoning, call a physician or Poison Control Center. Have patient lie down and keep quiet.

NOTE TO PHYSICIAN: No specific antidote is available. Treat symptomatically.

SYMPTOMS OF POISONING: No specific symptoms. Acute poisoning is accompanied by hyperactivity followed by sedation.

In case of poisoning, it is also requested that Mobay Corporation, Agricultural Chemicals Division, Kansas City, Missouri, be notified. Telephone: Area Code 816-242-2000; nights or weekends: Area Code 816-242-2582.

ENVIRONMENTAL HAZARDS

Do not use on crops grown for food or forage. Do not apply directly to water or wetlands. Do not contaminate water by cleaning of equipment or disposal of wastes.

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

4 of 8

AVISO:

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.)

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

IMPORTANT: Read these entire Directions and Conditions of Sale before using BAYLETON 009 EC Turf and Ornamental 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. MOBAY 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 MOBAY 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 plant root systems are established and actively growing. Applications should be applied at recommended intervals to maintain disease control.

Do not contaminate feed or food.

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

RECOMMENDED APPLICATIONS TURF GRASS DISEASE CONTROL			
DISEASES	Pints of BAYLETON 009 EC Turf & Ornamental Fungicide Per 1,000 Sq. Ft.*		REMARKS
	Preventative	Curative	
Dollar Spot	1 3/4	-	PREVENTIVE RATE: Apply recommended rate on 30 day intervals. Protective activity of BAYLETON fungicide may extend for as long as 60 days dependent upon environmental conditions.
	-	3 1/2	CURATIVE RATE: To control existing infections, apply the curative rate. Subsequent applications should be applied on a preventive schedule and rate.

**RECOMMENDED APPLICATIONS
TURF GRASS DISEASE CONTROL**

Pints of BAYLETON 009 EC
Turf & Ornamental Fungicide
Per 1,000 Sq. Ft.*

DISEASES**REMARKS**

Preventative Curative

Copper Spot
Powdery Mildew
Red Thread
(Laetisaria
fuciformis)

1 3/4

3 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 fungicide can be greater than 30 days depending on environmental conditions.

Rusts

Brown Patch
(Rhizoctonia
solani)
(Suppression)

CURATIVE RATE:

To control existing infections, apply the curative rate. Subsequent applications should be applied on a preventive schedule and rate.

Anthracnose
Poa Annua Decline

3 1/2

3 1/2

Apply at 30 day intervals as necessary for seasonal control. Dependent upon environmental conditions, residual control may be extended to 45 days.

Preventative Rates Only

Stripe Smut

3 1/2

Make a single application in spring as grass growth begins.

Fusarium Blight
(Fusarium
culmorum)
(Fusarium poae)
Summer Patch
(Phialophora
graminicola)

3 1/2

Apply first application in mid-June or 30 days prior to time this blight normally becomes evident. Applications should be made on 30 day intervals.

Pink Snow Mold
Fusarium Patch
(Fusarium nivale)
Southern Bright
(Sclerotium
rolfsii)

3 1/2 to 7

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 snow cover, or when turf is dormant. Use higher rate in areas with a history of severe disease damage.

Note: *Apply the specified amount of BAYLETON 009 EC Turf and Ornamental Fungicide in 2 to 4 gallons of spray per 1,000 sq. ft. Make all applications after mowing and allow foliage to dry thoroughly before irrigation. Do not use clippings for animal feed.

ORNAMENTAL PLANT DISEASE CONTROL

PLANTS (Disease controlled reference)

DISEASES

Flowering and Foliage
Plants (Outdoor)

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)
Sedum (3)
Snapdragon (3,4)
Sunflowers (3,4)
(ornamental only)
Zinnia (2b,3)

Shade Trees

As. (3)
Aspen (3,4)
Balsam (4)
Birch (3,4)
Buckeye (3)
Chestnut (3)
Cottonwood (3,4)
Elm (3)
Fir (4)
Locust (3)
Maple (3)
Paulownia (3)
Oak (3)
Pine (4,5,6)
Poplar (3,4)
Russian Olive (2b,4)
Sycamore (3)
Vitex (2b)
Walnut (3)
Willow (3,4)

Hawaii Only

Dendrobium (1c)

Flowering Foliage and Woody
Shrubs

Amelanchier (3)
Azalea (1a,3)
Barberry (3,4)
Buckthorn (4)
Camellia (suppression of 1b)
Crabapple (flowering) (3,4)
Crape-Myrtle (3)
Dogwood (3)
Euonymus (3)
Gardenia (3)
Hawthorn (3,4)
Holly (3)
Juniper (4)
Leucothoe (2b)
Lilac (3)
Mock-Orange (3,4)
Mountain Laurel (1a,2b,3)
Ninebark (3)
Pear (Flowering) (3)
Photinia (2d,3,4)
Potentilla (4)
(Cinquefoil)
Privet (2b,3)
Pyracantha (3)
Rhododendron (1a,2b,3)
Rose (3)
Spirea (3)
Viburnum (3,4)

Flowering and Foliage Plants

(Greenhouse****)
African Violet (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)

- (1) Flower Blight
a. Ovulinia spp.*
b. Sclerotinia spp.*
c. Colletotrichum*

- (2) Leaf Blight/Spots
a. Cephalosporium spp.***
b. Cerocospora spp.
c. Didymellina spp.**
d. Entomosporium spp.***

- (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.**
(Fusiform)
c. Gymnosporangium spp.
d. Helampsora spp.
e. Helampsoridium spp.
f. Peridermium spp.**
(Gall)
g. Phragmidium andersonii.
h. Puccinia spp.
i. Uromyces spp.
j. Uredinopsis mirabilis*
.....

- (5) Tip Blight
Siroccoccus
strobilinus**
.....

- (6) Pine Tree Decline
Suppression of symptoms
(See NOTE below)

ORNAMENTAL PLANT DISEASE CONTROL (Cont'd)

NOTE: PINE TREE DECLINE (suppression of symptoms)

Use 1.3 ml of BAYLETON 009 EC per inch of trunk circumference. Apply using a low pressure trunk injection system. Place injectors evenly around the circumference of the trunk 4 to 5 feet from the base of the tree. Use one injector site per inch of trunk diameter. In addition to the BAYLETON 009 EC being used, a liquid fertilizer solution containing 1% iron plus 1% zinc in chelated form should be combined on a 1 to 1 ratio with the BAYLETON 009 EC and injected at the required rate for BAYLETON.

Applications should be made from mid-November to mid-March in Florida. In other geographical areas applications should be made when resin flow will not impede the injection and release of the BAYLETON 009 EC.

APPLICATION RATES: Except as noted for specific diseases, mix 1 to 2 tablespoonfuls (0.5 to 1 fl. oz.) BAYLETON 009 EC in 1 gallon of water and apply as a full coverage foliage spray to the point of drip as needed.

*Mix 2 to 4 fl. ozs. of BAYLETON 009 EC in 1 gallon of water and apply as a full-coverage foliar spray to the point of drip. Applications for flower blight should begin at the expanded bud stage (color showing). Use multiple applications at 7-to 14-day intervals as needed dependent upon bloom periods.

**Mix 4 fl. ozs. of BAYLETON 009 EC plus sufficient spreader sticker for good coverage in 1 gallon of water. Apply in a spray application to the point of run-off on an as needed basis. Excessive rates or excessive applications may result in a shortening of the flower stalk on iris.

***Mix 2 to 4 fl. ozs. of BAYLETON 009 EC in 1 gallon of water and apply as a full coverage foliar spray to point of run-off. Apply in early spring as growth starts and reapply 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.

******Greenhouse Applications**

Winter Use -- 1 tbsp. of BAYLETON 009 EC

Summer Use -- 2 tbsp. of BAYLETON 009 EC

Mix specified amount of BAYLETON 009 EC in 1 gallon 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.

COMPATIBILITY: BAYLETON 009 EC is compatible with many registered insecticides and fungicides. To determine the compatibility of BAYLETON 009 EC 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.

ORNAMENTAL PLANT DISEASE CONTROL (Cont'd)

SPRAY ADDITIVES: Use of various spray additives such as spreader stickers 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 009 EC 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): Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or 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 container is leaking invert to prevent leakage. If the container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides above. In spill or leak incidents, keep unauthorized people away. You may contact the Mobay emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Mobay Kansas City Emergency Response Telephone No. is 816-242-2582, or contact Chemtrec at 800-424-9300.

BAYLETON is a Reg. TM of Bayer AG, Germany.