

APR 13 1995

John S. Thornton  
Bayer Corporation  
P.O. Box 4913  
Kansas City, MO 64120-0013

Dear Mr. Thornton:

Subject: Revised Directions for Use - Add Pests  
Bayleton 25 Turf and Ornamental Fungicide  
EPA Registration No. 3125-413  
Your Submission Dated April 4, 1995

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 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,

/s/

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

Enclosure

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1910

# BAYLETON 25 T&O

413-8484.YLD

U. S. LABEL

Base Pre-Reg (8484)

2 9/10

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 control table. 04/03/95 Draft: Add groundwater advisory.

Date of Draft: 04/03/95 (Pre-Reg)(T)  
Supersedes Draft Dated: 06/03/95

## BAYLETON® 25

### Turf and Ornamental Fungicide Systemic Fungicide in Water Soluble Packets

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

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. 3125-413  
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

### 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.)

**ACCEPTED**

APR 13 1995

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
registered for the pesticide  
classified under  
EPA Reg. No. 3125-413

**Bayer** 

Unregistered label text is highlighted in redlining.  
Text to be deleted is indicated by ~~strikeout~~.

**BEST COPY AVAILABLE**

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

**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.

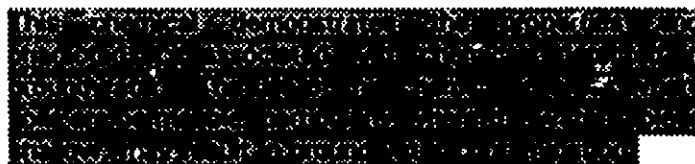
**SYMPTOMS OF POISONING:** The compound does not cause any definite symptoms that would be diagnostic. Poisoning is accompanied by hyperactivity followed by sedation.

**NOTE TO PHYSICIAN:** No specific antidote. Treat symptomatically.

**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.

**IMPORTANT:** Read these entire Directions and Conditions of Sale before using BAYLETON 25 Turf and Ornamental 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. BAYER 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 BAYER 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 Turf and Ornamental 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.

To prepare the spray mixture, drop the required number of unopened 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 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 25 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 - TURF GRASS DISEASE CONTROL			
DISEASE	OZ OF BAYLETON 25 TURF AND ORNAMENTAL PER 1,000 SQUARE FEET*		REMARKS
Dollar Spot ( <i>Sclerotinia homoeocarpa</i> )	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.
	1	-	
Copper Spot ( <i>Gloeocercospora sorghi</i> ) Powdery Mildew ( <i>Erysiphe graminis</i> ) Cortium Red Thread ( <i>Laetisaria fuciformis</i> ) Rusts ( <i>Puccinia</i> spp.) Brown Patch/Rhizoctonia Blight ( <i>Rhizoctonia solani</i> ) (Suppression)	-	2	CURATIVE RATE: To control existing infections, apply the curative rate. Subsequent applications should be applied on a preventive schedule and rate.
	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 curative rate. Subsequent applications should be applied on a preventive schedule and rate.
Anthracnose ( <i>Colletotrichum graminicola</i> )	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 ( <i>Sclerotium rolfsii</i> )	Preventive	Curative	PREVENTIVE RATE: 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 RATE: 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 2		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.
Fusarium Blight ( <i>Fusarium culmorum</i> ) ( <i>Fusarium poae</i> ) Summer Patch ( <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 - TURF GRASS DISEASE CONTROL (Continued)

DISEASE	OZ OF BAYLETON 25 TURF AND ORNAMENTAL PER 1,000 SQ FEET*	REMARKS
		
<b><i>Gaeumannomyces graminis</i> var. <i>graminis</i></b>  (Such as Bermuda grass decline, take all patch on centipede grass)  (Except California)	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.  <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 aeration, 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)	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, or when turf is dormant.
Pink Snow Mold/Fusarium Patch <i>(Microdochium nivale)</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 nivale)</i> (California only)	Single Application  5 to 8	Apply in the fall, 30 days prior to turf dormancy. 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 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 25 Turf and Ornamental Fungicide

Oz/1,000 ft <sup>2</sup>	Pounds Per Acre	Number of 11.0z PVA Packets Per Acre
0.5	1.4	2
1.0	2.75	4
2.0	5.5	8
4.0	11.0	16

7.910

## ORNAMENTAL PLANT DISEASE CONTROL

PLANTS		DISEASES
<b>Flowering &amp; Foliage Plants (Outdoor)</b> 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) Iris* (2c) Marigold (2b, 4) Nephthytis* (2a) Pansy (3, 4) Petunia (3, 4) Phlox (2b, 3, 4) <del>Portulaca</del> (2) Rose* (3) Salvia (3, 4) Sedum (3) Snapdragon* (3, 4) Sunflowers (3, 4) (ornamental only) Sweet peas* (3) Zinnia* (2b, 3)	<b>Ornamental Shrubs &amp; Trees</b> 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) ✓	<b>(1) Flower Blight</b> a) <i>Ovulinia</i> spp. [A] b) <i>Sclerotinia</i> spp. [A] c) <i>Collectotrichum</i> [A]
<b>Shade Trees</b> 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)	<b>Flowering &amp; Foliage Plants</b> <del>Greenhouse</del> (D) African Violet* (3) Azalea (1a, 2f, 3) Calendula (3, 4) Camellia* (3, 4) Chrysanthemum* (3, 4) Cineraria (3) Crassula (3) Daisy (3, 4) Fern, Boston (4) <i>Desmella</i> spp. Geranium* (3, 4) Gerbers (3) Grape Leaf Ivy* (3) Kalanchoe (3) <del>Rose</del> (3) Rose* (3) Snapdragon (3, 4)	<b>(2) Leaf Blight/Spots</b> a) <i>Cephalosporium</i> spp. [C] b) <i>Cercospora</i> spp. c) <i>Didymella</i> spp. [B] d) <i>Didymascella thujina</i> [G] e) <i>Entomosporium</i> spp. [C] f) <i>Exobasidium</i> spp. [E]
		<b>(3) Powdery Mildew</b> <i>Erysiphe</i> spp. <i>Microsphaera</i> spp. <i>Oidium</i> spp. <i>Podosphaera</i> spp. <i>Phyllosticta</i> spp. <i>Sphaerotheca</i> spp. <i>Uncinula</i> spp.
		<b>(4) Rusts</b> a) <i>Coleosporium</i> spp. b) <i>Cronartium</i> spp. [B] (Fusiform) c) <i>Gymnosporangium</i> spp. d) <i>Melampsora</i> spp. [F] e) <i>Melampsora farlowii</i> [A] f) <i>Melampsoridium</i> spp. g) <i>Peridermium</i> spp. [B] h) <i>Phragmidium andersonii</i> i) <i>Puccinia</i> spp. j) <i>Uromyces</i> spp. k) <i>Uredinopsis mirabilis</i> [A]
		<b>(5) Tip Blight</b> <i>Sirococcus strobilinus</i> [B]

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## DIRECTIONS FOR USE (Continued)

**APPLICATION RATES:** Except as noted for specific diseases, mix 11 ounces of BAYLETON 25 Turf and Ornamental 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 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 11 oz of BAYLETON 25 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 11 oz of BAYLETON 25 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 - 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 in 275 gallons of water.

Mix specified amount of BAYLETON 25 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 11 ounces of BAYLETON 25 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 *Metamspora 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 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 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 Bayer emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer Kansas City Emergency Response Telephone No. is 816-242-2582, or contact Chemtrec at 800-424-9300.

Bayer Corporation  
Specialty Products  
Box 4913, Kansas City, MO 64120-0013

**LABELING FOR 11 OUNCE PVA PACKET**

**BAYLETON**

**25 Turf and Ornamental Fungicide**

**SYSTEMIC FUNGICIDE**

**ACTIVE INGREDIENT:**

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

EPA Reg. No. 3125-413

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

(See Outer Package for Directions and Precautions)

Net Contents 11 Ounces