11 1 File



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

MAR 3 | 1994

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Roy G. Danhaus MONSANTO CO. Agent for: MONSANTO AGRICULTURAL CO. 700 14th Street, NW - Suite 1100 Washington, DC 20005

SUBJECT:

Label Amendment Submission of 03/03/94 in Response to PR Notice 93-7

EPA Reg. No. 524-456

DIMENSION 0.25G TURF HERBICIDE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, successfully REMOVES THE PRODUCT FROM THE SCOPE of PR Notice 93-7. No further alterations to the labeling are necessary to reflect the requirements of the Worker Protection Standard. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted only those changes to your labeling which are necessary to comply with PR Notices 93-7 and 93-11, which reflect the WPS labeling requirements of 40 CFR part 156, subpart K. Any other labeling changes submitted in connection with this amendment application and not directly related to compliance with PR Notice 93-7 or 93-11 have neither been reviewed nor accepted by the Agency. If you wish to make any such changes, you must submit a separate amendment application proposing them. If your product registration is currently suspended, acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

Send to EPA one (1) copy of the final printed labeling.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

James a. Downing

James Tompkins, Deputy Chief

Registration Support Branch Registration Division (7505W)

Enclosures

ACCEPTED **WILL COMMENTS** In EPA Letter Dated MAR 3 | 1994

DIMENSION® 0.25 G Turf Herbicide by Monsanto

Under the Federal Insecticide, Fundicide, and Redenticide Act

FOR PROFESSIONAL TURF APPLICATOR USE ONLY

as amended, for the posticide registered under EPA Reg. No. 524-451

Dimension 0.25 G is a selective herbicide that provides preemergence control of listed annual grasses and broadleaf weeds in established cool and warm-season turfgrasses in lawns and ornamental turf. Kie (or mineral control of the con research purposes.

EPA Reg. No. 524-456

Complete Directions for Use Pamphlet

Dimension is a registered trademark of Monsanto Company.

1994-1

A-853.12-000.00/00

Read the entire label before using this product.

Use only according to label instructions.

Read "LIMIT OF WARRANTY AND LIABILITY" before buying or using. terms are not acceptable, return at once unopened.

REFORMULATION OR REPACKAGING IS PROHIBITED.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Keep out of reach of children.

CAUTION!

Causes eye irritation.



Avoid contact with eyes or clothing.

Wash thoroughly with soap and water after handling.

FIRST AID: IF IN EYES, immediately flush with plenty of water. Get medical attention if irritation persists.

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

Environmental Hazards

This pesticide is toxic to fish. Drift or runoff may adversely affect aquatic organisms. 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.

BIRD CAUTION:

While avian toxicology studies have shown low acute toxicity to birds, the potential for avian reproduction effects is being evaluated. To reduce potential exposure to birds, do not apply this product in split applications; make only one application per year; do not apply more than 185 pounds of this product per acre (0.5 pound active ingredient per acre). Avoid known bird nesting sites and areas where birds are actively feeding when applying this product.

ACTIVE INGREDIENTS:

*This product contains 0.135 pounds of the active ingredient, dithiopyr, per 50 pound bag.

Product protected by U. S. Patent No. 4,692,184. Other patents pending.

DIRECTIONS FOR USE

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

For more information on the use of this product call toll-free 1-800-323-1421.

 $r < f_T$

Storage and Disposal

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

STORAGE:

Store this product in original container only. In case of spill, sweep up material and dispose of material according to label directions.

DISPOSAL:

Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures.

Do not reuse emptied container.

Completely empty bag into application equipment. Dispose of emptied bag(s) in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

GENERAL INFORMATION

This product is a selective herbicide that provides preemergence control of crabgrass and other susceptible annual grasses and broadleaf weeds in established lawns and ornamental turf. This product will not harm nearby established ornamentals when used according to label directions.

PRECAUTIONS

Use of this product on golf greens is not recommended.

DO NOT apply this product to Colonial bentgrass.

For best results, cultural practices that disturb the soil, such as core, spike, hyro-aerification, or verticutting, and topdressing should be done before application of this product. This product should not be applied until turfgrasses have recovered from stressess related to these or other mechanical operations. Irrigation or rainfall within 7 days after application will improve the performance of this product.

Reseeding or sprigging: Reseeding, overseeding, or sprigging of treated areas within 4 months after application of this product may inhibit the establishment of desirable turfgrass. When reseeding

4, Z 11

or overseeding, proper cultural practices such as soil cultivation, irrigation and fertilization should be followed. For best results, use mechanical or power seeding equipment (slit seeders) designed to give good seed-to-soil contact.

This product may be used on seeded, sodded, or sprigged turfgrass that are well-established. Allow the turf to develop a good root system and uniform stand before application.

Use of this product on turfgrazs not well-established, weakened by lack of moisture, chemical injury, insects, disease, or temperature extremes that cause stress will increase the potential for injury. Allow turfgrass weakened by these stresses to recover before application of this product.

DO NOT apply to flowers, vegetables, shrubs or trees.

DO NOT use clippings from treated turf for mulching around vegetables or fruit trees.

DO NOT allow domestic animals to feed or forage on the treated turf.

This product can be applied only once per year at a maximum use rate of 185 pounds per acre (one-half pound active ingredient per acre). DO NOT make repeat or split applications of this product during a single growing season.

TURFGRASSES

When applied as directed under the conditions described, the following established turfgrasses are tolerant to this product:

Cool-Season Grasses

Bentgrass, creeping Agrostis stolonifera

Bluegrass, Kentucky Poa pratensis

Fescue, fine**
Festuca rubra

Festuca arundinacea

Ryegrass, perennial Lolium perenne

Warm-Season Grasses

Bahiagrass
Paspalum notatum

11

Bermudagrass

Cynodon dactylon

Buffalograss

Buchloe dactyloides

Carpetgrass

Axonopus affinis

Centipedegrass

Eremochloa ophiuroides

Kikuyugrass

Pennisetum clandestinum

St. Augustinegrass

Stenotaphrum secundatum

Zoysiagrass

Zoysia japonica

*DO NOT apply this product to Colonial bentgrass. Use of this product on certain varieties of creeping bentgrass, such as 'Carmen', 'Cohansey', or 'Seaside' will result in undesirable turf injury. Not all varieties of creeping bentgrass have been tested.

"The following fine fescue varieties have been found to be sensitive to this product: 'Atlanta', 'Banner', 'Beauty', 'Bilgart', 'CF-2', 'Enjoy', 'HF-93', 'Highlight', 'Ivalo', 'Jamestown', 'Koket', 'Majenta', 'Mary', 'Pennlawn', 'Tamara', 'Tatjana', 'Walforf', and 'Waldina'.

APPLICATION DIRECTIONS

This product provides preemergence control of listed annual grasses and broadleaf weeds when applied prior to their germination in established turfgrass.

Control of Annual Grasses and/or Annual Broadleaf Weeds

This product should be applied prior to the germination of annual grasses and/or broadleaf weeds. Use the higher recommended use rates where weed infestations are dense and/or applications are made early and longer residual control is desirable.

For preemergence control and/or suppression of annual bluegrass and listed winter annual broadleaf weeds, apply this product prior to their germination and emergence. Use the higher recommended use rates where weed infestations are dense.

Refer to the following table for recommended use rates of this product for the preemergence control of annual grasses and/or broadleaf weeds.

Weeds Controlled and Use Rate Recommendations

Weeds	Suggested Use Rate	
	Pounds/A	Pounds/1000 sq. ft.
Crabgrass,	100 to 150°	2.3 to 3.4°
Large		
Smooth		
Southern		
Foxtail,		
Green		
Yellow		
Barnyardgrass	150 to 185*	3.4 to 4.2*
Chickweed		
Clover, hop		
Crabgrass, tropical		
Crowfootgrass		
Dichondra, Carolina		
Lespedeza, common		
Kikuyugrass		
Oxalis,		
Buttercup		
Creeping Woodsorrel		
Yellow Woodsorrel		
Pineappleweed		
Ryegrass		
Annual		
Perennial		
Smutgrass		
Speedwell, corn		
Spurge:		
Prostrate		
Spotted		
Bluegrass, annual	185**	4.2**
Bittercress		
Geranium, Carolina		
Chickweed		
Goosegrass		
Henbit		
Parsley-piert		
Pineappleweed		
Purslane, common		
Shepardspurse		

^{*}Higher use rates are recommended where weed infestations are heavy and/or dense.

8,11

[&]quot;Use of this product at this rate will provide only partial control and/or suppression of listed weeds.

APPLICATION EQUIPMENT AND INSTRUCTIONS

Apply this product with drop or rotary-type spreaders designed to apply granular herbicides. Calibrate application equipment prior to usage, and apply this product uniformly over the turfgrass area. A more uniform application can be made by spreading half of the required amount over the area and then applying the remaining half at a right angle to the previous. Avoid the use of spreaders that would apply this product in narrow rows or concentrated bands. Avoid streaking, skips, or overlaps during application. Check equipment frequently to ensure equipment is functioning properly and applying uniform distribution of granules.

LIMIT OF WARRANTY AND LIABILITY

This Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use pamphlet ("Directions") when used in accordance with those Directions under the conditions described herein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise. Notice of these claims may be made by calling 1-800-323-1421.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY, OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY. IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

Buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement.

EPA Reg. No. 524-456

853.12-000.00/00

19

In case of an emergency involving this product, Call Collect, day or night, (314)694-4000.

PMONSANTO COMPANY 1994

MONSANTO COMPANY AGRICULTURAL PRODUCTS ST. LOUIS, MISSOURI 63167 U.S.A.