

28 OCT 1992

Mr. Roy G. Danhaus
Monsanto Company
Suite 1100
700 14th Street, N.W.
Washington, D.C. 20005

Dear Mr. Danhaus:

Subject: Dimension® 0.25 G Turf Herbicide
EPA Registration No. 524-456
Your Letter Dated October 1, 1992 and
Application Requesting Revision of
Directions for Use and Other Labeling
Revisions Listed in Letter

The labeling revisions proposed in the subject application has been reviewed and found to be acceptable under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) as amended, provided that you:

- o Submit five (5) printed copies of your final printed labeling, before you release the product for shipment.

If this condition is 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 this condition.

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

Sincerely yours,

Joanne I. Miller
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (H-7505C)

Enclosure

EWilson: Diskette #5: 10-22-92

**DIMENSION® 0.25 G Turf Herbicide
by Monsanto**

FOR PROFESSIONAL TURF APPLICATOR USE ONLY

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.

EPA Reg. No. 524-456



Dimension is a registered trademark of Monsanto Company.

1992-1

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. If terms are not acceptable, return at once unopened.

REFORMULATION OR REPACKAGING IS PROHIBITED.

PRECAUTIONARY STATEMENTS

ACCEPTED
Hazards to Humans and Domestic Animals
in EPA Letter Dated:

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.

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended for the pesticide registered under EPA Reg. No.

524-456

BEST AVAILABLE COPY

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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 season ~~year~~; do not apply more than 185 pounds of this product per acre (0.5 ~~pound active ingredient per acre~~ lb ai/A). Avoid known bird nesting sites and areas where birds are actively feeding when applying this product.

ACTIVE INGREDIENTS:

*Dithiopyr, 3,5-pyridinedicarbothioic acid, 2-(difluoromethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-S,S-dimethyl ester.....0.27%

INERT INGREDIENTS:.....99.73%
100.0%

*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 ~~1-800-323-1421~~
1-800-323-1421.

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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 courses is not recommended.~~ ✓

~~Do not apply this product to cotton, tobacco, or alfalfa.~~ ✓

For best results, cultural practices that disturb the soil, such as core ~~soil~~ aeration, or verticutting, ~~and~~ should be done before application of this product. ✓

~~Do not apply this product to lawns that have been recently fertilized with nitrogen.~~

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 or overseeding, proper cultural practices such as soil cultivation, irrigation and fertilization should be followed. **For best results use mechanical or power seeding equipment (silt 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 turfgrass not well-established, weakened by lack of moisture, chemical injury, insects, disease, or temperature extremes that cause stress ~~will~~ may increase the potential for injury. Allow turfgrass weakened by these stresses to recover before application of this product.

DO NOT apply ~~over the top of desirable~~ 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

Fescue, tall
Festuca arundinacea

Ryegrass, perennial
Lolium perenne

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Warm-Season Grasses

- Bahiagrass**
Paspalum notatum
- 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 certain varieties of creeping bentgrass, such as 'Cohansey', or 'Seaside' may result in undesirable turf injury.~~ Use of this product on certain older varieties of creeping bentgrass, such as 'Cohansey', or 'Seaside' may result in undesirable turf injury. ~~Not all varieties of creeping bentgrass have been tested.~~

~~The following are listed as sensitive to this product:~~

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 ~~of annual bluegrass and listed winter annual broadleaf weeds,~~ of annual bluegrass and listed winter annual broadleaf weeds, apply this product ~~in the~~

fall 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: Large Smooth Southern Foxtail: Green Yellow	100 to 150*	2.3 to 3.4*
Barnyardgrass	150 to 185*	3.4 to 4.2*
Common Lespedeza		
Common Purslane		
Corn Speedwell		
Common		
Kikuyugrass		
Oxalis: Buttercup Oxalis Creeping Woodsorrel Yellow Woodsorrel		
Annual Bluegrass		
Bittercress		
Carolina Geranium		
Chickweed		
Goosegrass		
Henbit		
Parsley-piert		
Annual Bluegrass	185*	4.2*
Bittercress		
Carolina Geranium		
Chickweed		
Goosegrass		
Henbit		
Parsley-piert		

Note removed Common Lespedeza from list of weeds controlled.

Pineappleweed

Ryegrass,

Annual

Perennial

Shepherdspurse ✓

Spurge,

Prostrate

Spotted

Higher use rates are recommended where weed infestations are heavy and/or dense.



APPLICATION EQUIPMENT AND INSTRUCTIONS

Apply this product with drop or rotary-type spreaders designed to apply granular herbicides. 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 ("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.

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.

~~REG. NO. 574738~~

853.12-000.00/00

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

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