

5905-538

7-16-2001

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (75-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO. 5905-538	DATE OF ISSUANCE JUL 16 2001
TERM OF ISSUANCE Conditional	
NAME OF PESTICIDE PRODUCT Pro-Mate® Dimension® 0.22% Plus Fertilizer	

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION
(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Helena Chemical Company
6075 Poplar Avenue, Suite 500
Memphis, TN 38119

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is registered in accordance with FIFRA section 3(c)(7)(A), provided that you:

1. Add the phrase "EPA Registration No. 5905-538" to the label before you release the product for shipment.
2. Submit and/or cite all data required for registration/reregistration of this product when the Agency requires all Registrants of similar products to submit such data.
3. Submit one (1) copy of the final printed label, before you release the product for shipment under the stamped enclosed label.

If these conditions are 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 these conditions. A stamped copy of the label is enclosed for your records.

Enclosure

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

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

Joanne I. Miller

DATE
JUL 16 2001

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X-X-X

GUARANTEED FERTILIZER ANALYSIS

TOTAL NITROGEN (N)*	X.XX%
X.XX % Ammoniacal Nitrogen	
AVAILABLE PHOSPHATE (P ₂ O ₅)	X.XX%
SOLUBLE POTASH (K ₂ O)	X.XX%
Derived from: xxxxxxxx, xxxxxx, xxxxx.	
Chlorine (Cl) Max.	X.XX%
*x.xx% Slowly Available Nitrogen from polycoated sulfur coated urea.	
F224	

Pro-Mate[®] Dimension[®] 0.22 %Plus Fertilizer

Weed Control with Premium Lawn Food

Pro-Mate[®] Dimension[®] 0.22% Plus Fertilizer is a selective herbicide that provides control of listed annual grasses and broadleaf weeds in established lawns, ornamental landscape areas, and ornamental turfs, including golf course fairways, roughs, and tee boxes.

Not for use on turf being grown for sale or other commercial use, or for commercial seed production, or for research purposes.

In the state of New York, this product may only be used by Professional Turf Applicators at no more than 5.22 lb./1000 sq. ft. per year (0.5 lbs. a.i./acre/year); and is prohibited from use in Nassau and Suffolk Counties.

ACTIVE INGREDIENT:

Dithiopyr, 3,5-pyridinedicarbothioic acid, 2-(difluoromethyl)-4-(2-methylpropyl)-
6-(trifluoromethyl)-S,S-dimethyl ester..... 0.22%

INERT INGREDIENTS:..... 99.78%

Total:..... 100.00%

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

EPA Reg. No 5905-
Net Contents:

EPA Est. No.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

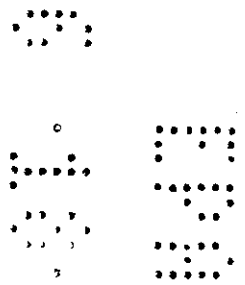
**ACCEPTED
with COMMENTS
in EPA Letter Dated**

JUL 16 2001

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

5905-538

**MANUFACTURED BY:
HELENA CHEMICAL COMPANY
6075 POPLAR AVENUE, SUITE 500
MEMPHIS, TENNESSEE 38119**



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**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION! CAUSES EYE IRRITATION. HARMFUL IF INHALED. Avoid contact with eyes or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Prolonged or frequently repeated skin contact while handling this material may cause allergic reaction in some individuals.

FIRST AID

- IF IN EYES:**
 - Hold eye open and rinse slowly and gently with water for 15-20 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 INHALED:**
 - Move person to fresh air.
 - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
 - Call a poison control center or doctor for further treatment advice.

HOT LINE NUMBER

For additional information, in case of emergency, call 800-424-9300. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and highly toxic to other aquatic organisms including oysters and shrimp. Use with care when applying to turf areas adjacent to any body of water. Drift and runoff from treated turf may adversely affect aquatic organisms in adjacent aquatic sites. 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 apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwaters.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in any manner inconsistent with its labeling. In New York State, this product may only be used by Professional Turf Applicators at no more than 5.22 lb./1000 sq. ft. per year (0.5 lbs. a.i./acre/year); and is prohibited from use in Nassau and Suffolk Counties.

STORAGE AND DISPOSAL

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

STORAGE: Store this product only in its original container in a dry, cool, secured storage area.

PRODUCT 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.

EMPTY CONTAINER DISPOSAL: Do not reuse bag. 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.

SPILL: In case of spill, sweep up material and dispose of material according to "product disposal" directions listed above.

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GENERAL INFORMATION

This product is a selective herbicide that provides control of crabgrass and other annual grasses and broadleaf weeds in established lawns and ornamental turfs, including golf course fairways, roughs, and tee boxes. This product will not harm nearby established ornamentals when used according to label directions.

USE PRECAUTIONS

Turfgrass Safety - This product may be used on seeded, sodded, or sprigged lawns and ornamental turfs that are well-established. The grass must have developed a good root system and a uniform stand, and have received at least two mowings following its seeding, sodding, or sprigging before it can receive its first application of this product. Use of this product on lawns and ornamental turfs that are not well-established, or on those that have been weakened by weather-, pest-, disease-, chemical-, or mechanical-related stress, may increase the chances for turf injury.

This product should only be applied to lawns and ornamental turfs that are composed of the following turfgrass species that have been determined to be tolerant to applications of this product. When applied as directed under the conditions described, the following established turfgrasses are tolerant to this product:

Cool-Season Grasses

Common Name	Scientific Name
Bentgrass, creeping*	<i>Agrostis palustris</i>
Bluegrass, Kentucky	<i>Poa pratensis</i>
Fescue, fine**	<i>Festuca rubra</i>
Fescue, tall	<i>Festuca arundinacea</i>
Ryegrass, perennial	<i>Lolium perenne</i>

Warm-Season Grasses

Common Name	Scientific Name
Bahiagrass	<i>Paspalum notatum</i>
Bermudagrass	<i>Cynodon dactylon</i>
Buffalograss***	<i>Buchloe dactyloides</i>
Carpetgrass	<i>Axonopus affinis</i>
Centipedegrass	<i>Eremochloa ophiuroides</i>
Kikuyugrass	<i>Pennisetum clandestinum</i>
St. Augustinegrass	<i>Stenotaphrum secundatum</i>
Zoysiagrass	<i>Zoysia japonica</i>

*Use of this product on certain varieties of creeping bentgrass, such as 'Cohansey', 'Carmen', 'Seaside' and 'Washington' may result in undesirable turfgrass injury. Not all varieties of creeping bentgrass have been tested.

DO NOT apply this product to Colonial bentgrass (*Agrostis tenuis*) varieties.

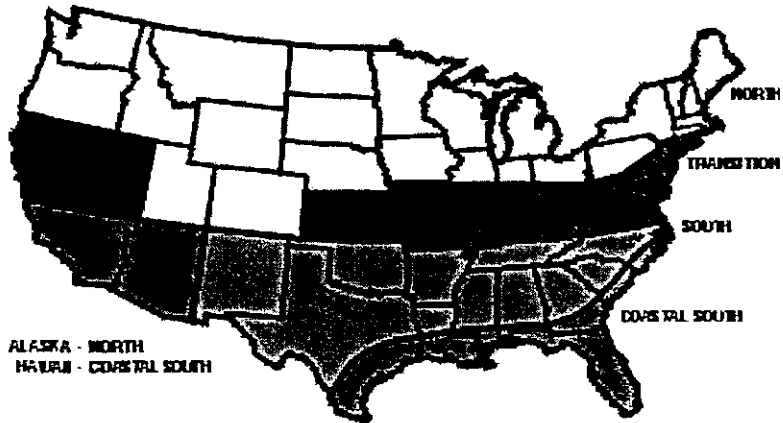
**Use of this product on certain varieties of fine fescue may result in undesirable turf injury. The following fine fescue varieties have been found to be sensitive to this product: 'Atlanta', 'Banner', 'Beauty', 'Biljart', 'CF-2', 'Enjoy', 'HF-93', 'Highlight', 'Ivalo', 'Jamestown', 'Koket', 'Majenta', 'Mary', 'Pennlawn', 'Tamara', 'Tatjana', 'Waldorf' and 'Waldina'. Not all varieties of fine fescue have been tested.

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***DO NOT use this product on seedling Buffalograss in the spring of the first year of establishment until the turfgrass is fully green and has established new roots.

NOTE: It is not possible to evaluate all turfgrass varieties for tolerance to Pro-mate® Dimension® 0.22% with Fertilizer. It is suggested that the user evaluate the response of turfgrass varieties to this product, on a limited area, at recommended use rates, prior to initiating large-scale use.

DIMENSION® TURFGRASS REGIONS



Reseeding, Overseeding or Sprigging

Reseeding, overseeding or sprigging of treated areas should be delayed until 12 weeks from the time of application. Reseeding, overseeding or sprigging before 12 weeks after application may prevent the establishment of desirable turfgrasses.

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 (slit seeders) designed to give good seed to soil contact.

GOLF COURSE PUTTING GREENS

DO NOT apply this product to golf course putting greens.

Other Use Precautions

The early postemergence crabgrass control described below is limited. Postemergence applications are only effective on crabgrass if applied before crabgrass has displayed its fifth leaf or first tiller.

For best results, cultural practices that disturb the soil, such as core-, spike-, or hydro-aerification and verticutting should be done before application of this product. DO NOT apply this product until the grass has recovered from these cultural practices.

- Apply this product directly to established lawns or ornamental turfs only. 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 apply this product to pastures. Keep people and pets off treated areas until dust has settled.

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APPLICATION DIRECTIONS

Control of Crabgrass

Pre-emergence and Early Postemergence Control

- This product provides "preemergence" control of crabgrass (including the large, smooth and southern species) when applied prior to the emergence of crabgrass from the ground in established lawns and ornamental turfs.
- It can also provide "early postemergence" control of crabgrass during the early stages of crabgrass growth after the crabgrass has emerged from the ground; however, it is often difficult to see the very small, early stages of crabgrass in well-established lawns and ornamental turfs. Post-emergence crabgrass control will be obtained only when this product is applied prior to the tillering of crabgrass, which generally corresponds to the time when you can first easily see the crabgrass plants in the lawn or turf. So the practical benefit of this product's additional, early postemergence activity is that (compared to strictly preemergence crabgrass products) it can give the user a 2-4 week longer period of time to make applications and still control crabgrass.

Application Frequency and Timing

- This product may be applied as a single application, as a split application, or as a sequential application for crabgrass control in the spring, summer or fall.
- DO NOT apply more than 5.22 pounds of this product per 1,000 sq ft per application, and no more than 15.66 pounds of this product per 1,000 sq ft per year.
- In the state of New York, this product may only be used by professional applicators at no more than 5.22 lb./1000 sq. ft. per year (0.5 lbs. a.i./acre/year); and is prohibited from use in Nassau and Suffolk Counties.

Spring Applications

For single applications made in the spring or early summer, this product should be applied at the appropriate rate corresponding to one of the three control programs listed in Table 1 below, depending on the user's location, the turfgrass mowing height, and whether the use is considered to be preemergence or early postemergence at the time of the application. The duration of residual weed control provided by this product is directly related to the total rate applied, but will vary somewhat depending on weather, weed pressure, turfgrass competitiveness, and the user's location within a region.

- Use Program #1 for preemergence control at sites where the turfgrass is cut high (e.g., homeowner lawns). This program provides 3-5 months of preemergence crabgrass control. This program should not be used for early postemergence crabgrass control.
- Use Program #2 for preemergence control at sites where (a) turfgrass is cut low (e.g., golf fairways), and (b) turfgrass maintenance or weed control has not been conducted during the previous year. This program provides 4-6 months of preemergence crabgrass control. This program may also be used for early postemergence control of crabgrass.

Subsequent, sequential pre-and/or postemergence applications should be made where longer periods of control are desired.

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Where split fertilizer applications are recommended, the rates in Table 1 may be divided between two applications made 6-10 weeks apart and prior to crabgrass emergence.

Table 1: Recommended Single Application Use Rates*
(Pounds of this product per 1,000 sq ft)

REGION	PROGRAM		
	#1	#2	#3
USE (turfgrass cut)	Preemergence (high-cut turf)	Preemergence (low-cut turf) Postemergence (high-cut turf)	Preemergence (low-cut turf) Postemergence (low-cut turf)
North	1.30 lb/1,000 sq ft	1.91 lb/1,000 sq ft	2.61 lb/1,000 sq ft
Transition	1.91 lb/1,000 sq ft	2.61 lb/1,000 sq ft	3.82 lb/1,000 sq ft
South	2.61 lb/1,000 sq ft	3.82 lb/1,000 sq ft	5.22 lb/1,000 sq ft
Coastal South	3.82 lb/1,000 sq ft	5.22 lb/1,000 sq ft	5.22 lb/1,000 sq ft**

Note: 2.61 lb per 1,000 square feet is equal to 0.25 lb. active ingredient per acre.
 *DO NOT apply more than 5.22 lb of this product per 1,000 sq ft per application, and no more than 15.66 lb of this product per 1,000 sq ft per year. Postemergence control is limited; see "Crabgrass Control" and "Precautions" sections above. Regions include areas listed below. See Map of United States.
 ** May require split or sequential applications for full control.

In the state of New York, this product may only be used by Professional Turf Applicators at no more than 5.22 lb./1000 sq. ft. per year (0.5 lbs. a.i./acre/year); and is prohibited from use in Nassau and Suffolk Counties.

- North: all areas not designated below.
- Transition: DE, KS, KY, MD, MO, NJ, VA, southeastern PA, southern areas of IL, IN, OH, & coastal areas of CT, NY & RI.
- South: AL, AR, AZ, CA, GA, LA, MS, NC, NM, NV, OK, SC, TN & TX.
- Coastal South: HI, FL & southern coastal areas of AL, GA, LA, MS, NC, SC & TX.

Fall Applications

This product can also be applied in the late summer or early fall (late August through November) at the "Program 3" use rates listed in Table 1 to provide control of crabgrass through the early part of the next spring. The fall application may be followed by an appropriate spring application to provide season-long control.

Tips for Improved Control

For best results, apply this product within a few days after mowing and delay mowing again for a few days after the application. When treated lawn or ornamental turf areas are watered or receive significant rainfall within a few days after application of this product, improved weed control may result. Use of split (half-rate) applications spaced 6-8 weeks apart may provide improved weed control.

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Control of Other Grasses and Broadleaf Weeds

Spring Application

Used as directed for crabgrass control in the spring, this product will also control (at the "Program 3" rates) or suppress (at the "Program 2" rates) the following weeds when applied prior to their emergence:

- | | |
|---------------------------|--|
| barnyardgrass | ryegrass (annual & perennial) |
| bluegrass (annual) | smutgrass |
| crowfootgrass | lespedeza (common) |
| foxtail (yellow & green)* | oxalis (buttercup, creeping & yellow woodsorrel) |
| goosegrass | purslane (common) |
| kikuyugrass | speedwell (corn) |
| | spurge (prostrate & spotted) |

*also controlled at the "Program 2" rates.

Fall Applications

Used as directed for late summer or early fall use, for crabgrass control through the early part of the next spring, this product will also control (at the "Program 3" rates) or suppress (at the "Program 2" rates) the following weeds when applied prior to their emergence:

- | | |
|--------------------|---------------------|
| bluegrass (annual) | geranium (Carolina) |
| bittercress | parsley-piert |
| chickweed | pineappleweed |
| henbit | shepherdspurse |

APPLICATION EQUIPMENT AND INSTRUCTIONS

Apply PRO-MATE DIMENSION 0.22%Plus Fertilizer with drop or rotary spreaders designed to apply granular herbicides. Avoid the use of spreaders that would apply this product in narrow rows or concentrated bands. Before each application, calibrate the spreader according to the equipment manufacturer's directions for adjusting the spreader settings such that the spreader delivers the appropriate application rate recommended above. Apply this product uniformly over the lawn or ornamental turf 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 direction. Avoid streaking, skips or overlaps during application. Check equipment frequently to ensure equipment is functioning properly and applying uniform distribution of granules.

CONDITIONS OF SALE - LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

Read the Conditions of Sale - Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions, the failure to follow the label directions, or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for

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any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Chemical Company's election, one of the following:

1. Refund of the purchase price paid by buyer or user for product bought, or
2. Replacement of the product used

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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