

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

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

EPA REGISTRATION NO.

43854-6

DATE OF ISSUANCE

FEB - 7 1996

TERM OF ISSUANCE

Conditional, Expires: December 31, 1997

NAME OF PESTICIDE PRODUCT

Dimension[®] 86 Pre-emergence Weed
Control with Plant Food

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Land Stegmann
One Angelica Street
St. Louis, MO 63147

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 a dithiopyr. For more information with Flitex
Section 9(a)(1) is provided that you:

1. Add the phrase "EPA Registration No. 43854-6" to the label.
2. Add the phrase "This product is a pre-emergence herbicide" to the label.
3. Submit one (1) copy of the final printed label before you release the product for shipment;

and provided that Rohm and Haas Company, the manufacturer of the active ingredient of this product, submits all the required data to continue the registration of dithiopyr as listed in the EPA Fact Sheet No. 223.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with Section 9(a). 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)
Fungicide-Herbicide Branch
Registration Division (7505C)

☐ ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

Joanne I. Miller

DATE

FEB - 7 1996

DIMENSION® 107

PREEMERGENCE WEED CONTROL with PLANT FOOD

Dimension® 107 is a selective herbicide that provides control of listed annual grasses and broadleaf weeds in established lawns and ornamental turfs, including golf course fairways, roughs, and tee boxes. Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

ACTIVE INGREDIENT:
Dihlopyr, 3,5-pyridinedicarbthioic acid,
2-(trifluoromethyl)-4-(2-methylpropyl)-5-
(trifluoromethyl)-S,S-dimethyl ester 0.107%
INERT INGREDIENTS: 99.893%
Total 100.000%

Product protected by U.S. Patent No. 4,892,184. Other patents pending.
EPA Reg. No. 43854- Feed the entire label before using this product. EPA Est. No. 43854-MO-1

Use only according to label instructions. NOTICE: Before using this product, read the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Restrictions and Storage and Disposal Instructions. If the Conditions of Sale and Warranty are not acceptable, return the product unopened within thirty days of purchase to the place of purchase.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

FIRST AID: IF IN EYES: Immediately flush with plenty of water. Get medical attention if irritation persists.
IF INHALED: Remove individual to fresh air. Get medical attention if breathing difficulty develops.

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.

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 washings.

DIRECTIONS FOR USE
It is a violation of Federal law to use this product in any manner inconsistent with its labeling. In the State of New York do not use in Nassau County or Suffolk County.

CONDITIONS OF SALE AND WARRANTY

LANGE STEGMANN CO. warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. LANGE STEGMANN CO. MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. Handling, storage and use of the product by Buyer or User are beyond the control of LANGE STEGMANN CO. and Seller. Risks such as crop injury, ineffectiveness or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, diseases, pest, drift to other crops or property, or other factors not mentioned in the label are assumed by the Buyer or User. IN NO CASE WILL LANGE STEGMANN CO. OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT. (430-C107-PH8 11-03-86)

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.

FERTILIZER GUARANTEE

Nitrogen (N) Variable %
Available Phosphate (P₂O₅) Variable %
Soluble Potash (K₂O) Variable %
The nitrogen material in this product has been coated to provide coated slow release nitrogen (N) derived from ammoniated phosphate, urea and mixture of both.

SPREADER SETTING

Spreader	2-6 lbs.	3-6 lbs.	5-36 lbs.	7-93 lbs.	10-72 lbs.
Cyclone	XXX	XXX	XXX	XXX	XXX
Scotts	XXX	XXX	XXX	XXX	XXX

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 in 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
Bermudagrass	<i>Cynodon dactylon</i>
St. Augustinegrass	<i>Stenotaphrum secundatum</i>
Centipedegrass	<i>Eriochloa ophiuroides</i>
Kentucky bluegrass	<i>Poa pratensis</i>
St. Augustinegrass	<i>Stenotaphrum secundatum</i>
Zoysiagrass	<i>Zoysia japonica</i>

TURFGRASS REGIONS

Northern States	Transition States	Southern States	Coastal South
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DO NOT apply this product to Colonial bentgrass (*Agrostis tenuis*) varieties.

Use of this product on certain varieties of creeping bentgrass, such as 'Cohasset', 'Carmen', 'Seaside', and 'Washington' may result in undesirable turfgrass injury. Not all varieties of creeping bentgrass have been tested. 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', 'Bigard', 'CF-2', 'Enjoy', 'HF-03', 'Highlight', 'Isle', 'Jamestown', 'Kicker', 'Majestic', 'Mary', 'Pantown', 'Tamaris', 'Waldorf', and 'Waldron'. Not all varieties of fine fescue have been tested. 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.

Reseeding, Overseeding, or Sprigging

Reseeding, overseeding, or sprigging of treated areas within 4 months after application of this product may inhibit 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 (sift seeders) designed to give good seed to soil contact.

Golf Course Putting Greens

DO NOT use this product on 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 aeration, spike, or hydro-aeration, 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, vegetable plants, 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.

APPLICATION DIRECTIONS

Control of Crabgrass - Preemergence and Early Postemergence Control.

This product provides "preemergence" control of crabgrass (including the lawn, 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 its early stages of crabgrass growth after the crabgrass has emerged from the ground. Crabgrass control will be obtained only when the product is applied prior to the flowering of crabgrass, which generally occurs soon after the time when you can first easily see the crabgrass plants. The lawn or turf. So the practical benefit of this product's additional, early postemergence activity is that it (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.

Net Weight 50 Pounds

LANGE STEGMANN COMPANY, INC.
1 Angelica Street - St. Louis, MO 63147

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 10.72 pounds of this product per 1,000 sq. ft. per application, and no more than 32.16 pounds of this product per 1,000 sq. ft. per year.

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 at sites where turfgrass is cut high (e.g., homeowner lawns).

Use Program #3 for preemergence control at sites where (a) turfgrass is cut low (e.g., golf fairways) and (b) turf 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 at sites where turfgrass is cut low (e.g., golf fairways).

Subsequent, sequential pre- and/or postemergence applications should be made where longer periods of control are desired. Where split fertilizer applications are recommended the rates in Table 1 may be split across two applications made 6-10 weeks apart and prior to crabgrass emergence.

PROGRAM	Preemergence (low-cut turf)	Preemergence (low-cut turf) Postemergence (high-cut turf)	Preemergence (low-cut turf) Postemergence (low-cut turf)
USE (turfgrass cut)	Preemergence (low-cut turf)	Preemergence (low-cut turf) Postemergence (high-cut turf)	Preemergence (low-cut turf) Postemergence (low-cut turf)
REGION	North	Transition	South
Rate	2.06 lbs./1,000 sq. ft.	3.06 lbs./1,000 sq. ft.	5.36 lbs./1,000 sq. ft.
Rate	3.06 lbs./1,000 sq. ft.	5.36 lbs./1,000 sq. ft.	7.93 lbs./1,000 sq. ft.
Rate	5.36 lbs./1,000 sq. ft.	7.93 lbs./1,000 sq. ft.	10.72 lbs./1,000 sq. ft.
Rate	7.93 lbs./1,000 sq. ft.	10.72 lbs./1,000 sq. ft.	10.72 lbs./1,000 sq. ft.

DO NOT apply more than 10.72 lbs. of this product per 1,000 sq. ft. per application, and no more than 32.16 pounds of this product per 1,000 sq. ft. per year. Postemergence control is limited; see "Control of Crabgrass" and "Use Precautions" sections. Regions include areas listed below. See Map of United States.

North: all other areas.
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.

**May require split or sequential applications for full control.

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 should 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.

Control of Other Grass and Broadleaf Weeds

Spring Applications: 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, bluegrass (annual), crabgrass (annual & perennial), foxtail (yellow & green), goosegrass, kikuyugrass, ryegrass (annual & perennial), smutgrass, leopards (common), oxalis/buttercup, creeping & yellow woodsorrel, purslane (common), speedwell (port), spurge (prostrate & spotted).

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), chickweed, geranium (Caroline), sheepsfoot, spurge (prostrate & spotted), henbit, periwinkle, sheepsfoot.

APPLICATION EQUIPMENT AND INSTRUCTIONS

Apply this product with drop or rotary-type 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 (lbs./1,000 sq. ft.) intended 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 first then applying the remaining half at a right angle to the previous direction. Avoid streaking, skips, or clumping during application. Check equipment frequently to ensure equipment is functioning properly and applying uniform distribution of granules.

Storage and Disposal:

STORAGE: Store this product only in its original container in a dry, cool, secured storage area. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. PRODUCT DISPOSAL: Weeds resulting from the use of this product that cannot be used or chemically digested 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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DIMENSION® 86

PREEMERGENCE WEED CONTROL with PLANT FOOD

Dimension® 86 is a selective herbicide that provides control of listed annual grasses and broadleaf weeds in established lawns and ornamental turfs, including golf course fairways, roughs, and tee boxes. Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

ACTIVE INGREDIENT:

Dithiopyr, 3,5-pyridinedicarboxylic acid,
2-(difluoromethyl)-4-(2-methylpropyl)-6-
(trifluoromethyl)-5-S-dimethyl ester 0.066%

INERT INGREDIENTS:

99.934%
Total 100.000%

Product protected by U.S. Patent No. 4,692,164. Other patents pending.
EPA Reg. No. 43854- Read the entire label before using this product. EPA Est. No. 43854-MO-1

Use only according to label instructions. NOTICE: Before using this product, read the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Restrictions and Storage and Disposal Instructions. If the Conditions of Sale and Warranty are not acceptable, return the product unopened within thirty days of purchase to the place of purchase.

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID: IF IN EYES: Immediately flush with plenty of water. Get medical attention if irritation persists.
IF INHALED: Remove individual to fresh air. Seek medical attention if breathing difficulty develops.

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.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and highly toxic to other aquatic organisms including oysters and shrimp. Use care when applying to turf areas adjacent to any body of water. Drift and runoff from treated turf may easily affect aquatic organisms in adjacent aquatic areas. 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 washings.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling in the State of New York do not use in Nassau County or Suffolk County.

CONDITIONS OF SALE AND WARRANTY

LANGE STEGMANN CO. warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. LANGE STEGMANN CO. MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. Handling, storage and use of the product by Buyer or User are beyond the control of LANGE STEGMANN CO. and Seller. Risks such as crop injury, ineffectiveness or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pest, drift to other crops or property or failure to follow label directions will be assumed by the Buyer or User. IN NO CASE WILL LANGE STEGMANN CO. OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT. (43D-066 PMS 111-03-95)

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.

FERTILIZER GUARANTEE

Nitrogen (N) Variable %
Available Phosphate (P₂O₅) Variable %
Soluble Potash (K₂O) Variable %
The nitrogen material in this product has been coated to provide % coated slow release nitrogen (N) Derived from ammoniated phosphate, urea and munite of potash.

SPREADER SETTING

Spreader	3.33 lbs. 4.80 lbs. 6.67 lbs. 9.17 lbs. 13.34 lbs.
Cyclone	XXX XXX XXX XXX XXX
Scout	XXX XXX XXX XXX XXX

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	Agrostis palustris
Bluegrass, Kentucky	Poa pratensis
Fescue, fine	Festuca rubra
Fescue, tall	Festuca arundinacea
Ryegrass, perennial	Lolium perenne

Warm-Season Grasses

Common Name	Scientific Name
Bahia grass	Paspalum notatum
Bermudagrass	Cynodon dactylon
Buffalograss	Buchloe dactyloides
Carpetgrass	Asiaticum affine
Centipedegrass	Eremochloa ophiuroides
Kikuyugrass	Pennisetum clandestinum
St. Augustinegrass	Stenotaphrum secundatum
Zoysiagrass	Zoysia japonica

TURFGRASS REGIONS

Northern States
Transition States
Southern States
Coastal Southern



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

Use of this product on certain varieties of creeping bentgrass, such as 'Cohasset', 'Carmen', 'Seaside', and 'Washington' may result in undesirable turfgrass injury. Not all varieties of creeping bentgrass have been tested. 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', 'Bigler', 'CF-2', 'Enjoy', 'HF-83', 'Highlight', 'Javelo', 'Jamestown', 'Kokoi', 'Mejenta', 'Mary', 'Pennlawn', 'Tennant', 'Tallent', 'Waldorf', and 'Welding'. Not all varieties of fine fescue have been tested. DO NOT use this product on seeded buffalograss in the spring of the first year of establishment until the turfgrass is fully green and has established new roots.

Reseeding, Overseeding, or Sprigging

Reseeding, overseeding, or sprigging of treated areas within 4 months after application of this product may inhibit 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 (sift seeders) designed to give good seed to soil contact.

Golf Course Putting Greens

DO NOT use this product on golf course putting greens.

Other Use Precautions

The early postemergence crabgrass control described below is limited to early postemergence applications only. It is only effective on crabgrass if applied before crabgrass has displayed its first leaf or first tiller. For best results, cultural practices that disturb the soil, such as core, spike, or hydro-seedification, 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, vegetable, 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.

APPLICATION DIRECTIONS

Control of Crabgrass - Preemergence 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. Postemergence crabgrass control will be obtained only when this product is applied prior to the blooming 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.

Net Weight 50 Pound:

LANGE STEGMANN COMPANY, INC.
1 Angelica Street - St. Louis, MO 63147

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 13.34 pounds of this product per 1,000 sq. ft. per application, and no more than 50.02 pounds of this product per 1,000 sq. ft. per year.

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 intended 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 at sites where turfgrass is cut high (e.g., homeowner lawns).

Use Program #3 for preemergence control at sites where (a) turfgrass is cut low (e.g., golf fairways) and (b) turf 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 at sites where turfgrass is cut low (e.g., golf fairways).

Subsequent, sequential pre- and/or post-emergence applications should be made where longer periods of control are desired. Where split fertilizer applications are recommended the rates in Table 1 may be split across two applications made 6-10 weeks apart and prior to crabgrass emergence.

Table 1 Recommended Single Application Use Rates* (Pounds of this product/1000 sq. ft.)

PROGRAM	USE (turfgrass cut)		
	Preemergence (high-cut turf)	Preemergence (low-cut turf) Postemergence (high-cut turf)	Preemergence (low-cut turf) Postemergence (low-cut turf)
REGION	3.33 lbs./1,000 sq. ft.	4.80 lbs./1,000 sq. ft.	6.67 lbs./1,000 sq. ft.
Northern	3.33 lbs./1,000 sq. ft.	4.80 lbs./1,000 sq. ft.	6.67 lbs./1,000 sq. ft.
Transition	4.80 lbs./1,000 sq. ft.	6.67 lbs./1,000 sq. ft.	9.17 lbs./1,000 sq. ft.
South	6.67 lbs./1,000 sq. ft.	9.17 lbs./1,000 sq. ft.	13.34 lbs./1,000 sq. ft.
Coastal South	9.17 lbs./1,000 sq. ft.	13.34 lbs./1,000 sq. ft.	13.34 lbs./1,000 sq. ft.

*DO NOT apply more than 13.34 lbs. of this product/1000 sq. ft. per application, and no more than 50.02 pounds of this product/1000 sq. ft. per year. Postemergence control is limited; see "Control of Crabgrass" and "Use Precautions" sections. Regions include areas listed below. See "United States" map.

North: all other areas.
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.

*May require split or sequential applications for full control.

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 should 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 a split (half rate) applications spaced 6-8 weeks apart may provide improved weed control.

Control of Other Grass and Broadleaf Weeds

Spring Applications: 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:

bermudagrass, bluegrass (annual), kikuyugrass, ryegrass (annual & perennial), crabgrass, spurge (prostrate & spotted), lespedeza (common), orals/buttercup, creeping & yellow wood sorrel, purslane (common), speedwell (common), 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), chickweed, geranium (Carolina), sheepshead, buttercup, henbit, perilla, and sheepshead.

APPLICATION EQUIPMENT AND INSTRUCTIONS

Apply this product with drop or rotary type 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.

Storage and Disposal

STORAGE: Store this product only in its original container in a dry, cool, secure storage area. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. **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 proper use. **EMPTY CONTAINER DISPOSAL:** Do not reuse bag. Completely empty bag into application equipment. Dispose of emptied bags 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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