

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

EPA REGISTRATION NO.

8378-53

DATE OF ISSUANCE  
OCT - 3 1995

TERM OF ISSUANCE

Conditional, Expires: December 31, 1997

NAME OF PESTICIDE PRODUCT

Dimension® 130 Turf Herbicide  
with Plant Food

NOTICE OF PESTICIDE: ☒ REGISTRATION  
☐ REREGISTRATION

(Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Knox Fertilizer Company  
P.O. Box 248  
Knox, IN 46534

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 conditionally registered in accordance with EPCRA section 3(c)(7)(C) provided that you:

1. Add to the consumer use label the restriction: "Not for use in the State of New York.", directly following the violation statement. Add to the professional use label the restriction: "In the State of New York do not use in Nassau County and Sullivan County.", directly following the violation statement.
2. Add to the non-lawn use label the restriction: "Not for use in the State of New York.", directly following the violation statement. Add to the professional use label the restriction: "In the State of New York do not use in Nassau County and Sullivan County.", directly following the violation statement.
3. Separate the statement "do not apply this product to Colonial centgrass (*Agrostis tenuis*) varieties." from the other statements in this paragraph because it is unrelated to the asterisk, on the professional use label.

Continued on page 2 of this notice

enclosure

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

☐ ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

Joanne L. Miller

DATE

OCT - 3 1995

Page 2 of Notice of Registration

Dimension® 130 Turf Herbicide with Plant Food

EPA Registration No. 8378-53

4. Correct the text of the home lawn use label by adding the "0" omitted from the statement "1 bag to treat 3,470 sq.ft.", "44 lbs./5,000 sq.ft." to read "44.15 lbs/5,000 sq.ft.", "33 lbs./3,479 sq.ft." to read "33 lbs./3737 sq.ft." and the spelling of the word "consequential" in the "Conditions of Sale and Warranty" statements.
5. Submit five (5) copies of the final printed labeling 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 FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. Stamped copies of the labels are enclosed for your records.

**BEST COPY AVAILABLE**



# DIMENSION® 130 Crabgrass Control Plus Lawn Fertilizer - for Home Lawns

3/10

**Contains Dimension® Turf Herbicide  
For Effective Crabgrass Control**

**NON-STAINING**

**Can Be Applied Up to 4 Weeks Longer Than  
Other Crabgrass Preventers and Controls Crabgrass  
All Season Long.**

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

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

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

**ACTIVE INGREDIENT:**

Dithiopyr, 3,5-pyridinedicarbothioic acid, 2-(difluoromethyl)-4-(2-methylpropyl)-  
6-(trifluoromethyl)-S,S-dimethyl ester - - - - - 0.13%

**INERT INGREDIENTS:** - - - - - 99.87%

**TOTAL 100.00%**

Product protected by U.S. Patent No. 4,892,184. Other patents pending.

Read the entire label before using this product. Use only according to label instructions.

**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 of 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.

**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:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Do not reuse empty bag. Wrap in several layers of newspaper and discard in trash.

**SPILL:** In case of spill, sweep up material and use as directed or dispose of listed above.

**CONDITIONS OF SALE AND WARRANTY**

Knox Fertilizer Company warrants that the product conforms to the 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. Knox Fertilizer Company **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 Knox Fertilizer Company 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, pests, drift to other crops or property or failure to follow label directions will be assumed by the Buyer or User. **IN NO CASE WILL Knox Fertilizer Company OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.** (d-13/retl/pm506-15-95)

The Contents of this Bag (11 Pounds) will Treat up to 5,000 Sq.Ft. of Turfgrass.

**Guaranteed Fertilizer Analysis: 22-5-9**

Total Nitrogen (N) XX%

Water-insoluble Nitrogen xx%

Ammoniacal Nitrogen xx%

Urea Nitrogen\*\*\* xx%

Available Phosphate Acid (P2O5) XX%

Soluble Potash (K2O) XX%

Magnesium (Mg) xx%, Iron (Fe) xx%, Manganese (Mn) xx% Nutrient Sources: Sulfur Coated Urea, Urea, Methylene Urea, Ammonium Phosphate, Ammonium Sulfate, Diammonium Phosphate, Sulfate of Potash, Ferrous Sulphate, Manganese Oxide, Magnesium Oxide, Dolomite, Chlorine (Cl), not more than xx%. \*\*\* xx% Slowly Available Urea Nitrogen from Sulfur Coated Urea.

**General Information**

This product is a premium quality combination product that provides both weed control and the required nutrients for optimum turf grass growth all in a single product. It contains Dimension® herbicide, a selective herbicide that can be applied up to 4 weeks longer than other crabgrass preventers and provide up to 4 months control of crabgrass and other grass and broadleaf weeds prior to their establishment in lawns and ornamental turfgrasses. This product will not harm nearby established ornamentals when used according to label.

**Where & When to Use**

This product should only be applied to lawns and ornamental turfgrasses that are well established. (See list of tolerant turfgrasses in the "Use on the following Turfgrasses" section. Use of this product on lawns and ornamental turfgrasses that are not well established, or that have been weakened by stress due to mechanical operations, pests, excessive fertilizers,

**Length of Weed Control**

This product will provide up to 4 months of weed control if applied according to label directions. The actual length of control will vary depending on use rate, weather conditions, condition of the turfgrass, intensity of weed pressure, and the location or "Region" within the United States that this product is being applied. Please check the map below to determine which "Region" of the U.S. that applies to your particular use area.

**North-South Use Regions in the United States**



Reseeding, Overseeding, or Sprigging of turfgrasses into areas that have been previously treated with this product should be delayed until 12 weeks after application.

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

OCT - 3 1995

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

8378-53

**CAUTION:** Causes eye irritation. Harmful to water, fish, and aquatic life. 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 of 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.

**SPILL:** In case of spill, sweep up material and use as directed or dispose of listed above.

#### CONDITIONS OF SALE AND WARRANTY

Knox Fertilizer Company 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. Knox Fertilizer Company **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 Knox Fertilizer Company 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, pests, drift to other crops or property or failure to follow label directions will be assumed by the Buyer or User. **IN NO CASE WILL Knox Fertilizer Company OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.** (d-13ratl.pn508-15-85)

The Contents of this Bag (11 Pounds) will Treat up to 5,000 Sq.Ft. of Turfgrass.

### Guaranteed Fertilizer Analysis: 22-5-9

Total Nitrogen (N)	XX%
Water-insoluble Nitrogen 10%	
Ammoniacal Nitrogen 10%	
Urea Nitrogen*** 10%	
Available Phosphate Acid (P2O5)	XX%
Soluble Potash (K2O)	XX%

Magnesium (Mg) 100% Iron (Fe) 100% Manganese (Mn) 10% Nutrient Sources: Sulfur Coated Urea, Urea, Methylene Urea, Ammonium Phosphate, Ammonium Sulfate, Diammonium Phosphate, Sulfate of Potash, Ferrous Sulphate, Manganese Oxide, Magnesium Oxide, Dolomite, Chlorine (01), not more than 10%. \*\*\* 10% Slowly Available Urea Nitrogen from Sulfur Coated Urea.

### General Information

This product is a premium quality combination product that provides both weed control and the required nutrients for optimum turf grass growth all in a single product. It contains Dimension® herbicide, a selective herbicide that can be applied up to 4 weeks longer than other crabgrass preventers and provide up to 4 months control of crabgrass and other grass and broadleaf weeds prior to their establishment in lawns and ornamental turf-areas. This product will not harm nearby established ornamentals when used according to label.

### Where & When to Use

This product should only be applied to lawns and ornamental turfgrasses that are well established. (See list of tolerant turfgrasses in the "Use on the following Turfgrasses" section. Use of this product on lawns and ornamental turfgrasses that are not well established, or have been weakened by stress due to mechanical operations, pests, excessive temperatures, or lack of moisture may increase the chances for turfgrass injury.

### How To Apply - Application Equipment and Instructions

This product can be applied with a drop or rotary type spreader designed to apply granular fertilizers. For best results, apply the product evenly and uniformly over the turfgrass area avoiding streaking, skips or overlaps. 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. Adjust the spreader settings such that the spreader delivers the appropriate application rates of this product as recommended below.

\*A more uniform application can be made by spreading one-half of the recommended amount of this product over the turfgrass area and then applying the remaining one-half of this product at a right angle to the previous application direction. \*See 1/2 rate in Spreader Settings. Check application equipment frequently to insure equipment is functioning properly and applying a uniform distribution of product.

### Recommended Use Rate For This Product

Region of U.S.	Length of Weed Control	
	2-3- Months Control	3-4- Months Control
North	1 Bag to treat 5,000 sq.ft.	1 Bag to treat 3,47 sq.ft.
South	1 Bag to treat 3,470 sq.ft.	1 Bag to treat 2,500 sq.ft.

### Spreader Settings For the Above Applications

Spreader	5,000 SQ.FT.		3,470 SQ.FT.		2,500 SQ.FT.	
	1/2 rate	full rate	1/2 rate	full rate	1/2 rate	full rate
EV-N SPRED Rotary(2600)	XX	XX	XX	XX	XX	XX
Ortho Drop (5000)	XX	XX	XX	XX	XX	XX
Ortho Rotary (5000)	XX	XX	XX	XX	XX	XX
Precision Rotary	XX	XX	XX	XX	XX	XX
Republic EZ Drop	XX	XX	XX	XX	XX	XX
Republic EZ Grow	XX	XX	XX	XX	XX	XX
Republic EZ Rotary	XX	XX	XX	XX	XX	XX
Quaker Rotary	XX	XX	XX	XX	XX	XX
Scotts Drop (PF3)	XX	XX	XX	XX	XX	XX
Scotts Easy Green	XX	XX	XX	XX	XX	XX
Scotts Speedy Green	XX	XX	XX	XX	XX	XX
True Temper Rotary	XX	XX	XX	XX	XX	XX

### When To Apply - Application Timings

This product may be applied either in the spring or in the fall for the control of weeds. When applied in the fall, a sequential or second application should be made the following spring to provide season-long control of weeds, however, DO NOT reseed, overseed or sprig turfgrass within 16 weeks after application due to potential turfgrass injury to the newly reseeded, overseeded or sprigged turfgrasses.

### Length of Weed Control

This product will provide up to 4 months of weed control if applied according to label directions. The actual length of control will vary depending on use rate, weather conditions, condition of the turfgrass, intensity of weed pressure, and the location or "Region" within the United States that this product is being applied. Please check the map below to determine which "Region" of the U.S. that applies to your particular use area.

#### North-South Use Regions in the United States



Reseeding, Overseeding, or Sprigging of turfgrasses into areas that have been previously treated with this product should be delayed until 16 weeks after application. Reseeding, overseeding, or sprigging within 16 weeks or earlier after application may inhibit the establishment of the newly reseeded, overseeded or sprigged turfgrasses. DO NOT apply more than 8.53 pounds of this product per 1,000 square feet of turfgrass area during the year which is equivalent to 44 lbs. / 5,000 sq.ft.; 33 lbs. / 3,479 sq.ft.; OR 22 lbs. / 2,500 sq.ft.)

DO NOT apply to flowers, vegetables, or fruit trees. DO NOT use clippings from treated turf for mulching around flowers, vegetables or fruit trees. DO NOT apply this product to pastures.

Keep people and pets off treated areas until dust has settled.

### Weeds Controlled/Suppressed

This product will provide control of crabgrass and other grass and broadleaf weeds when applied prior to their establishment in established lawns and ornamental turfgrasses.

Grass Weeds		Broadleaf Weeds	
Annual Bluegrass	Goosegrass	Bittercrass	Creeping Oxalis
Annual Ryegrass	Green Foxtail	Buttercup Oxalis	Henbit
Barnyardgrass	Kikuyugrass (seedling)	Carolina Geranium	Parsley-plant
Crabgrass	Perennial Ryegrass	Chickweed	Pineappleweed
Crowfootgrass	Smulgrass (seedling)	Common Lespedeza	Prostrate Spurge
	Yellow Foxtail	Common Purslane	Spotted Spurge
		Corn Speedwell	Yellow Woodsorrel

### Use on the following Turfgrasses

This product can be applied to the following turfgrasses when applied as directed:

Cool-Season Turfgrasses	Warm Season Turfgrasses
Creeping Bentgrass	Bahiagrass
Fine Fescues	Bermudagrass
Kentucky Bluegrass	Buffalograss
Perennial Ryegrass	Carpograss
Tall Fescues	Centipedegrass
	St. Augustinegrass
	Zoysiagrass

This product should be applied in the spring or fall prior to the establishment of weeds in established lawns and ornamental turfgrasses.

It can be applied up to 4 weeks longer than other crabgrass preventers and still provide season-long weed control. This is due to the Dimension® herbicide component of this combination product. It provides both preventative (preemergence) control of crabgrass and other weeds when applied prior to their germination and postemergence control of crabgrass. The postemergence control provided by this product is limited to crabgrass only and will provide control of crabgrass when applied up to 4 weeks after crabgrass germination. Application of this product later than 4 weeks after crabgrass germination will result in reduced control of crabgrass. For control of other grass and broadleaf weeds, this product must be applied as a preventative treatment before their germination. Only crabgrass can be controlled with delayed applications after germination.

Tip for Improved Weed Control: For best results, apply this product within a few days after mowing and delay further mowings after the application until the lawn or ornamental turfgrass has been watered or received significant rainfall to dissolve the fertilizer granules. Improved weed control may be observed when treated lawn or ornamental turfgrass is watered or receives rainfall within a few days after application of this product.

EPA Reg. No. 8378- EPA Est. No. 8378-IN-1  
Net Weight 11 Pounds

# KNOX FERTILIZER COMPANY, INC.

P.O. Box 248 - Knox IN 45634

# DIMENSION<sup>®</sup> 130

## TURF HERBICIDE with PLANT FOOD

Dimension<sup>®</sup> 80. is a selective herbicide that provides control of listed annual grasses and broad-leaf 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 INGREDIENTS:

Dithiopyr, 3,5-pyridinedicarbothioic acid,  
2-(difluoromethyl)-4-(2-methylpropyl)-6-  
(trifluoromethyl)-S,S-dimethyl ester ..... 0.13%

INERT INGREDIENTS: ..... 99.87%

ACCEPTED 100.00%

with COMMENTS

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

OCT - 3 1995

EPA Reg. No. 8378-

EPA Est. no. 8378-IN-1

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

8378-53

Read the entire label before using this product.

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.

Net Weight 50 Pounds

**KNOX FERTILIZER COMPANY, INC.**

**P.O. BOX 248**

**KNOX, IN 46534**

### 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.

### CONDITIONS OF SALE AND WARRANTY

KNOX FERTILIZER COMPANY 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. KNOX FERTILIZER COMPANY 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 KNOX FERTILIZER COMPANY 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 KNOX FERTILIZER COMPANY OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

### 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(P<sub>2</sub>O<sub>5</sub>) - - - - - Variable %  
Soluble Potash (K<sub>2</sub>O) - - - - - Variable %

The nitrogen and potash materials in this product have been coated to provide \_\_\_% coated slow release nitrogen(n) and \_\_\_% coated slow release soluble potash (K<sub>2</sub>O).  
Derived from polymer coated urea and polymer coated nitrate of potash.

### SPREADER SETTING

Lbs. of product to apply /1,000 sq.ft.

Spreader	2.20 lbs.	3.17 lbs.	4.41 lbs.	6.53 lbs.	8.83 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 to this product:





### Cool-Season Grasses

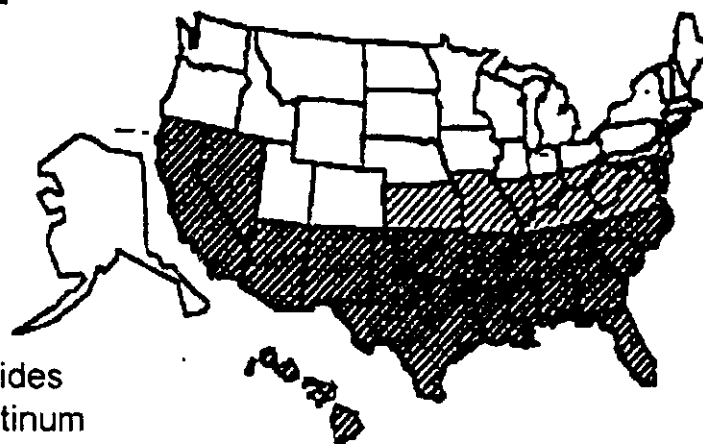
Common Name	Scientific Name
Bentgrass, creeping*	<i>Agrostis palustris</i>
Bluegrass, Kentucky	<i>Poa pratensis</i>
Fescue, fine**	<i>Festuca rubra</i>
Fescue, tall	<i>Festuca arundinacea</i>
Ryegrass, perennial	<i>Lolium perenne</i>

### 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>

### 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 'Cohansey', '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', 'Bilgart', '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.

\*\*\*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 (slit 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-, 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.

## 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 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 8.83 pounds of this product per 1,000 sq.ft. per application, and no more than 26.49 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.

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

PROGRAM	#1	#2	#3
USE (turfgrass cut)	Preemergence ( <u>high-cut turf</u> )	Preemergence ( <u>low-cut turf</u> ) Postemergence (high-cut turf)	Preemergence ( <u>low-cut turf</u> ) Postemergence (low-cut turf)
REGION			
North	2.20 lbs./1,000 sq.ft.	3.17 lbs./1,000 sq.ft.	4.41 lbs./1,000 sq.ft.
Transition	3.17 lbs./1,000 sq.ft.	4.41 lbs./1,000 sq.ft.	6.53 lbs./1,000 sq.ft.
South	3.37 lbs./1,000 sq.ft.	6.53 lbs./1,000 sq.ft.	8.83 lbs./1,000 sq.ft.
Coastal South	6.53 lbs./1,000 sq.ft.	8.83 lbs./1,000 sq.ft.	8.83 lbs./1,000 sq.ft.**

\*DO NOT apply more than 8.83 lbs. of this product/1000 sq. ft. per application, and no more than 26.49 pounds of this product/1000 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.

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

\*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 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, secured 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 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.