

MAY 1992

Mr. J. Keith Kelly  
Chemical Products Manager  
GRO TEC, Inc.  
P.O. Box 290  
Madison, GA 30650

Dear Mr. Kelly:

Subject: Pennington Crabgrass Preventer 20 with Fertilizer  
EPA Registration No. 59144-11  
Application Dated November 10, 1992, Requesting  
Amendment of Registration To Simplify and  
Clarify Use Directions: Deleting Use for  
Landscapes, Adding Applicator Equipment  
Information for Applying Product and Clarifying  
Timing of Application, "Apply 2 to 3 weeks  
before weed seeds germinate" to Assure the  
Expected Performance of This Product

The proposed subject amendments to the labeling of  
the subject pesticide product registration are acceptable  
under the Federal Insecticide, Fungicide and Rodenticide  
Act as amended provided that you:

1. Revise "area 5" when to expect crabgrass germination  
to read: "--Apply Jan. 1 to March 20" to make the  
information complete.
2. Submit five (5) printed copies of the final printed  
labeling before releasing the product for shipment.

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.

Sincerely yours,

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

Enclosure

Ewison: Diskette ABC4:12-14-92



ACCEPTED with COMMENTS in EPA Form Date: 12/14/80  
59144-11

# CRABGRASS PREVENTER 20 with FERTILIZER

For Selective Preemergence Control of Crabgrass and Broadleaf Weeds in Established Turf Grasses

Contains 0.20% **Barricade**<sup>®</sup> Preemergence Herbicide

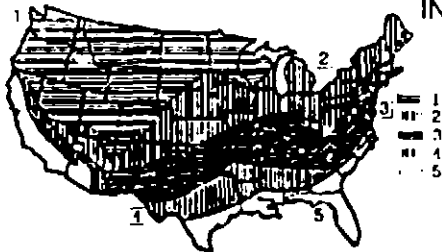
20 Pounds Treats 5,000 Sq. Ft.

ACTIVE INGREDIENT:

Prodiamine [N<sup>2</sup>,N<sup>2</sup>-Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-*m*-phenylenediamine] - 0.20%

INERT INGREDIENTS - - - - - 99.80%

Total 100.00%



KEEP OUT OF REACH OF CHILDREN  
CAUTION

See Rear Panel for Additional Precautionary Statements.  
Barricade<sup>®</sup> is a registered Trademark of Sandoz, Ltd.  
EPA Reg. No. 59144-11 EPA Est. No. 59144-GA-1

New Weight 20 Pounds

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## PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS and DOMESTIC ANIMALS

**CAUTION:** Causes moderate eye injury (irritation). Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact while handling the material may cause allergic reactions in some individuals.

### Statements of Practical Treatment

**If in Eyes:** Flush thoroughly with water for several minutes. Get medical attention if irritation persists. **If on Skin:** Wash with soap and water. Rinse thoroughly. Get medical attention if irritation persists. **If Inhaled:** Remove victim to fresh air.

### ENVIRONMENTAL HAZARDS

This product has low solubility in water. At the limit of solubility, this product is not toxic to fish. However at concentrations above the level of water solubility, it may be toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not contaminate water when disposing of equipment washwaters.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **STORAGE:** Store in original container away from other fertilizer, feed and foodstuffs, and separated from other pesticides. **PESTICIDE 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. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or at an incineration facility, or if allowed by State or local authorities, by burning. If burned stay out of smoke.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This product is a turf fertilizer and a selective preemergence herbicide that provides residual control of many grass and broadleaf weeds in turf grasses. It controls susceptible weeds by inhibiting weed seeds germination and root development. For most effective weed control it must be incorporated by 1/2 inch of rainfall, irrigation, or shallow mechanical incorporation. Incorporation should take place as soon as possible after application and should not be delayed past 14 days from the date of application. Do not apply this product through any type of irrigation system. Do not apply aerially.

### IMPORTANT APPLICATION DIRECTIONS

Apply uniformly through suitable, calibrated application equipment. To be effective this product must be applied 2 to 3 weeks before seed germination (sprouting) of crabgrass and other listed weeds.

**20 Pounds Treats 5,000 Sq. Ft.**

### ESTABLISHED TURF

This product is a selective preemergence herbicide that, when properly applied 2 to 3 weeks before weed seed germination, will control certain grass and broadleaf weeds in established grass turf. Most effective weed control in turf grasses will be obtained when this product is activated by at least 1/2 inch of rainfall or irrigation within 14 days after application and prior to weed germination. See map below for approximate time to apply in your locality.

### Use Precautions

The following use precautions apply to the use of this product in turf grasses. Application of this product may thin emerged annual bluegrass and newly overseeded grasses. Do not apply to FALL SEEDED TURF until the following spring and only after the second mowing. Do not apply to SPRING SEEDED TURF or to golf course tees or greens. Do not apply to newly set sod until the following year. Application to turf stressed by drought, low fertility, or pest damage may result in turf injury. Do not apply this product to areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass (Poa annua) are desirable species.

### Maximum Annual Rates

This product should not be applied above a maximum annual rate of 348 lbs. per acre. (If the maximum rate is applied it should be made in two separate applications.)

### HOW MUCH TO USE

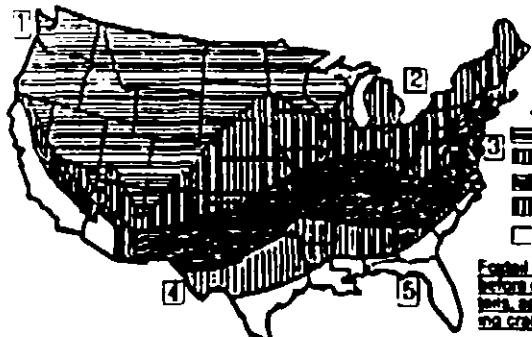
For crabgrass control this product may be applied as a single application, or for increased kill and control, it may be followed by a second application. The length of time of residual weed control provided by this product is related to the rate applied. Use one application for 2 to 3 months control or repeat the application in 60 days for 3 to 6 months control or in southern areas where crabgrass germinates for several months from Jan. 1 thru Apr. 20.

## APPLY 2 to 3 WEEKS

## BEFORE WEED SEEDS GERMINATE

### THEREFORE

plan application in your area as follows:



- 1 - Before May 30
- 2 - Before May 10
- 3 - Before April 20
- 4 - Before March 20
- 5 - Apply Jan. 1 to Mar.

For all zones, apply 2 weeks before the corresponding crabgrass germination date.

**NOTICE:** Manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the specific purposes referred to in the Directions for Use. GRO TEC, Inc. makes no other express or implied warranty of fitness or merchantability nor any other express or implied warranty. In no case shall GRO TEC, Inc. be liable for consequential, special, or indirect damages resulting from the use, handling, or application of this product (59-RRAM2 PM4 12-04-82)

**Net Weight 20 Pounds**

**GRO TEC, INC. P.O. Box 290 - Madison, GA 33650**

### TURF SPECIES AND RATES

The 174 lb. rate listed in the table below will give weed control for approximately 2 to 3 months. Apply twice for 3 to 6 months.

For the following Turf Species	Rate Lbs./Acre	Max. Rate per Calendar Year
Bermudagrass	174 lbs. (20 lbs. / 5,000 sq ft.)	348 lbs. (20 lbs. / 5,000 sq ft.)
Centipedegrass		
Seashore Paspalum		
Tall Fescue		
Zoysia		
Perennial Bluegrass		
Perennial Ryegrass		
Creeping Red Fescue		
St. Augustinegrass		
Creeping Bentgrass min 1/2" sprigged or plugged <sup>(1)</sup>		

(1) Suppression only of Foxtail due to reduced rate.

### WEEDS CONTROLLED

When used at the recommended rates this product will control:

- Annual Bluegrass
- Common Chickweed (1)
- Crabgrass - (Large, Smooth)
- Foxtail - (Yellow, Green)
- Henbit
- Knowlweed
- Oxalis
- Prostrate Spurge
- Sheep-spurge (1)

(1) Treat in the fall for control of Chickweed and Shepardspurge.

### OVERSEEDING/RESEEDING

This product will inhibit germination of turf species if overseeded/reseeded too soon after application. The interval between application and overseeding/reseeding is dependent on the application rate, soil temperature and the soil moisture shorter interval is possible if growing conditions are warm and wet, while a longer interval is needed if conditions are cool and dry. Use the following Overseeding/Reseeding Intervals Table as a guide when choosing the appropriate overseeding/reseeding interval for each situation. The table below lists the Overseeding/Reseeding Intervals (Months) Based Upon Seeding Method and Predominant Soil Conditions for the Season.

### Overseeding/Reseeding Intervals

lbs./Acre of product per application	Broadcast Seeding		Drill Seeding	
	wet & warm	cool & dry	wet & warm	cool & dry
174 lbs	4 mos	6 mos	3 mos	4 mos.

### SPREADER SETTINGS FOR 20 POUNDS / 5,000 SQ. FT.

SCOTT DROP - - - - 6 1/2  
CYCLONE B-1 - - - - 3 1/2

### GUARANTEED FERTILIZER ANALYSIS

Total Nitrogen (N) 32%  
Available Phosphoric Acid (P<sub>2</sub>O<sub>5</sub>) 4%  
Soluble Potash (K<sub>2</sub>O) 6%

Ingredients: Urea formaldehyde, Urea, Sulfur Coated Urea, Ammoniated Phosphate, Muriate of Potash