



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H7509C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg  
Number:

538-248

Date of Issuance:

JUN 14 1993

## NOTICE OF PESTICIDE:

Registration  
 Reregistration

(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

TGR Turf Enhancer 2SC

Name and Address of Registrant (include ZIP Code):

O.M. Scott & Sons Company  
14310 Scottslawn Road  
Marysville, OH 43041

**Note:** Changes in labeling 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 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.

Registration is in no way to be construed as an endorsement or recommendation of this product by the 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 FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Add the phrase "EPA Reg. No. 538-248" to your label before you release your product for shipment.

3. Submit one copy of the final printed label before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 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.

Signature of Approving Official

Date

6/14/93

Jacket copy  
279

ACCEPTED  
with COMMENTS  
In EPA Letter Dated:  
JUN 14 1993

PT  
TGR TURF ENHANCER  
2SC (S-XXXX)  
#1111  
03/01/93 PG 03/17/93 CR  
03/31/93 PG 04/29/93 VS/CR

[FRONT]  
(Scotts®)  
ProTurf®  
BRAND

Under the Federal Insecticide  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
538-248

TGR® Turf Enhancer  
2SC

- reduction of vertical growth and mowing frequency on hybrid bermudagrass, bentgrass and perennial ryegrass fairways, tees and roughs, and on St. Augustinegrass and Kentucky bluegrass/perennial ryegrass turf areas
- improved, extended fertilizer performance when used in association with a nitrogen fertilizer
- suppression of *Poa annua*

Net Contents 64 oz. (1.89 liters)

KEEP OUT OF REACH OF CHILDREN  
CAUTION  
PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals: HARMFUL IF ABSORBED THROUGH SKIN OR SWALLOWED. Avoid contact with skin, eyes or clothing. Wear protective clothing, long-sleeved shirt and rubber gloves. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling.

STATEMENT OF PRACTICAL TREATMENT

IF ON SKIN: Wash with plenty of soap and water.

IF SWALLOWED: Call a physician or poison control center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

IF IN EYES: Flush with plenty of water. Get medical attention if irritation persists.

Do not use on areas to be cultivated for food or food crops. Do not graze treated areas or harvest for forage or hay.

✓ Environmental Hazards: For terrestrial uses, do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply to steep slopes near water or when weather conditions favor drift from target areas. Do not contaminate water by disposal of equipment washwaters.

✓ Physical or Chemical Hazards: Do not use or store near heat or open flame.

ACTIVE INGREDIENTS:

✓ Paclobutrazol (±)-(R\*,R\*)-β-[(4-chlorophenyl) methyl]  
 -α-(1,1 dimethylethyl)-1H-1,2,4-triazole-1-ethanol ..... 22.3%

INERT INGREDIENTS: ..... 77.7%  
 Total 100.0%

EPA Reg. No. 538-XXX      EPA Est. XXXXX      Product of U.S.A.  
 Sold by:  
 ProTurf Division, The O.M. Scott & Sons Company  
 Marysville, Ohio 43041  
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Recommended For Use By Professional Turfgrass Managers

[GUSSETS]

[RIGHT GUSSET]

XXXX      (Scotts®)      TGR® Turf Enhancer  
                  ProTurf®      2SC      UPC  
                  BRAND           X XXXXX XXXXX X

[LEFT GUSSET]

(Scotts®)      TGR® Turf Enhancer      UPC      XXXX  
 ProTurf®      2SC      X XXXXX XXXXX X      (Pkg Calendar)  
 BRAND

[BACK]

**Directions for use**

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

This product provides:

- ° slowed vertical growth and reduced mowing for 6 to 8 weeks on established hybrid bermudagrass, bentgrass and perennial ryegrass fairways, tees and roughs, and on St. Augustinegrass and Kentucky bluegrass/perennial ryegrass turf areas; use reduced rates on bentgrass and overseeded bermudagrass greens
- ° improved and extended fertilizer performance for up to 12 weeks when combined or used in association with with a nitrogen fertilizer while improving turfgrass quality versus fertilizer alone
- ° reduced potential for scalping of all turfgrass areas
- ° better ball playability on hybrid bermudagrass due to increased turf density and tighter knit turf area
- ° suppression of *Poa annua* by reducing its growth and competitive ability

**WHEN TO USE:**

For growth suppression of warm season grasses: Use anytime when established hybrid bermudagrass and St. Augustinegrass are green, actively growing and have recovered from dormancy (filled in fully following winter).

For growth suppression of cool season grasses and *Poa annua* control: Apply in spring after green-up and after turf has been mowed once or twice. Apply at least 1 month before onset of high air temperatures. In late summer/early fall, apply at least 1 month before anticipated first killing frost.

For color and quality enhancement of winter overseeded turf: Apply anytime after overseeded turf has successfully established itself. Do not apply after March 15th to avoid delay in bermudagrass green-up.

Moderate soil moisture conditions should be present before and after application to achieve the best regulating effect.

Apply spray uniformly to turf. For best results, apply 0.25 inch of water within 24 hours after application to remove product from foliage and onto soil surface.

Apply with standard pressurized spray equipment with by-pass or mechanical agitation, using strainer screens of 30 or coarser mesh. Product should be added during filling of the tank. When tank is allowed to stand, vigorous agitation should be used to assure materials suspension before application.

Spray product to turf in sufficient amount of water (minimum 1 gallon per 1,000 square feet = 43.5 gal. /acre) to ensure uniform coverage. For best results, use 2-5 gallons of water per 1,000 square feet. A color agent or other marking device is suggested to avoid skipping and/or overlapping.

Directions For Use continued on other side

Spray Coverage Chart<sup>1</sup>

<u>Rate of Active Ingredient per Acre</u>	<u>Fluid Ounces of Product per Acre</u>
0.10 lbs. ai./A	6.4 oz.
0.25 lbs. ai./A	16.0 oz.
0.50 lbs. ai./A	32.0 oz.
0.75 lbs. ai./A	48.0 oz.

<sup>1</sup>Product should be mixed with minimum 1 gal. water/1,000 sq. ft., use 2-5 gals./1,000 sq. ft. for best results.

Product Rates

<u>Warm Season Grasses</u>	<u>Cool Season* Grasses (except putting greens)</u>	<u>Bentgrass Putting Greens and Overseeded Bermudagrass</u>
0.50 lbs. ai./A (sandy soils)	0.25 to 0.50 lbs. ai./A	0.10 to 0.25 lbs. ai./A
0.75 lbs. ai./A (clay soils)		

\*Reduce rate by 50% if *Poa annua* is a significant portion of turfgrass population.

Apply 0.5-0.9 lb. nitrogen/1,000 sq. ft. of a non-burning fertilizer (such as Scotts® ProTurf® granular or fluid fertilizers) with TGR® product application on warm and cool season grasses. On bentgrass greens and overseeded bermudagrass, apply 0.25-0.5 lb. N/1,000 sq. ft.

RESULTS TO EXPECT:

When applied as directed, vertical growth of turf will be slowed within 3-10 days, resulting in reduced mowing frequency for a 6-8 week period. Following application, turf will gradually undergo increased greening and density, which may persist up to 12 weeks.

Following application of product, weed populations should not be any greater than on untreated turf, although weed visibility may be higher on regulated turf.

Growth and competitive ability of *Poa annua* will be reduced within 1-2 weeks after application; regulation will last 3-8 weeks. Shoot and leaf tissue will become discolored for 3-8 weeks following onset of growth regulation. With proper fertilization, desired turfgrasses will be stimulated to crowd out weakened *Poa annua*.

As density of treated fairways increases due to altered growth habit, ball playability may improve, causing ball to sit higher on turf. This result is most evident on hybrid bermudagrass.

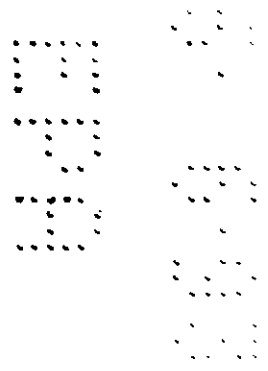
Seedhead formation will not be prevented. Seedheads should be mowed off as they grow above turf cutting height to maintain a desirable-looking turf.

Excessive irrigation and/or nitrogen fertilization may shorten period of growth regulation.

Regulator response will vary somewhat according to turf variety. For St. Augustinegrass, Bitter Blue will be the most responsive and Floratam the least responsive.

Hybrid Bermudagrass

<u>CULTIVAR</u>	<u>SENSITIVITY/ ACTIVITY</u>	<u>PERIOD OF GROWTH REGULATION</u>	<u>PERIOD OF COLOR RESPONSE</u>
Tifway I, II	Medium/Good	5-6 weeks	6-8 weeks
Tifgreen	High/Excellent	6-8 weeks	8-10 weeks
Ormond	High/Excellent	6-8 weeks	8-10 weeks



## St. Augustinegrass

<u>CULTIVAR</u>	<u>SENSITIVITY/ ACTIVITY</u>	<u>PERIOD OF GROWTH REGULATION</u>	<u>PERIOD OF COLOR RESPONSE</u>
Floratom, Floralawn	Low/Moderate	4-6 weeks	5-8 weeks
Floratine, Raleigh Texas Common	Medium/Good	6-7 weeks	7-8 weeks
Bitter Blue, Seville	High/Excellent	7-8 weeks	8-10 weeks

## PROGRAM SCHEDULING:

If crabgrass or other annual grassy weeds have been a problem in the past, an application of the appropriate preemergence control product should be made before the use of this product. Space applications of this product and oxadiazon (Goosegrass/Crabgrass Preventer) at least 4 weeks apart.

If a weed, disease or insect problem occurs after application of product, apply control product at recommended rate. This product is compatible with existing control products.

For Growth Regulation: A repeat application within the same growing season may be made, but no sooner than 8 weeks following initial application. Not more than 3 applications should be made in any one calendar year.

For Color, Quality Enhancement: On bentgrass and overseeded bermuda putting greens, repeat applications can be made 4-6 weeks apart. No more than 4 applications should be made in any one calendar year at full label rate. Do not apply to overseeded bermudagrass greens after March 15th to avoid delay of spring greenup of bermudagrass.

Do not aerify or topdress and drag greens with steel mats while turf is under regulation.

Do not seed within 6 weeks prior to or 2 weeks after application of this product.

If Embark® is used for *Poa annua* seedhead control, apply this product at least 14 days after its application.

**Precautions**

Not for use on bermudagrass putting greens except for winter overseeding enhancement uses.

Not for use on athletic fields under heavy traffic where maximum growth potential of turf is desired.

Not for use on shrubs, flowers, fruit or vegetables; applications to turf areas under trees will not affect/harm trees.

Do not use during periods of extreme dry or cold weather conditions, or during heavy insect or disease activity.

Do not apply product when soil is already saturated. Heavy rainfall or irrigation in these areas may cause active ingredient to move laterally on slopes and collect in low areas. These areas may undergo more severe growth control for a longer period of time.

Do not use on areas containing greater than 70 percent *Poa annua*, since discoloration of *Poa* may be unacceptable.

Delay treatment of newly sodded or sprigged turf until grass has knitted down and rooted firmly.

Delay sprigging for at least 4 weeks and sodding at least 2 weeks after application is made.

Do not apply this product through any type of irrigation equipment. Withhold application on large turf areas that have been thinned from winter damage, disease or insects until desired fill-in is achieved.

Do not use rates greater than those recommended, as they may cause undesirable turf growth control and may discolor areas temporarily.

**STORAGE AND DISPOSAL**

**PROHIBITIONS:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

**STORAGE:** Keep container closed when not in use. Do not store near food or feed. Protect from freezing. In case of spill or leak on floor or paved surfaces, soak up with sand, earth or synthetic absorbent. Remove to chemical waste area.



**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the hazardous waste representative of the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Metal Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by State and local authorities. Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke. Glass Containers: Triple rinse (or equivalent). Then dispose of in a sanitary landfill or by other approved State and local procedures.

**IMPORTANT NOTICE: DISCLAIMER AND LIMITATION OF LIABILITY**

This product has been researched to provide necessary data to support its use as described on the label. However, the user should understand that tests have not been carried out under all possible use conditions, and that Scotts cannot and does not warrant that the product is compatible with any other chemicals, or that user's mechanical equipment is appropriate to maintain the product in suspension. User should conduct his own compatibility testing, and should test mixes and equipment thoroughly before using the product on customers' property. This product has not been evaluated on all bentgrass varieties and *Poa annua* under all possible growing conditions. The user should exercise judgement and caution when using this product on a given variety until familiar with the performance under his growing conditions. Accordingly, SCOTT MAKES NO WARRANTY, EXPRESS, OR IMPLIED, CONCERNING THE RESULTS TO BE OBTAINED FROM USE OF THIS PRODUCT, IF NOT USED IN ACCORDANCE WITH THESE DIRECTIONS AND THE DIRECTIONS ON THE LABEL. The exclusive remedy of the user or Buyer, and the limit of liability of The O.M. Scott & Sons Company, or any other Seller, for any and all losses, injuries or damages resulting from the use or handling of this product shall be the purchase price paid by the user or Buyer for the quantity of this product involved. The Buyer and all users are deemed to have accepted the terms of this Notice, which may be varied only by agreement in writing, signed by a duly authorized representative of The O.M. Scott & Sons Company.

Sold by: ProTurf Division, The O.M. Scott & Sons Company  
Marysville, Ohio 43041