

PM 22

538-248

1-0/13 file



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

AUG 12 1994

O.M. Scott & Sons Company
14111 Scottlawn Road
Marysville, OH 43041

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 7/12/93 in Response to PR Notice 93-7
EPA Reg. No. 538-248
TGR Turf Enhancer 2 SC

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

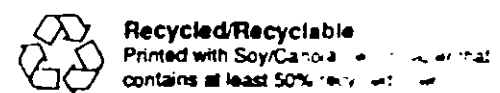
WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,

Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

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O.M. Scott & Sons Company
14111 Scottlawn Road
Marysville, OH 43041

TGR Turf Enhancer 2 SC
EPA Reg. No. 538-248

Comments:

User Safety Recommendations must either be placed in a box or printed on the label in a contrasting color from surrounding text.

In the PPE section, under the heading "Applicators and Other Handlers must wear:", replace the term "Polyethylene" with "Polyvinyl Chloride and Viton". Also, it should be noted that the listing of the PPE should be in a vertical listing rather than in sentence form.

The phrase "and restricted entry interval" was omitted in the fourth sentence of the Agricultural Use Requirements box. Correct the Agricultural Use Requirements box to reflect the correct language as presented in paragraph two of section F of the Product Worksheet.

FRONT:

PROTURF
TGR TURF ENHANCER
2SC (S-XXXX)

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1111

ACCEPTED
with COMMENTS
in EPA Letter Dated

03/01/93 PG 03/17/93 CR
03/31/93 PG 04/29/93 VS/cr
06/28/93 VS/cr

AUG 12 1994

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

(Scotts(R))
ProTurf
BRAND

538-248

TGR(R)
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 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.

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.

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Personal Protective Equipment:

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear: Long-sleeved shirt and long pants, chemical resistant gloves such as Barrier Laminate or Butyl, Nitrile or Neoprene rubber or Polyethylene and shoes plus socks.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:

Users should:

- o Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- o Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- o Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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 INGREDIENT:

Paclobutrazol (+)-(R*,R*)-8-[4-chlorophenyl)methyl]- (1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol	22.30%
INERT INGREDIENTS:	77.70%
Total	100.00%

EPA Reg No 538-248

EPA Est No XXXXX-XX-X

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

XXXX

TGR(R)
Turf Enhancer
2SC

GUSSETS:

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RIGHT GUSSET:

XXXX

(Scotts(R))
ProTurf(R)
BRAND

TGR(R) Turf Enhancer
2SC

LEFT GUSSET:

(Scotts(R))
ProTurf(R)
BRAND

TGR(R) Turf Enhancer
2SC

XXXX

BACK:

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TGR(R) Turf Enhancer
2SC

XXXX

(Scotts(R))
ProTurf(R)
BRAND

Directions for use

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Workers Protection Standard, 40CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is: coveralls, chemical-resistant gloves such as Barrier Laminate or Butyl, Nitrile or Neoprene rubber or Polyethylene and shoes plus socks.

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 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 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.

Spray Coverage Chart ^{1/}

<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.

^{1/} Product should be mixed with minimum of 1 gal. water/1,000 sq. ft.; use 2-5 gals/1,000 sq. ft. for best results.

Product Rates

Warm Season Grasses	Cool Season* Grasses (except putting greens)	Bentgrass Putting Greens and Overseeded Bermudagrass
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_(R) ProTurf_(R) granular or fluid fertilizers) with TGR_(R) product application on warm and cool season grasses. On bentgrass greens and overseeded bermudagrass, apply 0.25 - 0.5 lb. nitrogen/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.

Regular 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>
Floritam, 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. No 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 green-up 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_(R) 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 the 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 the 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% 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

PROHIBITION: 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 at 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 by 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 customer's 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 THE 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 limit of liability of The O M Scott & Sons Company or any other Seller, for any and all losses, injuries and 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 an officer of The O M Scott & Sons Company.

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