

PM 22

10182-133

113



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

JAN 21 1997

S.K. Theodorakis  
Zeneca Inc.  
P.O. Box 15458  
Wilmington, DE. 19850-5458

Dear Mr. Theodorakis:

Subject: Revised Labeling  
Trimmit 25C Plant Growth Regulator  
EPA Registration Number 10182-133  
Your label resubmission Dated October 30, 1996

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided that you:

1. Make the labeling change listed below before you release products for shipment bearing the amended labeling:
  - a. The "User Safety Recommendations" section is optional for this product. If this section is retained on the product label, it must be placed in a box on the product labeling with lines or other graphic indicators that clearly separate this section from the surrounding text.
2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

A stamped copy is enclosed for your records.

Sincerely yours,

*CSJ*  
Cynthia Giles-Parker  
Product Manger (22)  
Fungicide Herbicide Branch  
Registration Division (H7505C)

TRIMMIT (R) 2SC  
PLANT GROWTH REGULATOR  
for Turfgrass

ACTIVE INGREDIENT:

Paclobutrazol

(±)-(R\*,R\*)-beta-[(4-chlorophenyl)methyl]-alpha-  
(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol ..... 22.3%

INERT INGREDIENTS: ..... 77.7%

TOTAL: ..... 100.0%

Contains 2 lbs. active ingredient per gallon

EPA Reg. No.: 10182-133

EPA Est. No.:

Net Contents:

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Made in U.S.A.

ZENECA Professional Products  
ZENECA Inc.  
Wilmington, DE 19850-5458

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

JAN 21 1997

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

10182-133

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through skin. 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 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 a person is unconscious, do not give anything by mouth and do not induce vomiting.~~

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

**IF IN EYES:** Flush with plenty of water. ~~Get medical attention~~ Call a physician if irritation persists.

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 G F 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 Bamel Lamine or Butyl Rubber or Nitrile Rubber or Viton
- 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.

**BEST AVAILABLE COPY**

**User Safety Recommendations:**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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.

**FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL 1-800-F-A-S-T-M-E-D (327-8633).**

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.**

**ENVIRONMENTAL HAZARDS:** Do not contaminate water when disposing of equipment washwaters. Do not apply directly to water or wetlands. 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 contaminate water by cleaning of equipment or disposal of equipment washwaters.

**PHYSICAL OR CHEMICAL HAZARDS:** Do not use or store near heat or open flame.

**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 at the nearest EPA Regional Office for guidance.

**BEST AVAILABLE COPY**

5/13

TRI133C.RSC  
TRIMMIT Label  
Page 4 of 12  
10/29/96

**CONDITIONS OF SALE  
AND LIMITATION OF WARRANTY AND LIABILITY**

---

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

---

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ZENECA or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ZENECA and Seller harmless for any claims relating to such factors.

ZENECA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or ZENECA, and Buyer and User assume the risk of any such use. ZENECA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall ZENECA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ZENECA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ZENECA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

ZENECA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of ZENECA.

6/13

### DIRECTIONS FOR USE

Read all label directions carefully before use.

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

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40CFR part 170. This standard contains requirements for training, decontamination, notification and emergency assistance. 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 use 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 12 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 Rubber or Nitrile Rubber or Viton
- Shoes plus socks

#### GENERAL INFORMATION

TRIMMIT (R) 2SC is a plant growth regulator for turfgrass that slows grass growth for up to three months after application. The frequency of mowing can be reduced by up to 50% during the period of effective retardation. Used alone, TRIMMIT 2SC will not prevent seedhead production, and tank mixture for a spray program using an appropriate seedhead control agent (EMBARK, LIMIT) are required in situations where seedhead visibility is a problem. Use of TRIMMIT 2SC on fine turf should be accompanied by moderate-to-high fertility to maintain turfgrass appearance and reduce discoloration. Some grasses (e.g. *Poa annua*) can be more retarded than others leading to selective control after prolonged use.

Not for use on commercial sod farms.

**BEST AVAILABLE COPY**

**What Applications of TRIMMIT 2SC to Turfgrasses 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 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 areas.
- 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).

**When to Use For Growth Suppression of Cool-Season Grasses and *Poa annua*:**

Apply in spring after green-up and after turf has been moved 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.

**When to Use 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.

**Use Directions:**

Apply treatment solution 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 application equipment with by-pass or mechanical agitation using strainer screens of 50 (or coarser) mesh. Product should be added during filling of applicator tank. When tank is allowed to stand, vigorous agitation should be used to assure material suspension before application.

Apply TRIMMIT 2SC to turf in sufficient amount of water (minimum 1 gallon treatment solution per 1,000 sq. ft. = 43.5 gal/acre) to ensure uniform coverage. For best results, use 2 to 5 gallons of water per 1,000 sq. ft. A color agent or other marking device is advised to avoid skipping and/or overlapping.

**Treatment Coverage Chart**

Rate of Active Ingredient per Acre	Fluid Ounces of Product per Acre
0.1 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

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

**Specific Rates**

Warm Season Grasses	Cool Season Grasses (except putting greens)	Bentgrass Putting Greens & Overseeded Bermuda
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 by 50% if *Poa annua* is a significant portion of turfgrass population.

Apply 0.5 to 0.9 lbs nitrogen/1,000 sq. ft. of a non-burning fertilizer product application on warm and cool season grasses. Apply 0.25 to 0.5 lbs nitrogen/1,000 sq. ft. on bentgrass greens and overseeded bermudagrass.

**Results to Expect From Application of TRIMMIT 2SC:**

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



9/13

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 to 2 weeks after application; regulation will last 3 to 8 weeks. Shoot and leaf tissue will become discolored for 3 to 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**

Cultivar	Sensitivity/Activity	Period of Growth Regulation	Period of Color Response
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**

Cultivar	Sensitivity/Activity	Period of Growth Regulation	Period of Color Response
Floratam	Low/Moderate	4 - 8 weeks	5 - 8 weeks
Floralawn			
Floratine	Medium/Good	6 - 7 weeks	7 - 8 weeks
Raleigh			
Texas Common			
Bitter Blue	High/Excellent	7 - 8 weeks	8 - 10 weeks
Seville			

**Program Scheduling:**

If crabgrass or other annual grassy weeds have been a problem in the past, an application of the appropriate preemergence weed control product should be made before the use of

10/13

TRIMMIT 2SC. Space applications of TRIMMIT 2SC and preemergence product (Goosegrass/Crabgrass Preventer) at least 4 weeks apart.

If a weed, disease or insect problem occurs after application of TRIMMIT 2SC, apply weed control product at recommended rate. TRIMMIT 2SC is compatible with most existing weed 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. Do not make more than 3 applications per calendar year. Do not apply more than 4 quarts per acre per year (2 lb. ai/A).

**For Color, Quality Enhancement:**

On bentgrass and overseeded bermudagrass greens, repeat applications can be made 4 to 6 weeks apart.

Do not make more than 4 applications per calendar year.

Do not apply more than 4 quarts per acre per year (2 lb. ai/A).

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 under growth regulation.

Do not seed within 6 weeks prior to or 2 weeks after application of TRIMMIT 2SC.

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

**General Precautions**

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

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 vegetable plants (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 the treated 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% Poa annua, since discoloration of Poa may be unacceptable.

**BEST AVAILABLE COPY**

11/13

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 drainage, disease, or insects until desired fill-in is achieved.

Assure that dosage rates are measured accurately since rates greater than those recommended may cause undesirable turf growth control and may discolor areas temporarily.

### APPLICATION

Apply TRIMMIT in 25 to 50 gallons of water per acre according to Table 1. The spray solution must be distributed uniformly within the treatment area to reduce uneven effects.

For maximum benefit, apply about two weeks before the onset of rapid grass growth in the spring. TRIMMIT alone will not retard growth for several days following application, and normal mowing may be required during this period. Post-application rainfall or irrigation is required to activate TRIMMIT, since it must be taken up through the root system.

Applications can also be made prior to the fall flush of growth. The use of TRIMMIT for selective Pea annua control should involve both a spring and a fall application. Do not apply to the same area more than twice in one year.

Table 1

Use On \_\_\_\_\_ Amount of TRIMMIT 2SC Per:  
Acre \_\_\_\_\_ 1000 Sq. Ft.

Cool-Season Species		

**BEST AVAILABLE COPY**

12/13

<del>Medium to rough turf</del> a)	0.1-2.0 qt.	-
<del>Fine turf</del> b)	0.5-1.0 qt.	0.4-0.8 fl. oz.
<del>Poa annua control</del>	0.5-1.0 qt.	0.4-0.8 fl. oz.
<del>-</del>		
<b>Warm Season Species</b>		
St. Augustinegrass	0.5-1.0 qt.	0.4-0.8 fl. oz.
Tifway 419 hybrid bermudagrass	0.5-1.0 qt.	0.4-0.8 fl. oz.

~~a) The addition of 1/2 to 1/4 lb. a.i./A of EMBARK PGR is recommended for seedhead control under medium to rough conditions where mowing must be reduced substantially. Medium to rough turf refers to grassy areas maintained primarily for utilitarian rather than aesthetic purposes (e.g. parks, roadsides).~~

~~b) The addition of 1.5 to 2.0 lb. a.i./A LIMIT PGR is recommended for enhanced activity and seedhead control if a mowing reduction of greater than 40% is required. Fine turf refers to well-maintained grassy areas intended for primarily aesthetic purposes (e.g. lawns).~~

**Notes**

- ~~o Shake container thoroughly before use.~~
- ~~e Do not apply during periods of drought or frost.~~
- ~~o Do not mow treated grass for at least three days following application.~~
- ~~o Broadleaf weeds are not significantly affected by TRIMMIT 2SC. To control the growth of weeds, treat with an appropriate herbicide when weeds are actively growing. Carefully follow label directions.~~
- ~~e Use the higher rate of TRIMMIT when a longer retardation effect is required.~~
- ~~o Do not use on areas to be cultivated for food or food crops or to be resown with grasses within two years of treatment.~~

13/13

TRI133C.RSC  
TRIMMIT Label  
Page 12 of 12  
10/29/96

- ~~o Do not use on turf within the first year after sowing.~~
- o Do not apply more than 4 qts. per acre per year (2 lbs. a.i./A).
- o Do not graze treated areas or harvest for forage or hay.

**BEST AVAILABLE COPY**

