



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

91234-224

Date of Issuance:

12/1/21

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

A589.02

Name and Address of Registrant (include ZIP Code):

Beth Anderson  
Atticus, LLC  
5000 CentreGreen Way, Suite 100  
Cary, NC 27513

**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 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 unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.

Signature of Approving Official:

Carmen J. Rodia, Jr., Acting Product Manager 22  
Fungicide Branch, Registration Division (7505P)

Date:

12/1/21

3. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 91234-224.”
4. Submit one copy of the revised final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSF:

- Basic CSF dated 5/11/2021

If you have any questions, please contact James Orrock via email at [\*Orrock.James@epa.gov\*](mailto:Orrock.James@epa.gov).

Enclosure

{Note to reviewer: [Text] in brackets denotes optional or explanatory language}

{Note to reviewer: {Text} in braces denotes where in the final label text will appear}

**{BOOKLET FRONT PANEL LANGUAGE}**

# A589.02 [™]

[Alternate Brand Name: Travek 2 SC]

[Contains paclobutrazol, the active ingredient used in Trimmit® [2SC].]

**ACTIVE INGREDIENT:** (% by weight)

Paclobutrazol (±)-(R\*,R\*)-beta-[(4-chlorophenyl)methyl]-alpha-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol.....22.9%

**OTHER INGREDIENTS:** .....77.1%

**TOTAL** ..... 100.0%

Contains 2 lbs. of active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN

## CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you Do not understand the label, find someone to explain it to you in detail.)

See inside label booklet for First Aid, [additional] Precautionary Statements and Directions for Use.

[A589.02 is not manufactured, or distributed by Syngenta, seller of Trimmit® [2SC].]

EPA Reg. No.: 91234-XX

EPA Est. No.:

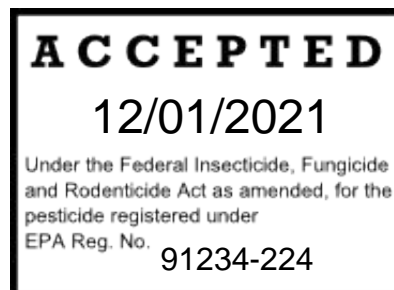
Net Contents:

MANUFACTURED FOR:

**Atticus, LLC**

5000 CentreGreen Way, Suite 100

Cary, NC 27513



## {LANGUAGE INSIDE BOOKLET}

<b>FIRST AID</b>	
<b>If swallowed:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• <b>Do not</b> induce vomiting unless told to do so by the poison control center or doctor.</li><li>• <b>Do not</b> give anything by mouth to an unconscious person.</li></ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at <b>1-844-685-9173</b> for emergency medical treatment information.	

**For Chemical Emergency:  
Spill, Leak, Fire, Exposure, or Accident,  
Call CHEMTREC Day or Night  
Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)**

## **PRECAUTIONARY STATEMENTS**

### **Hazards to Humans and Domestic Animals**

#### **CAUTION**

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

#### **Personal Protective Equipment (PPE)**

Some materials that are chemical-resistant to this product are listed below.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, or Viton®  $\geq$  14 mils
- Shoes plus socks

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:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE 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.

### **Environmental Hazards**

**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 or rinsate.

### **Physical or Chemical Hazards**

**Do not** use or store near heat or open flame. **Do not** mix or allow coming in contact with oxidizing agents. hazardous chemical reaction may occur.

## **DIRECTIONS FOR USE**

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

FAILURE TO FOLLOW THE USE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR DISEASE CONTROL.

**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 Worker Protection Standard, 40 CFR 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 the label about personal protective equipment (PPE), restricted-entry interval, and notification to workers. 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 12 hours.**

For early entry into 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 wear:

- Coveralls
- Chemical-resistant gloves made of barrier laminate, butyl rubber  $\geq$  14 mils nitrile rubber  $\geq$  14 mils, or Viton®  $\geq$  14 mils

- Shoes plus socks

## TURF DIRECTIONS FOR USE

**A589.02** is a plant growth regulator for non-residential turfgrass that slows grass growth for up to two months after application. The frequency of mowing can be reduced by up to 50% during the period of effective retardation. Use of **A589.02** on fine turf should be accompanied by moderate-to-high fertility to maintain turfgrass appearance and reduce discoloration. Growth and development of some grasses (e.g. *Poa annua*) can be significantly reduced, leading to selective control after prolonged use in mixed populations.

### What Applications of A589.02 to Turfgrasses Provide

- 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

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.

### When to Use for *Poa annua* Suppression

Apply when the *Poa annua* is actively growing. In moderate climates the application timing may be fall through late spring. In northern climates, spring and fall timings are recommended. In climates with a prolonged winter dormancy, fall applications can be made up to one month prior to anticipated first killing frost. Repeat application should be made as part of a *Poa annua* suppression program.

### When to Use for Color and Quality Enhancement of Winter Overseeded Turf and *Poa annua* Suppression

Apply anytime after overseeded turf has successfully established itself (cool-season turf species should be near 85% of turf composition). **Do not** apply after March 15 to putting greens to avoid delay in bermudagrass green-up. Moderate soil moisture conditions should be present before and after application to achieve best regulating effect.

**USE DIRECTIONS**

Apply treatment solution uniformly to turf. **Do not** use on residential turf. For best results, apply 0.25 inch of water within 24 hours after application to remove product from foliage and onto soil surface.

After **A589.02** application, water-in within 24 hours to limit surface movement, but not to the point of runoff. To prevent product runoff, time applications to allow for watering-in and maximum absorption into treated turf prior to a rain event. **Do not** apply **A589.02** to turf within rights-of-ways.

Apply with standard pressurized spray 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 **A589.02** to turf in sufficient amount of water (minimum 1 gallon treatment solution per 1,000 sq. ft. = 43.5 gals./acre) to ensure uniform coverage. For best results, use 2 to 3 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<sup>1</sup>**

Rate of Active Ingredient per Acre	Fluid Ounces of Product per Acre
<b>0.10 lbs. a.i.</b>	<b>6.4 oz.</b>
<b>0.16 lbs. a.i.</b>	<b>10.0 oz.</b>
<b>0.25 lbs. a.i.</b>	<b>16.0 oz.</b>
<b>0.50 lbs. a.i.</b>	<b>32.0 oz.</b>
<b>0.75 lbs. a.i.</b>	<b>48.0 oz.</b>

<sup>1</sup> Product should be mixed with minimum 1 gal water/1,000 sq. ft. Use 2 to 3 gals/1,000 sq. ft. for best results.

**Specific Rates**

Warm Season Grasses	Cool Season Grasses <sup>1</sup> (except putting greens)	Bentgrass Putting Greens	Overseeded Bermudagrass
0.50 lbs a.i./A (sandy soils)	0.25 to 0.50 lbs. a.i./A	0.10 to 0.25 lbs. a.i./A	0.10 to 0.16 lbs. a.i./A
0.75 lbs a.i./A (clay soils)			

<sup>1</sup> Reduce application rate by 50% if *Poa annua* is a significant portion of turfgrass population (greater than 50%).

Apply 0.5 to 0.9 lbs. nitrogen/1,000 sq. ft. of a non-burning fertilizer product 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 A589.02**

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.

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. Turfgrass shoots and leaves 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 - 6 weeks	5 - 8 weeks
Floralawn	Low/Moderate	4 - 6 weeks	5 - 8 weeks
Floratine	Medium/Good	6 - 7 weeks	7 - 8 weeks
Raleigh, Texas	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 weed control product should be made before the use of **A589.02**. Space the applications of **A589.02** and oxadiazon-based preemergence products at least 4 weeks apart on putting greens.

If a weed, disease or insect problem occurs after application of **A589.02**, apply an appropriate control product at its recommended rate. **A589.02** is compatible with most existing control products. Use of **A589.02** in combination with fungicides containing propiconazole, fenarimol, triadimefon, and myclobutanil can result in increased growth inhibition of *Poa annua* on putting greens.

**For Growth Regulation**



Repeat applications can be made within the same growing season as long as the turf is actively growing. Turfgrass species and growth rate will dictate rate and timing of applications. **Do not** apply more than 4 quarts per acre per year (2 lbs. a.i./A).

#### **For *Poa annua* Suppression**

**A589.02** will suppress the growth and competitive ability of *Poa annua*. Apply when *Poa annua* is actively growing at 16 to 32 ounce per acre. Lower rates and more frequent applications can be made if *Poa annua* discoloration cannot be tolerated. However, only moderate *Poa annua* suppression may be achieved. **Do not** apply more than 4 quarts per acre per year (2 lbs. a.i./A).

#### **For Color, Quality Enhancement, and *Poa annua* Suppression in Overseedings**

On bentgrass greens and overseeded bermudagrass, repeat applications can be made as long as the turf is actively growing. **Do not** apply more than 4 quarts per acre per year (2 lbs. a.i./A). Apply to overseeded turf when seed has established and turf composition is near 85% of the cool season species.

**Do not** apply to overseeded bermudagrass greens after March 15th to avoid delay of spring green-up of dwarf-type 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 **A589.02**.

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

#### **USE RESTRICTIONS**

- **Do not** use on residential lawns.
- **Do not** use on bermudagrass putting greens except for winter overseeding enhancement use.
- **Do not** use on athletic fields under heavy traffic where maximum growth potential of turf is desired.
- **Do not** use on shrubs, flowers, fruits, 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 annua* 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 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.
- Shake container thoroughly before use.

- For best residual activity, **A589.02** should be removed from leaf surfaces by irrigation or rainfall prior to mowing.
- Broadleaf weeds are not significantly affected by **A589.02**. To control the growth of weeds, treat with an appropriate herbicide when weeds are actively growing. Carefully follow label directions.
- **Do not** use on areas to be cultivated for food or feed crops or to be resown with grasses within two years of treatment.
- **Do not** apply more than 4 qts. per acre per year (2 lbs. a.i./A).
- **Do not** graze treated areas or harvest for forage or hay.

**TREES DIRECTIONS FOR USE [\*]  
[\*NOT FOR USE IN CALIFORNIA]**

**A589.02** is a xylem mobile plant regulator that slows vegetative growth as well as creating other physiological effects by inhibiting gibberellin biosynthesis. **A589.02** reduces the above ground vegetative growth and changes specific morphological characteristics of the plant. **A589.02** is most effective when applied to the soil near the base of the tree either by soil injection or with basal soil drench.

**A589.02** can be used on listed trees found in such areas as urban environments, utility rights-of-way, residential areas and other non-crop areas.

Characteristics of results in the tree:

The activity of **A589.02** occurs following root uptake and xylem translocation throughout the tree canopy. This occurs within a few weeks, although maximum growth inhibition may not be fully visible for up to 18 months following application. Initial effects of **A589.02** may be observed as intense greening of the foliage with no phytotoxicity. Trees treated with **A589.02** will exhibit shorter internodes, a reduction in the diameter growth of the main stem wood, thicker leaf cuticles, and an increase in fine root growth in some species. Smaller leaf size and enhanced flowering may also be observed in some species.

**USE PRECAUTIONS**

- Apply at recommended rates and follow safety procedures.
- Trees not used for food production and that are not specifically listed on this label may be treated if all other label directions are followed.
- Local soil and environmental conditions can affect the degree and longevity of effect following application of **A589.02**. Follow label instructions to increase effectiveness depending on these factors.
- **Do not** reapply **A589.02** until symptoms from the previous applications begin to disappear, or within 3 years of the last application, whichever comes first.
- For hard-to-wet soils, the mobility of **A589.02** can be enhanced by using a nonionic, organosilicone surfactant.
- Trees growing in heavily compacted soils may need to be vertical mulched or soil aerated for **A589.02** to effectively promote root growth.
- Basal drench and soil injection application of **A589.02** may result in localized, temporary discoloration of turfgrass immediately adjacent to the treatment site.
- Avoid basal drench applications on slopes or other areas where **A589.02** or treated soil may be washed away from the base of the tree by rainfall or irrigation.
- Treatment of trees bordered by shrubs and/or herbaceous ornamentals may cause these plants to be affected if their roots extend into the treatment zone.

- **Do not** treat sugar maple trees or any other trees that are or could be tapped for sugar within one year of application.
- **Do not** treat nut or fruit trees that will be harvested within one year of application.
- **Do not** treat trees that are severely stressed or rapidly declining
- **Do not** apply this product through any type of irrigation system.

## USE DIRECTIONS

### APPLICATION METHODS

**A589.02** may be applied as a basal drench or by soil injection. Application should be made as close to the tree and the soil interface as possible to obtain the most consistent results.

#### Basal Drench

Prior to application, make a 2" deep furrow around the base of the tree near the point of contact between the soil and the tree trunk. Apply the required dose [see Table 1 for rates based on tree size and species]. The diluted mixture of **A589.02** may be carefully poured into the furrow around the tree trunk (Figure 1) with a graduated container/jug or with a handheld hose connected to a truck-mounted tank/hydraulic sprayer. After applying, refill the furrow with untreated soil to avoid possible ground runoff.

#### Soil Injection

The diluted mixture of **A589.02** should be injected approximately 3-6 inches deep. Use injection equipment capable of delivery at 60-150 psi. Injection orifices should be oriented to release the diluted product horizontally at the point of injection. The required dose should be divided evenly among injection sites spaced as uniformly as possible around the tree trunk. The injection sites should be positioned to release the **A589.02** diluted mixture as close as possible to the point of contact between the soil and the tree beneath the soil so that the active ingredient may be readily absorbed by the tree (Figure 2). Injection sites should also be located next to buttress roots (Figure 2). For trees less than 6 inches DBH, use at least 4 evenly spaced injection sites per tree.

### APPLICATION TIMING

Applications can be made throughout the year, weather permitting, except when the soil is frozen or saturated with water. Note: **A589.02** is absorbed by plant roots and translocated to the growing tissues in response to evaporative water loss (transpiration). If applications are made after fall leaf drop, uptake of **A589.02** will not occur until development of new leaves in the spring and resumption of evaporative water loss.

### MIXING PROCEDURES

Refer to Table 1. When mixing large amounts of **A589.02**, use a suspension aid to improve suspension of the diluted mixture at a rate of approximately ½ pint to 2 pints per 100 gallons. To re-suspend a solution that has settled, use 1 to 2 pints of a suspension aid per 100 gallons. Follow all label directions and precautions on the product label of the suspension aid.

If applying mixture to compacted soils, high clay content soils, or other hard-to-wet soils, use a nonionic, organosilicone wetting agent (surfactant) to increase penetration of the soil. Mix approximately ½ ounce surfactant per 3 gallons or 1 pint surfactant per 100 gallons. Follow all label directions and precautions on the product label.

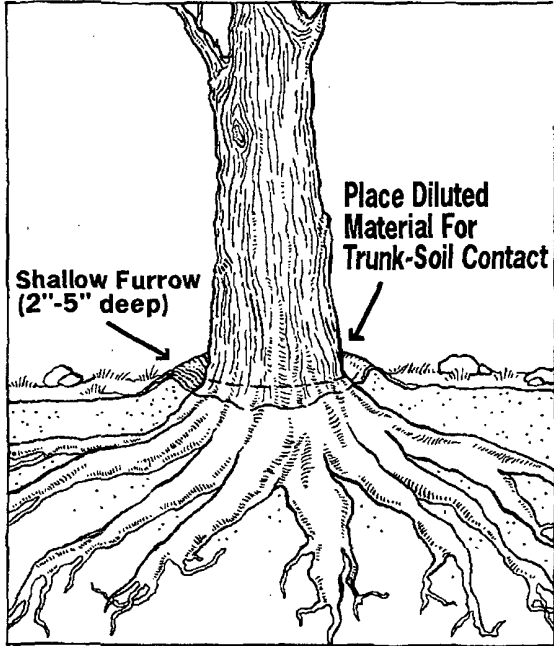


Figure 1. Placement of A589.02 as a basal drench

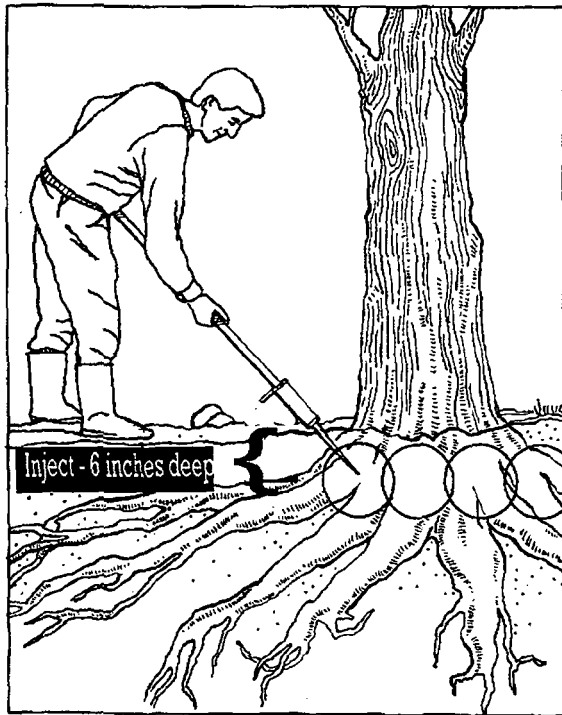


Figure 2. Placement of A589.02 as a soil injected treatment

Table 1: Amount of A589.02 and Minimum Water Required for Specific Trees and Tree Sizes

DBH	Tree Species Group (SeeTable 2)											
	Group A		Group B		Group C		Group D		Group E		Group F	
	A589.02 (ml)	Water* (ml)	A589.02 (ml)	Water* (ml)	A589.02 (ml)	Water* (ml)	A589.02 (ml)	Water* (ml)	A589.02 (ml)	Water* (ml)	A589.02 (ml)	Water* (ml)
4	17	500	33	667	42	833	46	917	50	1,000	67	1,333
5	20	625	42	833	52	1,04	57.	1,146	63	1,250	83	1,667
6	25	750	50	1,000	63	1,25	69	1,375	75	1,500	100	2,000
7	44	875	58	1,167	73	1,45	80	1,604	88	1,750	117	2,333
8	50	1,00	67	1,333	83	1,66	92	1,833	100	2,000	133	2,667
9	56	1,12	75	1,500	94	1,87	103	2,063	113	2,250	150	3,000
10	63	1,25	83	1,667	104	2,083	115	2,292	125	2,500	167	3,333
11	69	1,37	92	1,833	115	2,29	126	2,521	138	2,750	183	3,667
12	75	1,50	100	2,000	125	2,50	138	2,750	150	3,000	200	4,000
13	81	1,62	108	2,167	135	2,708	149	2,979	163	3,250	217	4,333
14	88	1,75	117	2,333	146	2,91	160	3,208	175	3,500	233	4,667
15	94	1,87	125	2,500	156	3,12	172	3,438	188	3,750	250	5,000
16	100	2,00	133	2,667	167	3,33	183	3,667	200	4,000	267	5,333
17	106	2,12	142	2,833	177	3,54	195	3,896	213	4,250	283	5,667
18	113	2,25	150	3,000	188	3,75	206	4,125	225	4,500	300	6,000
19	119	2,37	158	3,167	198	3,95	218	4,354	238	4,750	317	6,333
20	125	2,50	167	3,333	208	4,16	229	4,583	250	5,000	333	6,667
21	131	2,62	175	3,500	219	4,37	241	4,813	263	5,250	350	7,000
22	138	2,75	183	3,667	229	4,58	252	5,042	275	5,500	367	7,333
23	144	2,87	192	3,833	240	4,79	264	5,271	288	5,750	383	7,667
24	150	3,00	200	4,000	250	5,00	275	5,500	300	6,000	400	8,000
25	156	3,12	208	4,167	260	5,20	287	5,729	313	6,250	417	8,333
26	163	3,25	217	4,333	271	5,417	298	5,958	325	6,500	433	8,667
27	169	3,37	225	4,500	281	5,625	309	6,188	338	6,750	450	9,000
28	175	3,50	233	4,667	292	5,833	321	6,417	350	7,000	467	9,333
29	181	3,62	242	4,833	302	6,04	332	6,646	363	7,250	483	9,667
30	188	3,75	250	5,000	313	6,25	344	6,875	375	7,500	500	10,000
31	194	3,87	258	5,167	323	6,45	355	7,104	388	7,750	517	10,333
32	200	4,00	267	5,333	333	6,66	367	7,333	400	8,000	533	10,667
33	206	4,12	275	5,500	344	6,87	378	7,563	413	8,250	550	11,000
34	213	4,25	283	5,667	354	7,08	390	7,792	425	8,500	567	11,333
35	219	4,37	292	5,833	365	7,29	401	8,021	438	8,750	583	11,667
36	225	4,50	300	6,000	375	7,500	413	8,250	450	9,000	600	12,000
37	231	4,62	308	6,167	385	7,70	424	8,479	463	9,250	617	12,333
38	238	4,75	317	6,333	396	7,917	435	8,708	475	9,500	633	12,667
39	244	4,87	325	6,500	406	8,125	447	8,938	488	9,750	650	13,000
40	250	5,00	333	6,667	417	8,333	458	9,167	500	10,000	667	13,333
DBH (in.)	Tree Species Group (SeeTable 2)											
	Group A		Group B		Group C		Group D		Group E		Group F	
	A589.02 (ml)	Water* (ml)	A589.02 (ml)	Water* (ml)	A589.02 (ml)	Water* (ml)	A589.02 (ml)	Water* (ml)	A589.02 (ml)	Water* (ml)	A589.02 (ml)	Water* (ml)
41	256	5,12	342	6,833	427	8,542	470	9,396	513	10,250	683	13,667

42	263	5,25	350	7,000	438	8,750	481	9,625	525	10,500	700	14,000
43	269	5,37	358	7,167	448	8,958	493	9,854	538	10,750	717	14,333
44	275	5,50	367	7,333	458	9,167	504	10,083	550	11,000	733	14,667
45	281	5,62	375	7,500	469	9,375	516	10,313	563	11,250	750	15,000
46	288	5,75	383	7,667	479	9,583	527	10,542	575	11,500	767	15,333
47	294	5,87	392	7,833	490	9,792	539	10,771	588	11,750	783	15,667
48	300	6,00	400	8,000	500	10,00	550	11,000	600	12,000	800	16,000
49	306	6,12	408	8,167	510	10,20	562	11,229	613	12,250	817	16,333
50	313	6,25	417	8,333	521	10,41	573	11,458	625	12,500	833	16,667

\*More water may be used than indicated on the table to deliver the desired rate of product. **Do not** use less water as distribution of the chemical in the tree can be compromised.

Table 2: Tree Species for Each Group Corresponding to Application Rates in Table 1.

<b>Group A</b>	<b>Group E</b>	<b>Group F</b>
Australian pine (NOT Austrian Pine)	Anaqua*	Alder
Dogwood	Baytree	Alder Arborvitae
Sweetgum (eastern US)	Beech	Ash – All Species
Redbud	Camphor	Aspen**
<b>Group B</b>	Cedar - Deodara	Banyan*
Basswood	Chinaberry	Birch – All Species
Cypress	Catalpa	Black olive
Elm - small (<10" DBH)	Ebony – Texas*	Bradford pear
Elm - Siberian	Hickory	Cedar – All others (except Deodara)
Linden - all varieties	Holly – American	Cherry - black
Mountain ash	Locust – Honey	Cottonwood**
Norway maple - small (<10"D8H)	Mesquite*	Crabapple
Red maple - small (<10" DBH)	Mimosa*	Eucalyptus
Sugar maple - small (<10" DBH)	Oak – Black	Fir
Sweetgum (western US)	Oak – Live – large (>10" DBH)	Hackberry
Tupelo	Oak – Pin	Hawthorne
<b>Group C</b>	Oak – Post	Hemlock
Australian bottle*	Oak – Red	Jackaranda
Black gum	Oak – Sandshinnery	Juniper
Box elder	Oak – Water	Laurel
California pepper*	Oak – Willow	Locust - Black
Elm - large (>10" DBH)	Olive – Russian	Magnolia
Horse chestnut	Paloverde*	Melaleuca*
Live oak - small (<10" DBH)	Paulownia	Mugo Pine
Norway maple - large (>10"DBH)	Pecan*	Mulberry
Oleander*	Raintree*	Oak - Laurel
Persimmon*	Saltcedar*	Oak - valley
Red maple - large (>10" DBH)	Sassafras	Osage orange
Rosewood"	Soapberry*	Palms*
Silver maple- small (<10" DBH)	Sumac – African*	Pear - Bradford
Sugar maple - large (>10" DBH)	Walnut	Photinia
<b>Group D</b>		
Ailanthus		

Buckeye  
Ironwood  
Silver maple - large (>10" DBH)

Pines – All Species\*\*  
Poplar – Lombardy, Tulip,  
Yellow\*\*  
Redwood  
Spruce - All Species  
Sugarberry  
Sycamore\*\*  
Tallow - Chinese  
Waxmyrtle - Pacific  
Tallowwood\*  
Tamarisk\*  
Willow  
Yew

\* These trees may exhibit variable results.

\*\* These trees have a limited response to **A589.02** and may need multiple consecutive years of treatment for acceptable growth control.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in a tightly closed container in a cool, dry place. Store in original container and out of reach of children, preferably in a locked storage area.

**PESTICIDE DISPOSAL:** Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the 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 HANDLING:

**[For plastic containers ≤ 5 gallons: Nonrefillable Container:** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.]

**[For plastic containers > 5 gallons: Nonrefillable container.** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Recap and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.]

## LIMITATION OF WARRANTY AND LIABILITY

**IMPORTANT: READ BEFORE USE.** Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If these terms and conditions are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Disclaimer of Warranties and Limitations of Liability. **CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness, injury, and other unintended consequences may result because of such factors as manner of use or application (including misuse), the presence of other materials, weather conditions, and other unknown factors, all of which are beyond the control of ATTICUS, LLC. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, ATTICUS, LLC makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond statements on this label. **LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, neither ATTICUS, LLC the manufacturer, nor the Seller shall be liable for any indirect, special, incidental or consequential damages resulting from the use, handling, application, storage, or disposal of this product. To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use, handling, application, or storage of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid.

[A589.02] is a trademark of Atticus, LLC

[Trimmit [2 SC] is a registered trademark of Syngenta.]

Embark® is a registered trademark of PBI/Gordon Corporation.



# A589.02<sup>TM</sup>

[Alternate Brand Name: Travek 2 SC]

Contains paclobutrazol, the active ingredient used in Trimmit® [2SC].

**ACTIVE INGREDIENT:** ( % by weight)

Paclobutrazol (±)-(R\*,R\*)-beta-[(4-chlorophenyl)methyl]-alpha-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol.....22.9%

**OTHER INGREDIENTS:**.....77.1%

**TOTAL** ..... 100.0%

Contains 2 lbs. of active ingredient per gallon.

## KEEP OUT OF REACH OF CHILDREN

### CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you Do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li><b>Do not</b> induce vomiting unless told to do so by the poison control center or doctor.</li> <li><b>Do not</b> give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at <b>1-844-685-9173</b> for emergency medical treatment information.	

#### For Chemical Emergency:

**Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)**

#### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Harmful if swallowed or absorbed through skin. Causes moderate eye-irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with

soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**ENVIRONMENTAL HAZARDS:** 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 or rinsate.

**PHYSICAL OR CHEMICAL HAZARDS:** Do not use or store near heat or open flame. Do not mix or allow coming in contact with oxidizing agents. hazardous chemical reaction may occur.

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See inside label booklet for additional Precautionary Statements and Directions for Use.

[A589.02 is not manufactured, or distributed by Syngenta, seller of Trimmit® [2SC].]

Manufactured for:  
**Atticus, LLC**  
5000 CentreGreen Way, Suite 100  
Cary, NC 27513

EPA Reg. No.: 91234-XX  
EPA Est. No.: \_\_\_\_\_

NET CONTENTS: \_\_\_\_\_