



# Specimen Label

## Profile™ 2SC Tree Growth Regulator

**A GROWTH REGULATOR FOR THE REDUCTION OF TERMINAL GROWTH IN TREES.**

### Active Ingredient

Paclobutrazol: (±)-(R\*,R\*)-β-[(4-chlorophenyl)methyl]-α-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol..... 21.8%

Other Ingredients .....78.2%

TOTAL .....100.0%

Contains 2 pounds of active ingredient per one (1) U.S. gallon.

### KEEP OUT OF REACH OF CHILDREN

### CAUTION / PRECAUCIÓN

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

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist.

#### FIRST AID

<b>If swallowed</b>	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything to an unconscious person.
<b>If on skin or clothing</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
<b>If in eyes</b>	Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
<b>If inhaled</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at **1-800-535-5053**.

## **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

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

Applicators and other handlers wear:

Long-sleeved shirt and long pants;

Chemical-resistant gloves made of any waterproof material (such as barrier laminate, butyl rubber, nitrile rubber, or Viton® ≥14 mils); and

Shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, 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, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

## **PHYSICAL OR CHEMICAL HAZARDS**

Do not use or store near heat or open flame.

## **DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read all directions for use carefully before applying this product. Use only according to label directions.

*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.*

## **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 this 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.

PPE required 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 is:

Long-sleeved shirt and long pants;

Chemical-resistant gloves made of any waterproof material (such as barrier laminate, butyl rubber, nitrile rubber, or Viton® ≥14 mils); and

Shoes plus socks.

## **Use Information for Growth Regulation of Trees**

Profile 2SC growth regulator is a xylem mobile plant growth regulator that slows vegetative growth by inhibiting gibberellin biosynthesis. It reduces vegetative growth, thereby reducing the volume of woody growth that must be removed from trees when trimming occurs and may extend the trimming cycle. Profile 2SC is equally effective when applied as a soil-directed spray, basal soil drench or by soil injection.

Profile 2SC can be used on listed trees found in areas to include utility rights-of-way (i.e. below transmission lines, and railroad and highway rights-of-ways); urban environments (i.e. in parks and parking lot areas, storage areas, street medians and easements, commercial/municipal building or office sites, plazas, around walkways and sidewalks, above ground planters, and around schools, hospitals, and other buildings); residential areas; other non-crop areas (i.e. industrial sites, athletic fields and other recreational areas, naturalized areas and other uncultivated non-agricultural areas, fence and property lines, and airports); and in cropped areas where the tree crops (i.e. fruits and nuts) will not be harvested within one year of application.

**Symptoms of Growth Regulation:** Profile 2SC demonstrates little or no phloem mobility. Activity occurs following root uptake and xylem translocation throughout the tree canopy. Symptoms of growth regulation may not be visible for up to 18 months following application. Initial effects may be observed as intense greening of foliage with no resulting phytotoxicity. At the time when normal vegetative growth extension should occur, treated trees will exhibit shortened internodes which may be somewhat thickened. Smaller leaf size and increased flowering may also be observed in some species.

## **Use Restrictions for Applications to Trees**

- **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 which are severely stressed or rapidly declining due to moisture, temperature, low soil fertility, or exhibit mechanical or chemical injury.
- **DO NOT** reapply this product until symptoms from previous applications begin to subside, or within 3 years of the last application, whichever comes first.
- **Chemigation: DO NOT** apply this product through any type of irrigation system.

- Trees not used for food production that are not specifically listed on this label may be treated if all other label directions are followed.

### **Use Precautions for Applications to Trees**

- Soil type and environmental conditions can affect the degree and longevity of growth regulation following application of Profile 2SC. Follow label instructions to increase effectiveness depending on these factors.
- For soils that are hard-to-wet, the product's mobility can be enhanced by using a nonionic, organosilicone surfactant.
- If soil around tree or hedge is heavily compacted or a high water table exists, use of a registered trunk-injectable tree growth regulator such as Mastiff™ PGR may be more satisfactory.
- Spray, basal drench and soil injection application of this product may result in localized, temporary discoloration of turfgrass immediately adjacent to the treatment site.
- Avoid spray or basal drench applications on slopes or other areas where this product 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.

### **Application Information**

#### **Application Timing**

Applications can be made throughout the year, weather permitting, except when soil is frozen or saturated with water. NOTE: Profile 2SC 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, product uptake will not occur until development of new leaves in the spring and resumption of evaporative water loss.

#### **Mixing Directions**

Mix 317 ml (10.7 fl. oz.) of Profile 2SC with water to make one gallon of diluted mixture. One gallon of this product will make 12 gallons of diluted mixture. To improve the handling characteristics of the diluted mixture, the addition of a suspension aid is recommended. Follow all label directions and precautions on the product label of the suspension aid.

#### **Application Methods**

Profile 2SC may be applied as a spray directed at the soil beneath the trees, as a basal drench or by soil injection. Treat only trees that are well established in their final location. Treatment of trees less than 4 inches in diameter is not recommended.

#### *Basal Drench and spray*

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 (refer to Figure 1). Based on tree size and species, apply the required dose (refer to Table 1). Carefully pour the diluted product mixture into the bottom of the furrow with a graduated container/jug, with a handheld hose connected to a truck-mounted tank/hydraulic sprayer, or an applicator which provides a controlled rate of flow. To avoid possible product runoff after applying, refill the furrow with untreated soil.

#### *Soil Injection*

The diluted mixture of Profile 2SC should be injected approximately 6 inches deep. Use soil injection equipment capable of delivery at 100 to 200 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 trunk. The injection sites should be positioned to release diluted product mixture as close as possible to the point of contact between soil and unthickened bark beneath the soil so that the product may be readily absorbed by the tree. Injection

sites should also be located next to buttress roots (refer to Figure 2). For trees less than 6 inches in diameter at breast height (DBH), use at least 4 evenly spaced injection sites per tree.

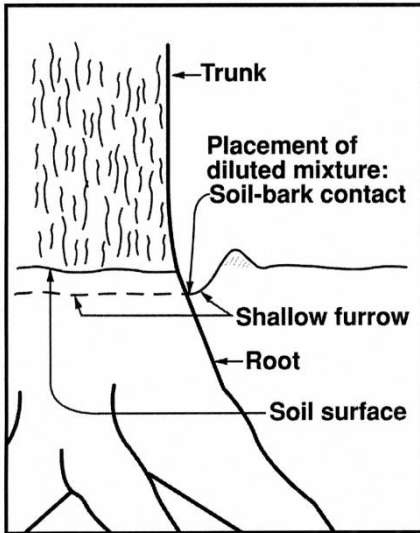


Figure 1. Placement of Profile 2SC as a spray or basal drench'

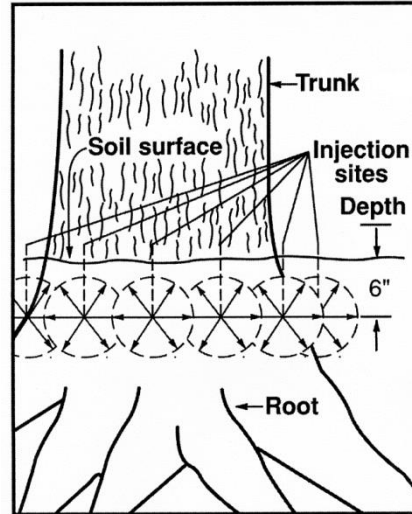


Figure 2. Placement of Profile 2SC as a soil injected treatment.

Application Rates		
TABLE 1. Application Rate Ranges for Diluted Mixture of Profile 2SC for Treatment of Various Tree*		
50 to 100 ml (1 to 2 grams a.i.) per inch DBH <sup>††</sup>	100 to 150 ml (2 to 3 grams a.i.) per inch DBH <sup>††</sup>	150 to 200 ml (3 to 4 grams a.i.) per inch DBH <sup>††</sup>
Sweetgum Australian Pine	Basswood Boxelder Elm(s) Eucalyptus Hackberry Littleleaf Linden Locust Maple(s) Oak(s) Sassafrass	Ash Bradford Pear Sycamore Tuliptree Weeping Willow Ficus <sup>†††</sup>

† For acidic soils (low pH), soils with high organic matter content or soils with high clay content, use the higher rate, not to exceed 4 grams per inch DBH.

†† Diameter at breast height

††† Not for use in California

**TABLE 2. Amount Of Profile 2SC Diluted Mixture Required For  
Specific Application Rates And Tree Sizes**

DBH† (Inches)	50 ml per inch DBH†	100 ml per inch DBH†	150 ml per inch DBH†	200 ml per inch DBH†
	Total ml Required	Total ml Required	Total ml Required	Total ml Required
4	200	400	600	800
5	250	500	750	1,000
6	300	600	900	1,200
7	350	700	1,050	1,400
8	400	800	1,200	1,600
9	450	900	1,350	1,800
10	500	1,000	1,500	2,000
11	550	1,100	1,650	2,200
12	600	1,200	1,800	2,400
13	650	1,300	1,950	2,600
14	700	1,400	2,100	2,800
15	750	1,500	2,250	3,000
16	800	1,600	2,400	3,200
17	850	1,700	2,550	3,400
18	900	1,800	2,700	3,600
19	950	1,900	2,850	3,800
20	1,000	2,000	3,000	4,000
21	1,050	2,100	3,150	4,200
22	1,100	2,200	3,300	4,400
23	1,150	2,300	3,450	4,600
24	1,200	2,400	3,600	4,800
25	1,250	2,500	3,750	5,000
26	1,300	2,600	3,900	5,200
27	1,350	2,700	4,050	5,400
28	1,400	2,800	4,200	5,600
29	1,450	2,900	4,350	5,800
30	1,500	3,000	4,500	6,000
31	1,550	3,100	4,650	6,200
32	1,600	3,200	4,800	6,400
33	1,650	3,300	4,950	6,600
34	1,700	3,400	5,100	6,800
35	1,750	3,500	5,250	7,000
36	1,800	3,600	5,400	7,200

†diameter at breast height

## **STORAGE AND DISPOSAL**

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

**Pesticide 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 cannot be used 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:**

**Nonrefillable Container (rigid, 5 gallons or less):** 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  $\frac{1}{4}$  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 the procedure two more times. Then offer the container for recycling (if available) 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.

**Nonrefillable Container (rigid, larger than 5 gal):** 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  $\frac{1}{4}$  full with water. Replace 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, treatment area, or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling (if available) 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.

Warranty Disclaimer: SePRO Corporation warrants that this product conforms to the chemical description on the product label. Testing and research have also determined that this product is reasonably fit for the uses described on the product label. To the extent consistent with applicable law, SePRO Corporation makes no other express or implied warranty of fitness or merchantability nor any other express or implied warranty and any such warranties are expressly disclaimed.

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