



74779-3

02/16/2007

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	U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505C) 1200 Pennsylvania Ave. N.W. Washington, D.C. 20460	EPA Reg. Number: 74779-3	Date of Issuance: FEB 16 2007
NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> Registration <input type="checkbox"/> Reregistration (under FIFRA, as amended)		Term of Issuance: Conditional Name of Pesticide Product: Cambistar™ 2SC _{II} Plant Growth Regulator for Trees	
Name and Address of Registrant (include ZIP Code): <i>Rainbow Treecare Scientific Advancements</i> <i>2239 Edgewood Avenue South</i> <i>Minneapolis, Minnesota 55426</i>			
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.			
<p>On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.</p> <p>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.</p>			
<p>This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:</p> <ol style="list-style-type: none"> 1. Submit and/or cite all data required for registration of your product under FIFRA Section 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA Section 4. 2. Make the following label changes before you release the product for shipment: <ol style="list-style-type: none"> a. Revise the EPA Registration Number to read, "EPA Reg. No. 74779-3." b. In the fifth to the last optional marketing claim on page 7 change the bracketed text from "[such as backyards]" to "[such as in backyards]". 			
Signature of Approving Official:  Cynthia Giles-Parker, Chief Fungicide Branch, Registration Division (7505C)		Date: FEB 16 2007	

c. In the last sentence in the first paragraph of the "General Information" section on page 2 change "...beneficial for tree health including..." to "...beneficial for trees including...".

d. In the sentence before Table 1 and the sentence before Table 2 change "For product updates or questions..." to "For or questions..".

e. At the beginning of the fourth to the last optional marketing claim on page 7 change "Helps to improve tree health..." to "Helps trees...".

3. Submit, by no later than one year following the date of this letter, a study or studies that fulfill the requirements for Storage Stability (Guideline Requirement Number 830.6317) and Corrosion Characteristics (Guideline Requirement Number 830.6320) of the subject product.

4. Submit one copy of the revised final printed label for the Agency's records before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation, in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Attachments: Product label stamped "ACCEPTED with COMMENTS"

Cambistat™ 2SC_{II}

Plant Growth Regulator for Trees

ACCEPTED
with COMMENTS
In EPA Letter Dated

FEB 16 2007

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

Active Ingredient:

Paclobutrazol (R*, R*)-(±)-β-[(4-chlorophenyl)
Methyl]-α-(1,1-dimethylethyl)-

1H-1,2,4-triazole-1-ethanol 22.3

Other Ingredients: 77.7

Total 100.0%

74779-3

Contains 2 lbs. 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 Side/Back Panel for Additional Precautionary Statements, First Aid and Directions for Use

EPA Reg. No. 74779-

EPA Est. No.

Net Contents: ½ gallon (1.89 L)
1 gallon (3.78 L)
5 gallons (18.9 L)

Rainbow Treecare Scientific Advancements

2239 Edgewood Ave. South

Minneapolis, MN 55426

1-877-ARBORIST

1-877-272-6747

www.rainbowscience.com

FIRST AID	
IF SWALLOWED	<ul style="list-style-type: none"> • 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 by mouth to an unconscious person.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 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.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
HOT LINE NUMBER	
For 24 hour medical emergency assistance (human or animal), or chemical emergency assistance (spill, leak or accident). Call 1-800-888-8372	

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes, or 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 cleaning equipment or disposing of equipment wash water.

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.

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.

General Information

Cambistat™ 2SC_{II} is a plant growth regulator that slows the vegetative growth of plants by inhibiting gibberellin biosynthesis. Cambistat™ 2SC_{II} is designed to gently and predictably slow the growth of trees. A single application provides a long lasting reduction of vegetative growth, effectively extending the trimming cycle of trees and reducing the amount of woody growth that must be removed. In addition, use of Cambistat™ 2SC_{II} creates other plant growth effects that are beneficial for tree health including increased root density, improved drought and heat resistance, and higher tolerance to insects and diseases. Cambistat™ 2SC_{II} may be applied by soil injection or basal soil drench.

Cambistat™ 2SC_{II} may be used on listed trees in utility rights-of-way, residential areas, urban areas, and other non-crop areas.

Indications of Tree Response:

Cambistat™ 2SC_{II} is readily absorbed by plant roots and is translocated to the actively growing points. Initially, an intense greening of the foliage may occur in response to Cambistat™ 2SC_{II} treatment. Long-term effects include: shortened internodes that are somewhat thickened, smaller leaf size, and enhanced flowering. Note that indications of response may take up to 18 months to occur.

General Use Precautions

- Apply at recommended rates and follow safety precautions.
- Non-fruit or nut bearing trees that are not specified on this label may be treated if all other label directions are followed.
- The degree and duration of Cambistat™ 2SC_{II} applications can be affected by local soil and environmental conditions. Carefully read and follow label instructions to ensure effectiveness.
- Do not reapply Cambistat™ 2SC_{II} until effects from the previous application begin to subside.
- Heavily compacted soils around trees may need to be vertical mulched, aerated or receive other remedial soil compaction treatment for Cambistat™ 2SC_{II} to effectively promote root growth.
- Localized, temporary discoloration of turfgrass or other non-target plants immediately adjacent to the treatment site will occur with application over run of Cambistat™ 2SC_{II}.
- Avoid Cambistat™ 2SC_{II} basal drench applications on inclines and other areas where treated soil is likely to be washed away from the base of the tree by rainfall or irrigation.
- Shrubs and/or herbaceous ornamentals next to treated trees may be affected if their roots extend into the treatment zone.
- Do not treat sugar maple trees or any other trees if they could be or will be tapped for sugar.
- Do not treat fruit or nut trees that will be harvested within one year.
- Do not treat severely stressed trees or trees in rapid decline.

- Do not apply Cambistat™ 2SC_{II} through any irrigation system.

APPLICATION METHODS

Soil Injection

Inject diluted Cambistat™ 2SC_{II} approximately 3-6 inches deep at 50-200 psi using Table 2 volumes. Orient injection orifices to release the diluted product horizontally at the point of injection. Divide the required dose evenly among injection sites spaced as uniformly as possible around the tree. Position the injection sites to release the diluted Cambistat™ 2SC_{II} as close as possible to the point of contact between the soil and the tree beneath the soil so that the solution is readily absorbed by the tree (Figure 1). Locate injection sites next to buttress roots (Figure 1). For trees less than 6 inches DBH, use at least 4 injection sites evenly spaced around the tree.

Soil Basal Drench

Apply the required dose (See Table 2 for rates based on tree size and species) evenly around the base of the tree in a shallow furrow that has been carefully dug around the base of the tree. Make the application at the point of contact between the soil and the tree trunk (Figure 2). Carefully pour the diluted Cambistat™ 2SC_{II} around the tree into the furrow using an applicator that provides a controlled flow. After the diluted product has been absorbed by the soil, refill the furrow with untreated soil.

APPLICATION TIMING

For a more manicured look, apply Cambistat™ 2SC_{II} to trees from 30 to 60 days before they are pruned. To allow some regrowth and a more natural look, apply Cambistat™ 2SC_{II} at the time of pruning.

Soil applications can be made throughout the year, except when the soil is frozen or saturated with water.

Note: When applied to the soil, Cambistat™ 2SC_{II} is absorbed by tree roots and translocated to the growing points (sub-apical meristems) in response to evaporative water loss (transpiration). If applications are made after leaf drop, uptake of Cambistat™ 2SC_{II} will not occur until development of new leaves and resumption of transpiration.

MIXING PROCEDURE

When mixing large amounts of Cambistat™ 2SC_{II}, mix only the amount that will be used within that day. Cambistat™ 2SC_{II} is best applied with equipment that has constant agitation. Mix 1 quart Cambistat™ 2SC_{II} to make 3 gallons of dilute mixture. To improve suspension of the diluted mixture, the addition of a suspension aid at a rate of approximately ½ to 2 pints per 100 gallons is recommended. To re-suspend the solution, use 1 to 2 pints per 100 gallons. Follow all directions and precautions on the product label of the suspension aid.

For product updates or questions, contact Rainbow Treecare Scientific Advancements at 877-272-6747.

Table 1

Application Rate Ranges for Diluted Mixture of Cambistat™ 2SC _{II} for Treatment of Various Tree Species ¹		
50 to 100 ml (1-2 grams a.i.) Per inch DBH	100 to 150 ml (2-3 grams a.i.) Per inch DBH	150 to 200 ml (3-4 grams a.i.) Per inch DBH
Australian pine Dogwood Redbud Sweetgum	Basswood Beech Boxelder Buckeye Catalpa Elm Hickory Horse Chestnut Linden	Alder Ash Aspen Birch Bradford Pear Cedar, Red Cherry, Black Cottonwood Eucalyptus

	Locust, Honey Maple Mountain Ash Olive, Russian Sassafras Walnut	Hackberry Locust, Black Magnolia Mulberry Oak Pines Poplar Redwood Sycamore Willow
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¹For acidic soils or soils with high organic matter or clay content, use the higher dosages.
 Call 877-ARBORIS(T) (877-272-6747) for product updates or questions.

**Table 2: Diluted Mixture Volumes of Cambistat™ 2SC_{II} Required for
 Specific Application Rates and Tree Sizes:**

Dia. of Tree at Breast Height (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	1000
6	300	600	900	1200
7	350	700	1050	1400
8	400	800	1200	1600
9	450	900	1350	1800
10	500	1000	1500	2000
11	550	1100	1650	2200
12	600	1200	1800	2400
13	650	1300	1950	2600
14	700	1400	2100	2800
15	750	1500	2250	3000
16	800	1600	2400	3200
17	850	1700	2550	3400
18	900	1800	2700	3600
19	950	1900	2850	3800
20	1000	2000	3000	4000
21	1050	2100	3150	4200
22	1100	2200	3300	4400
23	1150	2300	3450	4600
24	1200	2400	3600	4800
25	1250	2500	3750	5000
26	1300	2600	3900	5200
27	1350	2700	4050	5400
28	1400	2800	4200	5600
29	1450	2900	4350	5800
30	1500	3000	4500	6000
31	1550	3100	4650	6200
32	1600	3200	4800	6400

33	1650	3300	4950	6600
34	1700	3400	5100	6800
35	1750	3500	5250	7000
36	1800	3600	5400	7200

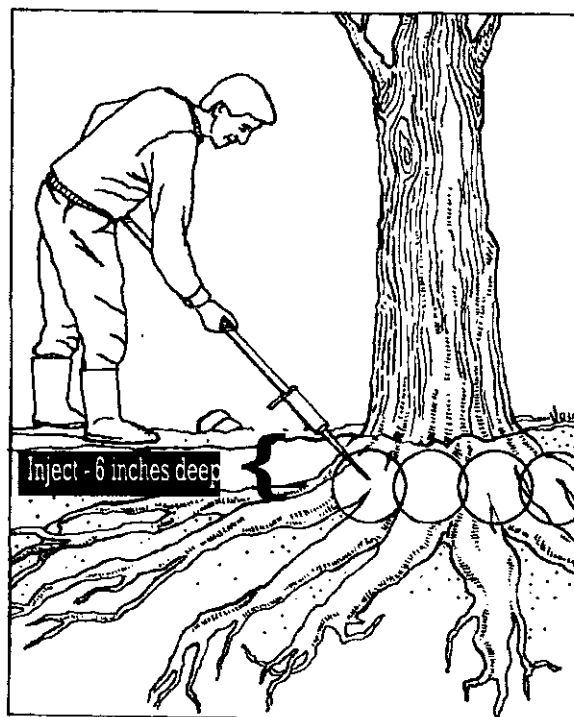


Figure 1. Placement of Cambistat™ 2SC_{II} as a soil-injected treatment.

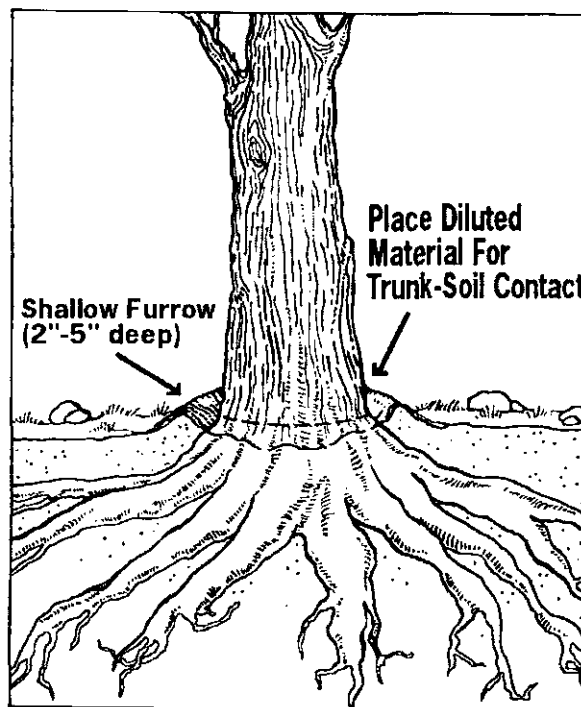


Figure 2. Placement of Cambistat™ 2SC_{II} as a basal drench.

STORAGE AND DISPOSAL

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

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 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: 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.

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.

Follow the Directions For Use carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Tree injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or tree conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS or seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS and Seller harmless for any claims relating to such factors.

RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS 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 the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS, and Buyer and User assume the risk of any such use. RAINBOW TREECARE MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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Patent Pending

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Committed to advancing the science of tree care

Reduced [utility] line clearance costs [up to 60%]

Improved customer satisfaction through reduced trimming and healthier trees

Up to 40 to 90% reduction in regrowth [for 3 years]

Up to 90% growth reduction* [*on selected species]

One application lasts up to 3 years

Enhances tree roots by promoting fine root density

Promotes fine root density

Improves drought resistance

Improves heat resistance

Extends trim cycle time

Extends trim cycle



Ideal for use on fast-growing trees to reduce growth

Reduces growth of trim cycle-beater trees

Reduces hot-spotting costs

Reduces [utility] line interference outages

Ideal for application on difficult to access trees [such as backyards]

Helps to improve tree health [by increasing fine root density] [by reducing drought stress] [by slowing trunk and shoot growth of trees in confined areas] [by countering the effects of Bacterial Leaf Scorch]

One application lasts up to 3 years [- lasts up to 10 years on some species]

Ideal for use on critical [utility] feeder lines for zone management

Protects investment in boulevard and parking lot trees