PM 22

62719-234

5-16-87

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Please read instructions on reverse before completing form.	Form Approved. OMB No. 2070-0060. Approval expires 05-31-98				
Environmental Protect	9460 rot network prince of the Public reserving burden for United by				
tening Asset of this collection of information polynome	ion-for Docticida - Section Las back, saffers abilità saissaithe de managina				
1. Company/Product Number	2. EPA Product Manager 3. Proposed Classification				
DowElanco/62719-234	Cynthia Giles-Parker				
4. Company/Product (Name) இது இது இது இது படி DowElanco/Profile* 2SC Tree Growth	Regulator 22 the sobstrans and beau expenses the solution of t				
5. Name and Address of Applicant (Include ZIP Code)	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)				
DowElanco 9330 Zionsville Road Indianapolis, IN 46268 Check if this is a new address	(b)(i), my product is similar or identical in composition and labeling to: 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.				
	Product Name				
	Section - II				
Amendment - Explain below. Resubmission in response to Agency letter dated X Notification - Explain below.	Final printed labels in response to Agency letter dated "Me Too" Application. Other - Explain below.				
Explanation: Use additional page(s) if necessary. (For section I and Section II.) 1. Precautionary Statement - placement of the KORAC Statement and Signature Changed in accordance with policy letter from EPA label unit dated MargoTFEL 1997 - Added Spanish statement 2. Application Rates - updated graphics WAY \ 6 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					
	Section - III				
1. Material This Product Will Be Packaged In:					
Child-Resistant Packaging Yes* No No No	Water Soluble Packaging Yes No No 2. Type of Container Metal Plastic Glass				
* Certification must be submitted If "Yes" No. per Unit Packaging wgt.	If "Yes" No. per Package wgt container Other (Specify)				
3. Location of Net Contents Information 4. Size(s) F	Retail Container 5. Location of Label Directions On Label				
Label Service Container Container Service Service	On Labeling accompanying product				
6. Manner in Which Label is Affixed to Product Lith	ograph Other				
Paper glued Stenciled of the second s					
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name	Title Telephone No. (Include Area Code)				
Steve A. McMaster	- J				
Certification made by severable contacts of the Control of the Con					
2. Signature	3. Title				
Steve a. Me Master 1.74	Regulatory Manager				
4. Typed Name	5. Date Take the control of the cont				
Steve A. McMaster	5/23/97				

K5A/Profile 2SC/Notif/05-21-97 p234m97d.doc

Profile* 2SC

Tree Growth Regulator 62719-234

Registration Notes:

Current label text based on EPA accepted copy dated April 28, 1997.

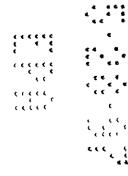
Proposed Label Changes by Notification coded "K5A/Profile 2SC/Notif/05-21-97":

- 1. Precautionary Statements
 - Placement of KORAC Statement and Signal Word changed in accordance with policy letter from EPA labeling unit dated March 26, 1997.
 - Added Spanish Statement
- 2. Application Rates
 - · Updated graphics.

*Trademark of DowElanco

New placement of KORAC/Signal Word

MAY 1 6 1997



Profile* 2SC

Tree Growth Regulator

62719-234

Registration Notes for Previous Labeling Actions:

Final Printed Label: Label text based on EPA-accepted copy dated April 28, 1997 with the following conditions:

Changes requested by EPA as conditions of acceptance:

- 1. Storage and Disposal Directions:
 - Added to base label
- 2. General Use Precautions:
 - Second Bullet revised to read: Trees not used for food production that are not specifically listed on this label may be treated if all other label directions are followed.

Directions for Use Section:	MAY 1 6 1997
Proposed Changes by Amendment:	NOTIFICATION
Proposed label amendment: Current label text based on EPA-accepted text	dated May 26, 1995.
Editor's Note: Added text underlined, deleted text denoted by strike through.	
*Trademark of DowElanco	

Directions for Use Section:

- General Information text edited for clarity.
- 2. "Approved Uses" section changed to "Application Methods".
- 3. Revised tree groupings relative to application rates and consolidated elms, maples and oaks to include all species.
- 4. Added guidance on when to use higher rate in rate range.
- 5. Added Figures 1 and 2 illustrating correct application techniques.
- 6 Revised application rate table and increased the number of injection sites per tree to improve uniformity of growth regulation.

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Editor's Note: Added text underlined, deleted text denoted by strike through.

Final Printed Labeling: Label text based on EPA-accepted copy dated May 26, 1995;and the following conditions of acceptance:

The following sentence in the General Use Precautions section was revised in accordance with EPA conditions of acceptance: "Trees not specifically identified on this label may be treated if all other label specifically identified on this label may be treated if all other label recommendations are followed."

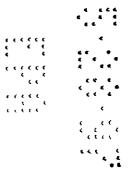
K5A/Profile 2SC/Notif/05-21-97 p234m97d.doc

Revisions EPA-Accepted 05/26/95: --

- 1. Precautionary Statements: Added use of protective eyewear while mixing and applying as basal drench.
- 2. Environmental Hazards: Added statement to allow application in "seasonally dry" wetland areas.
- Storage and Disposal: "Storage" statement revised to include use of waste material as directed by label.
- 4. General Information: Added the following statement for tree species not listed on this label: "Trees not specifically identified on this label may be treated if all other label recommendations are followed."
- 5. Directions for Use: (1) Minor editing for clarity; (2) Expanded rate tables for treatment of larger trees; (3) Adjusted application rate for certain species of oak.

Note: EPA notified DowElanco that the amended label for Profile as submitted on January 23, 1995, was unacceptable. The Agency objected to amendments as indicated in items 1, 2, and 3 above. In this final printed labeling, the changes proposed in items 1, 2 and 3 above have been deleted. The following revisions (items 4 and 5, above) were retained:

- 1. General Information: Added the following statement for tree species not listed on this label: "Trees not specifically identified on this label may be treated if all other label recommendations are followed."
- 2. Directions for Use: (1) Minor editing for clarity; (2) Expanded rate tables for treatment of larger trees; (3) Adjusted application rate for certain species of oak.



^{*}Trademark of DowElanco

(Base Label)

(Logo) DowElanco

Profile* 2SC

Tree Growth Regulator

For the reduction of terminal growth and pruning volume in trees not used for food production on sites such as utility rights-of-way, urban environments, residential areas and non-crop areas.

Active Ingredient:

Contains 2 pounds of active ingredient/gallon

U.S. Patent No. 4,243,405

Keep Out of Reach of Children

CAUTION PRECAUCION

Precaucion al usuario: Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

Precautionary Statements

Hazards to Humans and Domestic Animals Keep Out of Reach of Children

CAUTION

Harmful If Swallowed Or Absorbed Through The Skin

Avoid contact with eyes, skin 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.

First Aid

if swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce of vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

If on skin: Wash with plenty of soap and water.

If in eyes: Flush with plenty of water. Get medical attention if irritation persists.



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.

Storage and Disposal

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 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.

Plastic 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.

Refer to attached booklet for additional precautionary information and Directions for Use.

Notice: Read the entire label. Use only according to label directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet.

In case of emergency endangering health or the environment involving this product, call collect 517-636-4400.

Specialty Chemical: Do not ship or store with food, feeds, drugs or clothing.

Shake Well Before Use Product Must be Diluted Before Use

EPA Reg. No. 62719-234

EPA Est. 1471-IN-5

*Trademark of DowElanco
DowElanco • Indianapolis, IN 46268 USA

Specialty Growth Regulator

Net Contents 1 Gal

(Label Booklet)

(Logo) DowElanco

Profile* 2SC

Tree Growth Regulator

For the reduction of terminal growth and pruning volume in trees not used for food production on sites such as utility rights-of-way, urban environments, residential areas and non-crop areas.

Active Ingredient:

paclobutrazol: $(R^*,R^*)-(\pm)-\beta-[(4-chlorophenyl)]$ methyl $]-\alpha-(1,1-dimethylethyl)-$

1H-1,2,4-triazole-1-ethanol......21.8%

Contains 2 pounds of active ingredient/gallon

U.S. Patent No. 4,243,405

Keep Out of Reach of Children

CAUTION PRECAUCION

Precaucion al usuario: Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

Refer to inside of label booklet for additional precautionary information and Directions for Use including STORAGE AND DISPOSAL.

Notice: Read the entire label. Use only according to label directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet.

In case of emergency endangering health or the environment involving this product, call collect 517-636-4400.

Specialty Chemical: Do not ship or store with food, feeds, drugs or clothing.

Shake Well Before Use Product Must be Diluted Before Use

EPA Reg. No. 62719-234

EPA Est. 1471-IN-5

*Trademark of DowElanco .

DowElanco • Indianapolis, IN 46268 USA

Specialty Growth Regulator

Net Contents 1 Gal

(Page 1 through end):

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Harmful If Swallowed Or Absorbed Through The Skin

Avoid contact with eyes, skin 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.

First Aid

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 on skin: Wash with plenty of soap and water.

If in eyes: Flush with plenty of water. Get medical attention if irritation persists.

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 manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

Storage and Disposal

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 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.

Plastic 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.

General Information

Profile* 2SC tree growth regulator is a xylem mobile plant growth regulator that slows vegetative growth by inhibiting gibberellin biosynthesis. Profile 2SC 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 basal soil drench or by soil injection.

Profile 2SC can be used on listed trees found in areas such as utility rights-of-way, urban environments, residential areas and other non-crop areas.

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 of Profile 2SC. Initial effects of Profile 2SC may be observed as intense greening of foliage with no resulting phytotoxicity. At the time when normal vegetative growth extension should occur, trees treated with Profile 2SC will exhibit shortened internodes which may be somewhat thickened. Smaller leaf size and enhanced flowering may also be observed in some species.

General Use Precautions

- · Apply at recommended rates and follow safety procedures.
- Trees not used for food production that are not specifically listed on this label may be treated if all other label directions are followed.
- Trees which are severely stressed due to moisture, temperature, low soil fertility, or exhibit mechanical
 or chemical injury should not be treated.
- Do not reapply Profile 2SC until symptoms from previous applications begin to subside.
- If soil is heavily compacted or a high water table exists, use of a registered tree growth regulator such as Cutless* Tree Implants may be more satisfactory.
- Basal drench and soil injection application of Profile 2SC may result in localized, temporary discoloration
 of turfgrass immediately adjacent to the treatment site.
- Avoid basal drench applications on slopes or other areas where Profile 2SC 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.
- Do not treat nut or fruit trees that will be harvested within one year.

Chemigation: Do not apply this product through any type of irrigation system.

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, uptake of Profile 2SC 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 Profile 2SC 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 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

Apply the required dose [total ml required for the application rate and tree size (DBH)] £ k k ormly around the base of the tree at the point of contact between the soil and the tree trunk (Figure 1). The diluted ', mixture of Profile 2SC may be carefully poured around the tree or an applicator which provides a '''' controlled rate of flow may be used. If there is potential for rainfall or irrigation to move surface application

product to non-target plants, apply Profile 2SC diluted mixture to the bottom of a shallow furrow around the base of the tree. 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 tree trunk. The injection sites should be positioned to release Profile 2SC diluted mixture as close as possible to the point of contact between soil and unthickened bark 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 butress roots (Figure 2). For trees less than 6 inches DBH, use at least 4 evenly spaced injection sites per tree.

Application Rates

Applicati	on Rate Ranges for for Treatment of Va		
50 to 100 ml (1 to 2 grams a.i.) per inch DBH	100 to 150 ml (2 to 3 grams a.i.) per inch DBH		150 to 200 ml (3 to 4 grams a.i.) per inch DBH
Sweetgum Australian Pine	American Basswood Boxelder Elm(s) Eucalyptus Hackberry Littleleaf Linden	Locust Maple(s) Oak(s) Sassafrass	Ash Bradford Pear Sycamore Tuliptree Weeping Willow

[†]For acidic soils (low pH), soils with high organic matter content or soils with high clay content, use the higher rate in the rate range.

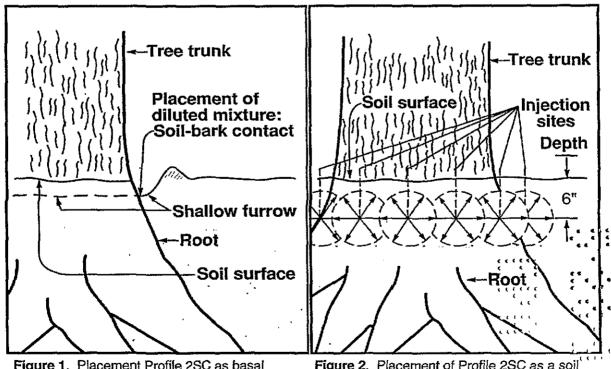


Figure 1. Placement Profile 2SC as basal drench.

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

Mofile

Amount Of Profile 2SC Diluted Mixture Required For Specific Application Rates And Tree Sizes:

Dia. of Tree	50 ml per 100 ml per 150 ml per 200 ml per				
at Breast	inch DBH	inch DBH	inch DBH	inch DBH	
Height	unon DDII	11.01. 55.1	mon bon	alon Duit	
(DBH)	Total ml	Total mi	Total mi	Total mi	
(inches)	Required	Required	Required	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	2400	5100	6800	
35	1750	3500	5250	. 7000	
36	1800	3600.	5400	7200	

Warranty Disclaimer

DowElanco warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. DowElanco MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to the label instructions (including adverse conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of DowElanco or the seller. All such risks shall be assumed by the buyer.

Limitation of Remedies

The exclusive remedy for losses or damages resulting from the use of this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at DowElanco's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used

DowElanco shall not be liable for losses or damages resulting from handling or use of this product unless DowElanco is promptly notified of such loss or damage in writing. In no case shall DowElanco be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of DowElanco or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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EPA-Accepted 04/28/97