1 of PM21 100-741 1/5

Please read instructions on reverse before completing form. Form Approved. OMB No. 2070-0060. Approval expires 05-31-98

EPA United States Environmental Protection Agency Washington, DC 20460

[ ] Registration [ ] Amendment [X] Other

OPP Identifier Number: 247550

Application for Pesticide - Section I

1. Company/Product Number: 100-741
2. EPA Product Manager: Welch
3. Proposed Classification: [ ] None [X] Restricted
4. Company/Product (Name): Alamo® Fungicide
PM# 21

5. Name and Address of Applicant *(Include ZIP Code)*
Ciba-Geigy Corporation
Ciba Crop Protection
Post Office Box 18300
Greensboro, NC 27419
[ ] *Check if this is a new address*

6. **Expedited Review.** In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:
EPA Reg. No. _____
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.)

Notification of change in EPA establishment number and return shipping address for used, empty containers.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging		Water Soluble Packaging		2. Type of Container
[ ] Yes* [X] No	[ ] Yes [X] No		[ ] Yes [X] No		[ ] Metal [X] Plastic [ ] Glass [ ] Paper [ ] Other (Specify) _____
* *Certification must be submitted*	If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container	

3. Location of Net Contents Information: [ ] Label [ ] Container
4. Size(s) Retail Container: 10 mls.
5. Location of Label Directions: [ ] On Label [ ] On Labeling accompanying product
6. Manner in Which Label is Affixed to Product: [ ] Lithograph [ ] Paper glued [ ] Stenciled [X] Other pressure sensitive

Section - IV

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)
Gregory R. Watson	Sr. Regulatory Manager	910-632-2993

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received (Stamped)

2. Signature: Gregory R. Watson/ad
3. Title: Sr. Regulatory Manager
4. Typed Name: Gregory R. Watson
5. Date: October 13, 1995

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete. White - EPA File Copy (original) Yellow - Applicant Copy

Alamo®

FUNGICIDE

A trunk-injected systemic fungicide for control of certain wilt diseases in oaks and elms

Active Ingredient: Propiconazole: 1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl] methyl]-1*H*-1,2,4-triazole	**14.3%**
Inert Ingredients:	**85.7%**
Total:	**100.0%**

EPA Reg. No. 100-741
EPA Est. 64014-FL-001

KEEP OUT OF REACH OF CHILDREN.
WARNING/AVISO

PRECAUCIÓN AL USUARIO: Si usted no lee inglés, no use este producto hasta que la etiqueta haya sido explicado ampliamente.

See additional precautionary statements at end of booklet.

ciba™

DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire **Directions for Use** and the **Conditions of Sale and Warranty** before using this product. If terms are not acceptable, return the unopened product container at once.

Conditions of Sale and Warranty

The **Directions for Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of Ciba-Geigy or the Seller. All such risks shall be assumed by the Buyer.

Ciba-Geigy warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions for Use** subject to the inherent risks referred to above. **Ciba-Geigy makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Ciba-Geigy or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product.** Ciba-Geigy and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing **Conditions of Sale and Warranty**, which may be varied only by agreement in writing signed by a duly authorized representative of Ciba-Geigy.

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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 DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR DISEASE CONTROL.

General Information

Alamo is a systemic fungicide for use as a root flare injection for prevention and treatment of (1) oak wilt *(Ceratocystis fagacearum)* of oak *(Quercus* spp.*)*, and (2) Dutch elm disease *(Ceratocystis ulmi)* of elms *(Ulmus* spp.*)*. These fungi infect the vascular system and cause plugging throughout the tree. It is recommended that Alamo be administered by trained arborists or others trained in injection techniques and in the identification of oak wilt and Dutch elm disease. Alamo should be injected into flare roots to ensure distribution throughout the vascular system of the tree.

Important: Oak trees exhibiting less than 20% crown loss from oak wilt will have the best chance of responding to treatment by Alamo. Preventive application is more effective than therapeutic treatment into trees showing disease symptoms. Trees in advanced stages of disease development may not respond to treatment.

Uninfected trees will generally absorb the full amount of Alamo within 1 hour. Trees exhibiting specific symptoms or symptomless trees immediately adjacent to a diseased tree should be considered infected. Symptomless trees separated by a primary plow line from diseased trees may be at less risk of infection. Infected trees will absorb the material more slowly, due to the vascular plugging caused by the disease. If Alamo is not absorbed within 24 hours, the tree is considered high risk and has a poor chance of survival.

Correct Location for Microinjection Placement

The root flare area is the transitional zone between the trunk and the root system. Uptake and distribution of Alamo is more effective when injections are made into the flare roots. In addition, wounds created in the root flare area close more rapidly in comparison to wounds above the root flare area.

Tree Measurement

Measure the diameter of the tree using a tree diameter tape (D tape) at 4½ ft. above the ground. This is the diameter at breast height (DBH). Use the DBH measurement to determine the number of microinjection units to inject into each tree.

Tree Preparation

1. Heavy, thick, or loose outer bark may be carefully shaved to form a smoother injection point and to ensure the operator that the drill hole penetrates through the bark to the xylem.
2. If the root flares are not clearly exposed, carefully remove 2-4 inches of soil from the base of the tree to uncover the top of the root flares. Brush away loose soil.
3. Do not space microinjection units further than 5 inches apart. A slight downward angle hole is recommended for more complete drainage of the microinjection unit.

Microinjection Procedure

1. Using an electric drill at 600-800 rpm, with a sharp, clean $^{11}/_{64}$ inch (0.4 cm) drill bit, the installer should drill evenly spaced holes to a depth of $^{3}/_{8}$-$^{1}/_{2}$ inch (0.90-1.3 cm) through the bark into the xylem.
2. After reaching the proper depth range, the drill bit should be withdrawn carefully to avoid dislodging bark fragments around the exterior opening of the hole.
3. Disinfect the drill bit between trees with Lysol or a 20% solution of household bleach. Rinse bit with clean water after treatment with Lysol or the bleach solution.
4. Each hole should be drilled and a microinjection unit installed as soon as possible after the hole is drilled. A small amount of water squirted into the drill hole will help form a tight seal.
5. While wearing the appropriate protective clothing and eye wear, manually insert the dispenser tube portion of the microinjection unit in the hole.
6. Placing the plastic installation cap over the rear barrel end, strike the cap with a plastic hammer to seat the microinjection unit firmly in the hole.
7. When the microinjection unit is positioned correctly in the tree, remove the cap and push the rear barrel portion of the unit downward until it is flush with the edge of the locking mechanism. This pressurizes the microinjection unit and assists in the movement of Alamo into the vascular system of the tree.

8. When properly installed, the microinjection unit generates internal pressure resulting in the flow of Alamo solution through the dispenser tube. The microinjection unit should never be activated unless installed correctly and securely in the tree to be treated.
9. Microinjection units containing Alamo may require up to several minutes or more to empty, depending on the health of the treated tree and local weather conditions. Microinjection units should be removed when the evacuation of Alamo is completed. Never assume that microinjection units have depressurized completely because they appear empty.
10. When removing the microinjection unit, wear eye protection and the gloves recommended in the **Precautionary Statements** portion of this label. Cover the microinjection unit with one hand near the point of insertion into the root flare while grasping the barrel end on the microinjection unit with the other hand. The microinjection unit should be twisted slightly as it is slowly withdrawn from the tree.
11. After units are removed from the trees, they must be discarded into the heavy-duty plastic disposal bag included in each carton of injector units. The bag should be properly sealed and placed in the original carton.
12. Sealed cartons should be returned freight prepaid for disposal to: Florida Silvics, Inc., Williston Airport Industrial Park, 479 Southwest 42nd Street, Williston, FL 32696.

Oak Wilt of Oaks, Dutch Elm Disease of Elms

For treatment of oak wilt and Dutch elm disease, use one microinjector unit of Alamo per each inch DBH.

Retreatment

At the initial injection of Alamo, take notes on the level of disease in each tree. Reevaluate disease level in trees at 12-month intervals after treatment for the potential need for retreatment with Alamo. After this 12-month period, continue to evaluate trees for the need for retreatment on an annual basis. Preventive applications should be considered 24 months after the initial injection. Trees in high disease risk areas or high value trees should be evaluated for possible retreatment 12 months after each treatment.

Follow application procedures described above for repeat injections; new drill holes will be needed for subsequent treatments.

Notes: (1) Accurate diagnosis of oak wilt and Dutch elm disease is important, since Alamo only provides control of the diseases listed on this label. (2) Alamo will be most effective when used in conjunction with other cultural practices recommended for management of oak wilt and Dutch elm disease (removal of dead elm trees, pruning of diseased tree limbs and branches, control of bark beetles, etc.). For further information on the proper diagnosis and control of oak wilt and Dutch elm disease, consult your local extension agent.

Storage and Disposal

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

Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of unused pesticide is a violation of federal law. If these wastes cannot be used according to label instructions, contact your local State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

Container Disposal

Do not reuse empty microinjector units. Used microinjector units should be placed in the heavy-duty plastic bag which accompanies each carton of injector units. The bag must be properly sealed, placed into the original shipping carton, and returned freight prepaid for disposal to: Florida Silvics, Inc., Williston Airport Industrial Park, 479 Southwest 42nd Street, Williston, FL 32696.

For minor spills, leaks, etc., follow all precautions listed on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING/AVISO

Causes substantial, but temporary eye injury. Wear goggles or face shield. Causes skin irritation. Do not get in eyes, on skin, or on clothing. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid breathing vapor. Wear rubber gloves and a long-sleeved shirt when mixing, handling, and applying the product. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

Statement of Practical Treatment

If in eyes: Immediately flush eyes with a steady, gentle stream of water. Get medical attention.

If on skin: Wash thoroughly with soap and water. Get medical attention if irritation occurs.

If swallowed: Do not induce vomiting. Drink plenty of water and contact a physician, hospital, or local Poison Control Center.

If inhaled: Move victim to fresh air.

Note to Physician: If ingested, lavage stomach to avoid aspiration. A slurry of activated charcoal in water can be left in the stomach. Give a saline laxative and supportive therapy.

Environmental Hazards

This pesticide is toxic to fish. 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 wash waters.

Physical or Chemical Hazards

Do not use or store near heat or open flame.

Ciba Crop Protection
Turf and Ornamental Products
Ciba-Geigy Corporation
Greensboro, North Carolina 27419

CGA 136L2A 095