

69117-3

5-17-2004

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Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060.

United States <b>Environmental Protection Agency</b> 1200 Pennsylvania Avenue, N.W. Washington, DC 20460-0001	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number
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**Application for Pesticide – Section I**

1. Company/Product Number <b>EPA Reg. No. 69117-3</b>	2. EPA Product Manager <b>Mary Waller</b>	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/ Product (Name) <b>Shepherd™ Fungicide</b>	PM # <b>21</b>	
5. Name and Address of Applicant (Include ZIP Code) <b>ArborSystems, LLC c/o RegWest Company, LLC 30856 Rocky Road Greeley, CO 80631-9375</b> <input type="checkbox"/> 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**

**NOTIFICATION**

<input type="checkbox"/> Amendment – Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input checked="" type="checkbox"/> Notification – Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated <b>MAY 17 2004</b> <input type="checkbox"/> "Me Too" Application. <input type="checkbox"/> Other – Explain below.
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**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.)

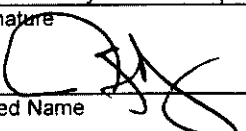
**Submit label revision notification per PR Notice 98-10  
(Refer to the attached Reference Label for an illustration of all changes)**

*This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR § 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to the EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR § 152.46 this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.*

**Section – III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
<b>*Certification must be submitted</b>	If "Yes" Unit Packaging Wgt.	No. Per Container	If "Yes" Packaging Wgt.	No. Per Container	<input type="checkbox"/> Glass
					<input type="checkbox"/> Paper
					<input type="checkbox"/> Other (Specify): _____
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling Accompanying Product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Stenciled <input type="checkbox"/> Paper glued <input type="checkbox"/> Other _____					

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application).		
Name <b>Kim Davis, CC, APC, Manager</b>	Title <b>Consultant/Agent</b>	Telephone No. (Include Area Code) <b>(970) 353-0611 / kim@regwest.com</b>
<b>Certification</b> 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 	3. Title <b>Consultant/Agent</b>	
4. Typed Name <b>Kim Davis, CC, APC, Manager</b>	5. Date <b>May 11, 2004</b>	

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# SHEPHERD™ Fungicide

For Systemic Fungicide Suppression of Selected Diseases in Trees

For Use by Professional Arborists/Applicators with the ArborSystems Wedgle™ Direct-Inject™ Tree Treatment System

Easy • No Drilling • No Posting • Saves Time and Money

**Active Ingredient:**

Propiconazole (CAS No. 60207-90-1) ..... 14.3%

**Other Ingredients** ..... 85.7%

Total ..... 100.0%

Contains 14 grams (0.5 oz.) active ingredient per 120 ml (4 oz.) bottle

**Keep Out of Reach of Children**  
**WARNING**  
 See inside [insert] for additional precautionary statements.

Net Contents: 4 oz. (120 ml)

EPA Reg. No. 69117-3

EPA Est. 69117-NE-1

Sold by

**ArborSystems**

www.ArborSystems.com

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans & Domestic Animals**

**WARNING:** 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 or neoprene gloves when handling this product. Thoroughly wash with soap and water after handling. Remove and wash contaminated clothing before reuse.

**First Aid**

<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>If on Skin or Clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If Swallowed</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</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 further treatment advice.</li> </ul>

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-698-4641 for emergency medical treatment information.

**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.

{Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.}

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### Environmental Hazards

This product 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.

### DIRECTIONS FOR USE

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

### GENERAL INFORMATION

#### ArborSystems Wedgle™ Direct-Inject™ Tree Treatment System using the Patented Wedgle™ Tip and WedgeChek™

The ArborSystems Wedgle™ Direct-Inject™ Tree Treatment System injects pesticides into a tree with minimal wounding. The system will inject chemicals into the area of bark separation where the chemical can be actively transferred to other parts of the tree. Injections made during the spring or summer will be more successful than waiting until the fall. Specifically, each tree needs to be inspected. The bark needs to be pliable and that depends upon local weather conditions.

#### ArborSystems Wedgle™ Direct-Inject™ Tree Treatment System

It's right for the trees. It's right for the company (increase profits). Minimizes wounding, promotes long-term tree vigor. Protects tree vascular system. Allows for annual retreatment. Complete treatment in 3 minutes per tree. No waiting, drilling, spraying, mixing or posting. Fast, easy and tree-friendly.

Shepherd Fungicide is a systemic fungicide for use as an injection for prevention and treatment of (1) Oak wilt (*Ceratocystis fagacearum*) of Oak (*Quercus* spp.), (2) Dutch Elm disease (*Ceratocystis ulmi*) of Elms (*Ulmus* spp.), (3) Sycamore anthracnose (*Apiognomonia veneta*), and (4) leaf diseases (i.e., *Venturia inaequalis*, *Gymnosporangium juniperi-virginianae*, *Pucciniastrum goeppertianum*, etc.) of Crabapple (*Malus* spp.).

These fungi infect the vascular system and cause plugging throughout the tree. It is recommended that Shepherd Fungicide be administered by trained arborists or others trained in injection techniques and in the identification of Oak wilt and Dutch Elm disease. When possible, Shepherd Fungicide should be injected into flare roots to ensure even 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 with Shepherd Fungicide. Preventive application is more effective than therapeutic treatment in trees showing disease symptoms. Trees in advanced stages of disease development may not respond to treatment.

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. Do not use on sick plants or plants weakened by extreme environmental conditions such as heat, flooding, cold, etc.

#### How to Use the ArborSystems Wedgle™ Direct-Inject™ Tree Treatment System:

1. Use protective eyewear and rubber or neoprene gloves when handling or installing the ArborSystems Wedgle™ Direct-Inject™ Tree Treatment System.
2. Attach the chemical bottle to the Wedgle™ Direct-Inject™ Unit.
3. Attach the Wedgle Tip to the Wedgle™ Direct-Inject™ Unit. Make sure the small hole in the tip is pointing straight up. Set the delivery volume on the unit to 1 ml or ½ ml, as appropriate.
4. Determine the thickness of the bark. Insert the Wedgle Tip into the fissure of the tree. If the tip penetrates more than the length of a WedgeChek the injection will be made in the fissure. If the tip penetrates less than the length of a WedgeChek the injection will be made through the tight bark of the tree. On thin-barked trees you may find it necessary to insert the WedgeChek in only one-half as far as normal.
5. Insert the WedgeChek™ Punch into the tree. Remove the punch and squeeze the trigger to remove the bark core. Examine the core to make sure the core that has been removed is approximately the same length as the WedgeChek. Repeat this step while moving around the flare of the tree. Be sure to follow the label directions on this insert to determine how many injection sites are needed on any given tree. Usually this is approximately 1 injection for every 3" to 5" of trunk circumference. Make WedgeChek insertions around the flare of the tree spacing evenly.
6. Place the WedgeChek on the protruding pin on the bottom of the grip then insert the WedgeChek directly into the punched hole. The barbs on the WedgeChek will secure it in the tree.
7. Insert the Wedgle Tip with a straight motion through the WedgeChek. Make sure the hole in the tip passes completely through the WedgeChek. As the tip is pushed through the WedgeChek and the bark, the blunt-edged tip automatically stops when it reaches the wood.

8. With a smooth motion, firmly squeeze both handles at the same time. This allows the bark to separate and the chemical to be deposited into the area. The WedgeChek plugs the hole, allowing the chemical to remain in the tree.
9. Slowly withdraw the tip and repeat this step while moving around the circumference of the tree.
10. Move laterally and make the next injection until the entire tree trunk has been treated. After the tree has taken up the chemical each WedgeChek can either be removed or left in the tree.

Indications	Dosage	<p>[[Illustrations of Injections Will Appear Here]]</p>
Treatment of Oak wilt disease for an uninfected Live Oak (not including Red Oak).	3-5 ml per injection site*	
Treatment of Dutch elm disease for an uninfected Elm or Oak other than Live Oak.	5-10 ml per injection site*	
Treatment of leaf diseases in Crabapple. Do not use fruit from treated trees for food or feed purposes. Treatment of Anthracnose in Sycamore.	1-2 ml per injection site*	

\*The number of injection sites is based on 1 injection for every 3" to 5" of trunk circumference.

**Retreatment:** Record the level of disease in each tree prior to initial Shepherd Fungicide injection. Consider preventative applications 12 months after the initial injection. Reevaluate the disease level in all trees, particularly those in high disease risk areas or high-value trees, for possible retreatment 12 months after each treatment and/or on an annual basis.

**Notes** (1) Accurate diagnosis of Oak wilt and Dutch Elm disease is important, since Shepherd Fungicide provides only suppression of the diseases listed on this label. (2) Shepherd Fungicide 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.). (3) If difficulty in keeping all of the chemical in per site is encountered, mark this site and move on to the others. When finished moving around to the trees, return to the marked tree and add the required amount of chemical needed.

**Storage and Disposal**

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

**Storage:** Store in a tightly closed container in a cool, dry place. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Disposal:** Triple rinse (or equivalent) then dispose of in an incinerator or landfill approved for pesticide containers.

**Notice of Warranty**

ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use under average conditions when used strictly in accordance with the directions on the labeling. ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

For assistance contact

**ArborSystems**

P.O. Box 34645 Omaha, NE 68134

Toll-Free: 1-800-698-4641 Phone: (402) 339-4459 FAX: (402) 339-5011

www.ArborSystems.com

Shepherd™ Fungicide, Wedgle™ Direct-Inject™, Wedgle™ Tip and WedgeChek™ are trademarks of ArborSystems

WedgeChek™ is protected by U.S. Patent #5,239,773

WedgeChek™ is protected by U.S. Patent #5,797,215

[ ] denotes alternate/optional language  
{ } denotes language that does not appear on the market label

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NOTIFICATION

MAY 17 2004

## SHEPHERD™ Fungicide

Easy • No Drilling • No Posting • Saves Time and Money

## SHEPHERD™ Fungicide

For Systematic Fungicide Suppression of Selected Diseases In Trees.  
For Use by Professional Arborists/Applicators with the ArborSystems  
Wedgie™ Direct-Inject™ Tree Treatment System.

### ACTIVE INGREDIENT:

Propiconazole (CAS No. 60207-90-1) ..... 14.3%

**OTHER INGREDIENTS** ..... 85.7%

Total: 100.0%

Contains 14 grams (0.5 oz.) active ingredient per 120 ml (4 oz.) bottle.

**Keep Out of Reach of Children**

### WARNING

See insert for additional precautionary statements.

### DIRECTIONS FOR USE

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

Refer to insert for complete Directions for Use.

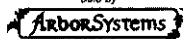
### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Do not  
reuse empty container. **Storage:** Store in a tightly closed container in a  
cool, dry place. **Pesticide Disposal:** Wastes resulting from the use of this  
product may be disposed of on site or at an approved waste disposal  
facility. **Container Disposal:** Triple rinse (or equivalent) then dispose of  
in an incinerator or landfill approved for pesticide containers.

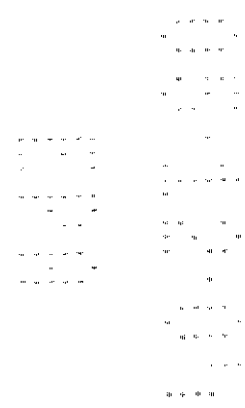
Net Contents 4 oz. (120 ml)

EPA Reg. No. 68117-3 EPA Est. 69117-NE-1

Sold by



www.ArborSystems.com



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# SHEPHERD™ Fungicide

For Use by Professional Arborists/Applicators with the ArborSystems® Merigle™ "Direct-Inject"™ Tree Treatment System. For Systematic Fungicide Suppression of Selected Diseases in Trees.

<b>ACTIVE INGREDIENT:</b>	
Merigle (CAS No. 60207-90-1).....	14.3%
<b>OTHER INGREDIENTS</b> .....	85.7%
<b>Total:</b>	<b>100.0%</b>

**Keeps Out of Reach of Children**

## WARNING

See insert for additional precautionary statements.

Contains 1.4 grams (0.5 oz.) active ingredient per 120 ml (4 oz.) bottle

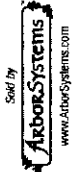
### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Refer to insert for complete Directions for Use.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Do not reuse empty container. **Storage:** Store in a tightly closed container in a cool, dry place. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Disposal:** Triple rinse (or equivalent) then dispose of in an incinerator or landfill approved for pesticide containers.

Net Contents 4 oz. (120 ml) EPA Reg. No. 69117-3 EPA Est. 69117-NE-1



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**SHEPHERD™ Fungicide**  
 For Systemic Fungicide Suppression of Selected Diseases in Trees.

For Use by Professional Arborists/Applicators with the ArborSystems Wedge™ Direct-Inject™ Tree Treatment System.

**ACTIVE INGREDIENT:**  
 Propiconazole (CAS No. 60207-90-1) ..... 14.3%

**OTHER INGREDIENTS** ..... 85.7%

Total: 100.0%


Contains 14 grams (0.5 oz.) active ingredient per 120 ml (4 oz.) bottle

**Keep Out of Reach of Children**

**WARNING**  
 See inside for additional precautionary statements.

Net Contents 4 oz. (120 ml)

EPA Reg. No. 69117-3  
 EPA Est. 69117-NE-1

Sold by  
  
 P.O. Box 34645 • Omaha, NE 68134  
 www.ArborSystems.com

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

**WARNING:** 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 or neoprene gloves when handling this product. Thoroughly wash with soap and water after handling. Remove and wash contaminated clothing before reuse.

**FIRST AID**

**If In Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. **If on Skin or Clothing:** Take off contaminated clothing. Immediately rinse skin with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. **If Swallowed:** Immediately call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. **If Inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by 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. You may also contact 1-800-698-4641 for emergency medical treatment information.

**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 product 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.

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

**GENERAL INFORMATION**  
**ArborSystems Wedge™ Direct-Inject™ Tree Treatment System using the Patented Wedge™ Tip and WedgeCheck™**

The ArborSystems Wedge™ Direct-Inject™ Tree Treatment System injects pesticides into a tree with minimal wounding. The system will inject chemicals into the area of bark separation where the chemical can be actively transferred to other parts of the tree. Injections made during the spring or summer will be more successful than waiting until the fall. Specifically, each tree needs to be inspected. The bark needs to be pliable and that depends upon local weather conditions.

SHEPHERD™ Fungicide is a systemic fungicide for use as an injection for prevention and treatment of (1) Oak wilt (*Ceratocystis fagacearum*) of Oak (*Quercus* spp.), (2) Dutch Elm disease (*Ceratocystis ulmi*) of Elms (*Ulmus* spp.), (3) Sycamore anthracnose (*Apiognomonia veneta*), and (4) leaf diseases (i.e., *Venturia inaequalis*, *Gymnosporangium juniperi-virginianae*, *Pucciniastrum goeppertianum*, etc.) of Crabapple (*Malus* spp.).

These fungi infect the vascular system and cause plugging throughout the tree. It is recommended that SHEPHERD™ Fungicide be administered by trained arborists or others trained in injection techniques and in the identification of Oak wilt and Dutch Elm disease. When possible, SHEPHERD™ Fungicide should be injected into flare roots to ensure even 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 with SHEPHERD™ Fungicide. Preventive application is more effective than therapeutic treatment in trees showing disease symptoms. Trees in advanced stages of disease development may not respond to treatment.

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**HOW TO USE THE ARBORSYSTEMS WEDGE™ DIRECT-INJECT™ TREE TREATMENT SYSTEM:**

1. Use protective eyewear and rubber or neoprene gloves when handling or installing the ArborSystems Wedge™ Direct-Inject™ Tree Treatment System.

...continued on back

**SHEPHERD™ Fungicide**  
 For Systemic Fungicide Suppression of Selected Diseases in Trees.

For Use by Professional Arborists/Applicators with the ArborSystems Wedge™ Direct-Inject™ Tree Treatment System.

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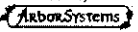
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 EPA Est. 69117-NE-1

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

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. Do not use on sick plants or plants weakened by extreme environmental conditions such as heat, flooding, cold, etc.

**HOW TO USE THE ARBORSYSTEMS WEDGE™ DIRECT-INJECT™ TREE TREATMENT SYSTEM:**

1. Use protective eyewear and rubber or neoprene gloves when handling or installing the ArborSystems Wedge™ Direct-Inject™ Tree Treatment System.

...continued on back

**SHEPHERD™ Fungicide**  
 For Systemic Fungicide Suppression of Selected Diseases in Trees.

For Use by Professional Arborists/Applicators with the ArborSystems Wedge™ Direct-Inject™ Tree Treatment System.

**ACTIVE INGREDIENT:**  
 Propiconazole (CAS No. 60207-90-1) ..... 14.3%

**OTHER INGREDIENTS** ..... 85.7%

Total: 100.0%

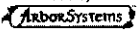
Contains 14 grams (0.5 oz.) active ingredient per 120 ml (4 oz.) bottle

**Keep Out of Reach of Children**

**WARNING**  
 See inside for additional precautionary statements.

Net Contents 4 oz. (120 ml)

EPA Reg. No. 69117-3  
 EPA Est. 69117-NE-1

Sold by  
  
 P.O. Box 34645 • Omaha, NE 68134  
 www.ArborSystems.com

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

**WARNING:** 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 or neoprene gloves when handling this product. Thoroughly wash with soap and water after handling. Remove and wash contaminated clothing before reuse.

**FIRST AID**

**If In Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. **If on Skin or Clothing:** Take off contaminated clothing. Immediately rinse skin with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. **If Swallowed:** Immediately call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. **If Inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by 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. You may also contact 1-800-698-4641 for emergency medical treatment information.

**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 product 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.

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

**GENERAL INFORMATION**  
**ArborSystems Wedge™ Direct-Inject™ Tree Treatment System using the Patented Wedge™ Tip and WedgeCheck™**

The ArborSystems Wedge™ Direct-Inject™ Tree Treatment System injects pesticides into a tree with minimal wounding. The system will inject chemicals into the area of bark separation where the chemical can be actively transferred to other parts of the tree. Injections made during the spring or summer will be more successful than waiting until the fall. Specifically, each tree needs to be inspected. The bark needs to be pliable and that depends upon local weather conditions.

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**OTHER INGREDIENTS** ..... 85.7%

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**HOW TO USE THE ARBORSYSTEMS WEDGE™ DIRECT-INJECT™ TREE TREATMENT SYSTEM:**

1. Use protective eyewear and rubber or neoprene gloves when handling or installing the ArborSystems Wedge™ Direct-Inject™ Tree Treatment System.

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2. Attach the chemical bottle to the Wedge™ Direct-Inject™ Unit.
3. Attach the Wedge™ Tip to the Wedge™ Direct-Inject™ Unit. Make sure the small hole in the tip is pointing straight up. Set the delivery volume on the unit to 1 ml or 1/2 ml, as appropriate.
4. Determine the thickness of the bark. Insert the Wedge™ Tip into the fissure of the tree. If the tip penetrates more than the length of a WedgeChek™ the injection will be made in the fissure. If the tip penetrates less than the length of a WedgeChek™ the injection will be made through the tight bark of the tree. On thin-barked trees you may find it necessary to insert the WedgeChek™ in only one-half as far as normal.
5. Insert the WedgeChek™ Punch into the tree. Remove the punch and squeeze the trigger to remove the bark core. Examine the core to make sure the core that has been removed is approximately the same length as the WedgeChek™. Repeat this step while moving around the flare of the tree. Be sure to follow the label directions on this insert to determine how many injection sites are needed on any given tree. Usually this is approximately 1 injection for every 3" to 5" of trunk circumference. Make WedgeChek™ insertions around the flare of the tree spacing evenly.
6. Place the WedgeChek™ on the protruding pin on the bottom of the grip then insert the WedgeChek™ directly into the punched hole. The bars on the WedgeChek™ will secure it in the tree.
7. Insert the Wedge™ Tip with a straight motion through the WedgeChek™. Make sure the hole in the tip passes completely through the WedgeChek™. As the tip is pushed through the WedgeChek™ and the bark, the blunt-edged tip automatically stops when it reaches the wood.
8. With a smooth motion, firmly squeeze both handles at the same time. This allows the bark to separate and the chemical to be deposited into the area. The WedgeChek™ plugs the hole, allowing the chemical to remain in the tree.
9. Slowly withdraw the tip and repeat this step while moving around the circumference of the tree.
10. Move laterally and make the next injection until the entire tree trunk has been treated. After the tree has taken up the chemical each WedgeChek™ can either be removed or left in the tree.

**INDICATIONS**

Treatment of Oak wilt disease for an uninfected Live Oak (not including Red Oak).  
**Dosage:** 3-5 ml per injection site.\*

Treatment of Dutch Elm disease for an uninfected Elm or Oak other than Live Oak.  
**Dosage:** 5-10 ml per injection site.\*

Treatment of leaf diseases in Crabapple. Do not use fruit from treated trees for food or feed purposes.  
**Dosage:** 1-2 ml per injection site.\*

Treatment of Anthracnose in Sycamore.  
**Dosage:** 1-2 ml per injection site.\*

\*The number of injection sites is based on 1 injection for every 3" to 5" of trunk circumference.

**Retreatment:** Record the level of disease in each tree prior to initial SHEPHERD™ Fungicide injection. Consider preventative applications 12 months after the initial injection. Reevaluate the disease level in all trees, particularly those in high disease risk areas or high-value trees, for possible retreatment 12 months after each treatment and/or on an annual basis.

**Notes:** (1) Accurate diagnosis of Oak wilt and Dutch Elm disease is important, since SHEPHERD™ Fungicide provides only suppression of the diseases listed on this label. (2) SHEPHERD™ Fungicide 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.). (3) If difficulty in keeping all of the chemical in per site is encountered, mark this site and move on to the others. When finished moving around to the trees, return to the marked tree and add the required amount of chemical needed.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. Do not reuse empty container. **Storage:** Store in a tightly closed container in a cool, dry place. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Disposal:** Triple rinse (or equivalent) then dispose of in an incinerator or landfill approved for pesticide containers.

**NOTICE OF WARRANTY**

ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use under average conditions when used strictly in accordance with the directions on the labeling. ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

For assistance contact



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Wedge™ Tip is protected by U.S. Patent #5,239,773

WedgeChek™ is protected by U.S. Patent #5,797,215

SH\_IN\_04-103

2. Attach the chemical bottle to the Wedge™ Direct-Inject™ Unit.
3. Attach the Wedge™ Tip to the Wedge™ Direct-Inject™ Unit. Make sure the small hole in the tip is pointing straight up. Set the delivery volume on the unit to 1 ml or 1/2 ml, as appropriate.
4. Determine the thickness of the bark. Insert the Wedge™ Tip into the fissure of the tree. If the tip penetrates more than the length of a WedgeChek™ the injection will be made in the fissure. If the tip penetrates less than the length of a WedgeChek™ the injection will be made through the tight bark of the tree. On thin-barked trees you may find it necessary to insert the WedgeChek™ in only one-half as far as normal.
5. Insert the WedgeChek™ Punch into the tree. Remove the punch and squeeze the trigger to remove the bark core. Examine the core to make sure the core that has been removed is approximately the same length as the WedgeChek™. Repeat this step while moving around the flare of the tree. Be sure to follow the label directions on this insert to determine how many injection sites are needed on any given tree. Usually this is approximately 1 injection for every 3" to 5" of trunk circumference. Make WedgeChek™ insertions around the flare of the tree spacing evenly.
6. Place the WedgeChek™ on the protruding pin on the bottom of the grip then insert the WedgeChek™ directly into the punched hole. The bars on the WedgeChek™ will secure it in the tree.
7. Insert the Wedge™ Tip with a straight motion through the WedgeChek™. Make sure the hole in the tip passes completely through the WedgeChek™. As the tip is pushed through the WedgeChek™ and the bark, the blunt-edged tip automatically stops when it reaches the wood.
8. With a smooth motion, firmly squeeze both handles at the same time. This allows the bark to separate and the chemical to be deposited into the area. The WedgeChek™ plugs the hole, allowing the chemical to remain in the tree.
9. Slowly withdraw the tip and repeat this step while moving around the circumference of the tree.
10. Move laterally and make the next injection until the entire tree trunk has been treated. After the tree has taken up the chemical each WedgeChek™ can either be removed or left in the tree.

**INDICATIONS**

Treatment of Oak wilt disease for an uninfected Live Oak (not including Red Oak).  
**Dosage:** 3-5 ml per injection site.\*

Treatment of Dutch Elm disease for an uninfected Elm or Oak other than Live Oak.  
**Dosage:** 5-10 ml per injection site.\*

Treatment of leaf diseases in Crabapple. Do not use fruit from treated trees for food or feed purposes.  
**Dosage:** 1-2 ml per injection site.\*

Treatment of Anthracnose in Sycamore.  
**Dosage:** 1-2 ml per injection site.\*

\*The number of injection sites is based on 1 injection for every 3" to 5" of trunk circumference.

**Retreatment:** Record the level of disease in each tree prior to initial SHEPHERD™ Fungicide injection. Consider preventative applications 12 months after the initial injection. Reevaluate the disease level in all trees, particularly those in high disease risk areas or high-value trees, for possible retreatment 12 months after each treatment and/or on an annual basis.

**Notes:** (1) Accurate diagnosis of Oak wilt and Dutch Elm disease is important, since SHEPHERD™ Fungicide provides only suppression of the diseases listed on this label. (2) SHEPHERD™ Fungicide 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.). (3) If difficulty in keeping all of the chemical in per site is encountered, mark this site and move on to the others. When finished moving around to the trees, return to the marked tree and add the required amount of chemical needed.

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**Notes:** (1) Accurate diagnosis of Oak wilt and Dutch Elm disease is important, since SHEPHERD™ Fungicide provides only suppression of the diseases listed on this label. (2) SHEPHERD™ Fungicide 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.). (3) If difficulty in keeping all of the chemical in per site is encountered, mark this site and move on to the others. When finished moving around to the trees, return to the marked tree and add the required amount of chemical needed.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. Do not reuse empty container. **Storage:** Store in a tightly closed container in a cool, dry place. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Disposal:** Triple rinse (or equivalent) then dispose of in an incinerator or landfill approved for pesticide containers.

**NOTICE OF WARRANTY**

ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use under average conditions when used strictly in accordance with the directions on the labeling. ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

For assistance contact



P.O. Box 34645 • Omaha, NE 68134  
 Toll-Free: 1-800-698-4641  
 Phone: (402) 339-4459  
 FAX: (402) 339-5011  
 www.ArborSystems.com

SHEPHERD™ Fungicide, Wedge™ Direct-Inject™, Wedge™ Tip and WedgeChek™ are trademarks of ArborSystems.

Wedge™ Tip is protected by U.S. Patent #5,239,773

WedgeChek™ is protected by U.S. Patent #5,797,215

SH\_IN\_04-103



May 11, 2004



Ms. Mary Waller, Product Manager 21  
 Document Processing Desk – **NOTIF**  
 Office of Pesticide Programs - **7504C**  
**U.S. Environmental Protection Agency**  
 1921 Jefferson Davis Highway  
 Crystal Mall 2, Room 266A  
 Arlington, VA 22202-5601

Dear Ms. Waller:

**Subject:** ArborSystems  
 Shepherd™ Fungicide  
 EPA Reg. No. 69117-3

On behalf of its client **ArborSystems**, RegWest Company, LLC is submitting the attached materials as notification of a label revision for subject product.. RegWest Company will act as sole agent in this endeavor.

Attached are the following:

1. Application for Pesticide: Other
2. Notification Acknowledgement
3. One **Reference Label** (illustrates the revisions)
4. One **New Label** (incorporating the revisions)
5. Two copies of final printed labeling

As illustrated on the **Reference Label**, the primary revision to this label is to standardize the name of the "system" to **ArborSystems Wedgle™ Direct-Inject™ Tree Treatment System** (instead of **Wedgle-TM- Direct-Inject Tree Injection System**). In addition, the name of the injection gun has been changed from **SW100 Injector Gun** to **Wedgle™ Direct-Inject™ Unit**. These are the market names chosen by my client and the marketing team for the injection system.

We are also deleting the instruction to "measure at 4.5' above the ground," as this is no longer a valid instruction within the industry, and adding selling copy (bullet points) to the front panel.

Please contact me at (970) 353-0611 or kim@regwest.com if you require additional information or have any questions.

Regards,  
**RegWest Company, LLC**

Kim Davis, CC, APC, Manager  
 Consultant/Agent

Attachments

pc: ASI - Doolittle, C.

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 Greeley, CO 80631-9375  
 970-353-0611  
 970-353-0613 Fax  
 Kim@regwest.com