
	<b>U.S. ENVIRONMENTAL PROTECTION AGENCY</b> <b>Office of Pesticide Programs</b> <b>Registration Division (7505P)</b> <b>Ariel Rios Building</b> <b>1200 Pennsylvania Ave., NW</b> <b>Washington, D.C. 20460</b>	EPA Reg. Number: 74779-4	Date of Issuance: <b>MAR 9 2007</b>
		Term of Issuance: <b>Conditional</b>	
NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> Registration <input type="checkbox"/> Reregistration (under FIFRA, as amended)		Name of Pesticide Product: <b>Arbor Guard 20S Fungicide</b>	
Name and Address of Registrant (include ZIP Code): <b>Rainbow Treecare Scientific Advancements</b> <b>c/o Lewis and Harrison</b> <b>122 C Street, N.W., Suite 740</b> <b>Washington, D.C. 20001</b> <span style="float: right;">Attn. Karen Warkentien</span>			
<b>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.</b>			
<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. 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 sec. 3(c)(7) (A) provided that you:</p> <ol style="list-style-type: none"> <li>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 re-registration of your product under FIFRA section 4.</li> <li>2. You must submit two copies of a final printed label within 45 days from the date of this notice which makes the following changes:           <ol style="list-style-type: none"> <li>A. EPA registration number must read 74779-4.</li> </ol> </li> </ol>			
Signature of Approving Official:   <b>Cynthia Giles-Parker, Chief</b> <b>Fungicide Branch</b> <b>Registration Division (7505P)</b>		Date:  <b>March 3/9/2007</b>	

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3. The following label changes must be made:

- On page 2, in the Personal Protective Equipment section, second line, the word "form" should be changed to "from".

- On page 3, in the Environmental Hazards section, second line, the phrase "water high mark" should read "high water mark".

- At the bottom of page 3, in the Application Methods section, place a period at the end of the last line.

- On page 4, in the Sycamore Trees-3 Year Treatment-Aid in the Control of Sycamore Anthracnose section, first sentence; change 8 fl. Oz to 4 fl. Oz.

4. The product chemistry data have been reviewed (copy enclosed) and the findings are as follows:

- The product chemistry data submitted corresponding to guidelines 830 series Subgroup A and Subgroup B are acceptable, except for the guidelines 830.6317 (one year storage stability) and 830.6320 (corrosion characteristics).

- The proposed Confidential Statement of Formula for basic formulation (dated August 1, 2006 is acceptable.

- You must submit the results of studies for the guidelines 830.6317 (one year storage stability) and 8310.6320 (corrosion characteristics). It is recommended that the observations must be made at 0, 3, 6, 9 and 12 month intervals. The results must be submitted in a hard copy and an electronic format is also requested.

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.

A copy of the label stamped "Accepted with comments" is enclosed for your records.

Sincerely,

Cynthia Giles-Parker, Chief  
Fungicide Branch  
Registration Division (7505P)

Enclosure

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# ArborGuard 20-S Fungicide

Active Ingredient:	
Thiabendazole Hypophosphite (CAS No.28558-32-9).....	26.6
(equivalent to 20% Thiabendazole)	
Other Ingredients .....	73.4
Total .....	100.0%

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. 74779-MN-1

Net Contents:

Distributed by:

Rainbow Treecare Scientific Advancements

2239 Edgewood Ave. South

Minneapolis, MN 55426

1-877-ARBORIST

1-877-272-6747

www.rainbowscience.com

**ACCEPTED**  
**with COMMENTS**  
**In EPA Letter Dated**  
**MAR 9 2007**  
**Under the Federal Insecticide,**  
**Fungicide, and Rodenticide Act**  
**as amended, for the pesticide**  
**registered under EPA Reg. No. 74779-4**

<b>FIRST AID:</b>	
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"><li>• Call poison control center or doctor immediately for treatment advice.</li><li>• Do not give any liquid to the person</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 mouth to mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<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>
Have the product container or label with you when calling a poison control center or doctor or going for treatment	
<b>HOT LINE NUMBER</b>	
For 24 hour medical emergency assistance (human or animal), or chemical emergency assistance (spill, leak, fire, or accident). Call CHEMTREC at 1-800-424-9300	

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

**CAUTION:** Harmful if swallowed. Harmful if inhaled. Avoid breathing spray mist. May irritate skin. Avoid contact with skin or eyes.

**Personal Protective Equipment (PPE)**

Mixers, loaders, applicators, and other handlers must wear:

- Long sleeved shirt
- Shoes plus socks

Follow manufacturer's instructions for cleaning maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**User Safety Recommendations:**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

#### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean water high mark. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

#### 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.

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.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The requirements in this box apply to uses that are covered by the Worker Protection Standard.

The restricted entry interval (REI) is 0 hours.

#### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

The restricted entry interval (REI) is 0 hours.

#### General Information

ArborGuard 20-S is a systemic fungicide that is highly effective against the fungal pathogens that cause Dutch Elm Disease and Sycamore Anthracnose. ArborGuard 20-S is highly resistant to degradation and has the unique ability to move into newly formed tissue each year. When injected into the root flares, ArborGuard 20-S distributes evenly throughout the tree canopy providing protection for up to 3 years before reapplication is needed.

#### APPLICATION METHODS

##### Elm Trees – 3 growing season treatment – For Preventative Treatment of Dutch Elm Disease

Inject 12 fl. oz. of ArborGuard 20-S for each 5 inches of trunk diameter. Dilute each 2 fl. oz. of ArborGuard 20-S with 1 gallon of water. Inject into any exposed root flares, below ground, once every three years. Place injection sites into root flares at 3-10 inch intervals around the tree with a maximum hole diameter of ¼ inch. Where needed, the root flares will need to be exposed through soil excavation. Trees treated into trunk wood will not be as effectively protected. A typical tree will require 1.3 injections sites per diameter inch. For best results, infusions should be made after the tree is fully leafed and the seeds have dropped, through late summer or early fall

- Do not use this treatment if trees are less than 10 inches in diameter.
- If pressure injection is to be used, do not exceed 30 psi.
- Do not dilute ArborGuard 20-S with highly alkaline water as a precipitate may form. Pre-test your water source by mixing a small amount of ArborGuard 20-S with water. If the solution turns white use different water.

#### Re-treatment

ArborGuard 20-S will provide 3 growing seasons of protection in most situations. However, protection in the third year after treatment will be slightly less than the first 2 years. In high disease pressure situations and for trees over 30 inches in diameter, re-treatment may need to be considered during the 3<sup>rd</sup> growing season after the tree was initially treated.

#### Therapeutic Treatment of Elms

Before treating a diseased elm with ArborGuard 20-S, it is important to first isolate the disease from the tree using tracing techniques or limb removal. Macro-infusing an elm tree that has the Dutch elm disease fungus actively growing will result in the failure of the treatment. More information on saving elms that are infected with the Dutch elm disease fungus can be found at [www.ArborGuard-ELM.com](http://www.ArborGuard-ELM.com)

### **Sycamore Trees – 3 Year Treatment – Aid in the Control of Sycamore Anthracnose**

For each 5 inches of trunk diameter, macro-infuse 8 fl. oz. of ArborGuard 20-S. (One part ArborGuard 20-S should be diluted with between 20 and 40 parts of water). For large trees over 30" diameter, infuse up to 12 fl. oz. of ArborGuard 20-S per 5 inches of trunk diameter. For best results, infusions should be made after the tree is fully leafed (post infection) through late summer or early fall. Treatments will aid in the control of sycamore anthracnose for up to 3 growing seasons. Trees over 50 inches diameter may need 2 consecutive treatments 1 year apart to obtain the desired level of protection

Place injection sites at 3 to 10 inch intervals around the root flares. Trees treated into trunk wood will not be as effectively protected. Use a maximum hole diameter of ¼ inch using a minimum of 3 or 4 equally spaced injection points per tree. A typical tree will require 1.3 injection sites per diameter inch. It is important that injection sites be placed in root flares at or below ground level.

- Trees that are 5 inches or less in diameter at chest height should not be treated.
- If pressure injection is to be used, do not exceed 30 psi.
- Do not dilute ArborGuard 20-S with highly alkaline water as a precipitate may form. Pre-test your water source by mixing a small amount of ArborGuard 20-S with water. If the solution turns white – use different water.

For information on how to manage Dutch Elm Disease as well as most effectively and efficiently treat elms please contact Rainbow Treecare Scientific Advancements at 1-877-272-6747 or visit the website [www.ArborGuard-ELM.com](http://www.ArborGuard-ELM.com).

ArborGuard 20-S is intended for use by trained arborists others trained in the use of injection equipment and in the identification of sycamore anthracnose and Dutch elm disease.

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**STORAGE AND DISPOSAL**

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

**Pesticide Storage:** Store in original containers only. Keep container closed when not in use. Do not store near food or feed.

**Pesticide Disposal:** Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to Federal, State, or local procedures under the Resource Conservation and Recovery Act.

**Plastic Container Disposal:** Do not reuse container. Triple rinse (or equivalent), then puncture and dispose of in a sanitary landfill or alternatives allowed by State and local authorities.

For minor spill, leaks, etc., follow all precautions indicated 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 800-424-9300, day or night.

**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.

The Directions for Use of this product should be followed 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. 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 OR 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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**OPTIONAL MARKETING CLAIMS**

Committed to advancing the science of tree care.

Committed to bringing tools inside protocols that get predictable results for the arborist practitioner.

Protects trees for up to 3 years

**SCIENTIFIC ADVANCEMENTS**

Formulated in the USA



**Rainbow** Treecare™

For Dutch Elm Disease and Sycamore Anthracnose