

74779-1

03/26/2008

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460



OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

3/26/2008

David L. Anderson  
Rainbow Treecare Scientific Advancements  
2239 Edgewood Ave S  
Minneapolis, MN 55426

Re: Aracinate Tree Injection, EPA Reg # 74779-1  
label amendment submitted 1/8/2008  
accepted

Dear Mr. Anderson:

This label amendment adds additional text to clarify the application instructions and reapplication interval. The revised labeling reference to above, submitted in connection with the registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is ACCEPTABLE.

Submit two (2) copies of your final printed labeling incorporating the above changes prior to releasing your product for shipment. If the above provisions 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 bearing the amended labeling constitutes acceptance of these conditions.

A copy of the label stamped "accepted" is enclosed for your records.

Yours truly,

/s/

Thomas C. Harris  
Insecticide / Rodenticide Branch  
Registration Division (7505C)  
Office of Pesticide Programs  
(703) 308-9423  
[harris.thomas@epa.gov](mailto:harris.thomas@epa.gov)

enclosure

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# Aracinate™ Tree Injection

KEEP OUT OF REACH OF CHILDREN

## WARNING/AVISO

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.)

For injection into ornamental and non-crop-bearing trees and woody shrubs in nurseries, greenhouses, interior and exterior plantscapes, and in private, municipal, state, and national forested areas for control of mites, suppression and control of certain insects, and for prevention of pine wilt nematode.

<b>Active Ingredient</b>	
Abamectin (CAS No. 65195-56-4 and 65195-55-3).....	2.0%
Other Ingredients:.....	98.0%
	Total.....100.0%

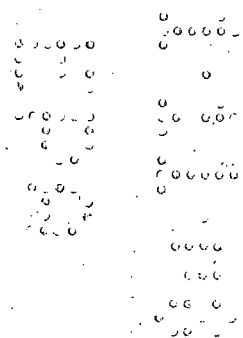
EPA Reg. No. 74779-1

EPA Est. No. 63416-MN-001

Net Contents: 250 ml of Aracinate™ Tree Injection.

Rainbow Treecare Scientific Advancements  
 2239 Edgewood Ave. South  
 Minneapolis, MN 55426  
 1-877-272-6747

**ACCEPTED**  
 MAR 26 2008  
 Under the Federal Insecticide,  
 Fungicide, and Rodenticide Act  
 as amended, for the pesticide  
 registered under EPA Reg. No.  
74779-1



<b>FIRST AID:</b>	
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Call a 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 a doctor</li> <li>• Do not give anything by mouth to an unconscious person.</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 further treatment advice.</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>
<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>
<p><b>NOTE TO PHYSICIAN</b></p> <p>Early signs of intoxication include dilation of pupils, muscular incoordination and muscular tremors. Toxicity following accidental ingestion of Aracinate can be minimized by early administration of chemical adsorbents (e.g. activated charcoal).</p> <p>If toxicity from exposure has progressed to cause severe vomiting, the extent of the resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parental fluid replacement therapy should be given along with other required supportive measures (such as maintenance of blood pressure levels and proper respiratory functionality) as indicated by clinical signs, symptoms, and measurements.</p> <p>In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since abamectin is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure.</p> <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	

**HOT LINE NUMBER**

For 24 hour medical emergency assistance (human or animal)  
or chemical emergency assistance (spill, leak or accident)  
Call  
CHEMTREC at 1-800-424-9300

**PRECAUTIONARY STATEMENT**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**WARNING:** May be fatal if swallowed. Causes substantial, but temporary eye injury. Wear protective eyewear. Do not get in eyes, or on clothing. Harmful if inhaled or absorbed through the skin. Prolonged or frequently repeated exposure may cause allergic skin reactions in some individuals. Do not breathe vapor. Avoid contact with skin

**Personal Protective Equipment**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category B on an EOA chemical-resistance category selection chart.

Mixers, loaders, applicators and other handlers must wear:

- Coveralls over short sleeved shirt and short pants
- Chemical-resistant gloves – EPA chemical-resistance category B (e.g. barrier laminate or butyl rubber ≥ 14 mils).
- Chemical resistant footwear plus socks
- Protective eyewear
- Wear chemical-resistant apron when cleaning equipment, mixing or loading.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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 immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Environmental Hazards

This pesticide is toxic to fish and wildlife. 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 water or rinsate. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds.

Physical or Chemical Hazards

Do not use or store near heat or open flame.

ATTENTION

This product contains a chemical (N-methyl pyrrolidone) known to the state of California to cause birth defects or other reproductive harm.

DIRECTIONS FOR USE

It is a violation of Federal (U.S.) law to use this product in a manner inconsistent with its labeling. **Aracinate™ Tree Injection** is a specially formulated water soluble Abamectin to be used for injection into non-crop bearing trees for control of mites, suppression and control of certain insects, and for prevention of pine wilt nematode. **Aracinate™ Tree Injection** can be used as directed by commercial applicators on all non-crop bearing species of ornamentals located in commercial and residential areas wherever trees and woody shrubs are grown. **Aracinate™ Tree Injection** can also be used in commercial forestry production, nurseries, greenhouses, and in recreational forests. Certain insecticide applications may result in an increase in mite populations on treated ornamentals; this product may be used immediately following an insecticide application to reduce follow-up outbreaks in mite populations.

**Dosage and Timing:**

As with most pesticides, because efficacy may vary depending on weather conditions, geographic conditions and other biological factors, applicators should treat small-scale outbreaks on a small number of trees prior to treating large numbers of trees.

**Mites on Woody Ornamentals**

**Including:**

- European Red Mite
- Twospotted Spider Mite
- Camine Spider Mite
- Southern Red Mite
- Spruce Spider Mite
- Tarsonemid Mites
- Cyclamen and Broad Mites
- Eriophyid Mites
- Rust and Bud Mites

**Insects on Woody Ornamentals**

**Including:**

- Adelgids
- Aphids
- Boxwood Leafminer
- Elm leaf beetle
- Flathead borer
- Lacebug
- Lepidoptera insects (such as Eastern Tent Caterpillar and Fall Webworm)
- Leafminers
- Scale
- Thrips
- White pine weevil

**Nematodes on Pines**

- Pine Wilt Nematode

**Dosage and Timing**

Use 5 milliliters of Aracinate™ Tree Injection per 2 inches of cumulative trunk diameter at 4.5' above ground level. To determine the number of injection devices, divide the tree diameter by 2. If this results in a fraction, round up to the nearest whole number. Fill each device with 5 ml of product. Space injection sites approximately 6" apart around the circumference of the tree.

[Or]

[Use 5 milliliters of Aracinate™ Tree Injection per 2 inches of cumulative trunk diameter at 4.5' above ground level diluted in 10 ml of water, so that each injection device is filled with 15 ml of total solution. To determine the number of injection devices, divide the tree diameter by 2. If this results in a fraction, round up to the nearest whole number. Space injection sites approximately 6" apart around the circumference of the tree. ]

Apply 2 weeks before expected emergence of the pest or as the pest appears.

**Follow "Dosing and Timing" Recommended For Mites**

**Dosage and Timing**

**For applications on pine wilt nematode do not dilute with water, inject straight concentrate into the tree.**

For prevention of pine wilt nematode:

Use 30 milliliters of Aracinate™ Tree Injection for the first 6 diameter inches at 4.5' above ground level and an additional 15 ml of Aracinate™ Tree Injection for each additional diameter inch. Divide the total dosage evenly between each injection device. A single treatment will prevent pine wilt nematode infection for two growing seasons. In some cases, it may take longer for each injection unit to empty out when injecting pine species.

Optimal results are obtained when injections are made in the spring of the year.

Table 1: Pine Wilt Nematode Dosage Rate per Tree Diameter at Breast Height (DBH)

DBH	Mls required for treatment	DBH	Mls required for treatment
6	30	24	300
7	45	25	315
8	60	26	330
9	75	27	345
10	90	28	360
11	105	29	375
12	120	30	390
13	135	31	405
14	150	32	420
15	165	33	435

16	180	34	450
17	195	35	465
18	210	36	480
19	225	37	495
20	240	38	510
21	255	39	525
22	270	40	540
23	285		

### Mixing Instructions

1. See the table above to determine the proper dosage rate for Aracinate™ Tree Injection.
2. Shake the Aracinate™ Tree Injection concentrate container prior to measuring out the desired amount.
3. Following the manufacturer's recommendations, dispense the desired amount of Aracinate™ Tree Injection into the refillable injection device.

### Application Instructions

Aracinate™ Tree Injection can be used with a variety of root-flare injection devices. For all injection devices, read carefully and follow all manufacturer use directions.

When using multiple injection devices, it is important to drill the hole only for that device, seat the device, and start the injection process immediately prior to drilling and seating the next device. This limits the amount of resin buildup, which can slow down the uptake time.

Most injection devices may require up to several minutes or more to empty into the tree depending on the health of the treated tree and local weather conditions. Do not leave injection devices unattended

### Reapplication

[Mites and insects] This product may be reapplied annually.

[Pine Wilt Nematode] A single treatment will prevent pine wilt nematode infection for two growing seasons. Retreat every other year.

### Removal

Promptly and safely remove the injection devices according to the manufacturer's instructions after the solution has emptied into the tree. Do not leave empty injection devices on trees. Follow the manufacturer's recommendations for proper cleaning and storage of the injection devices.

If the injection device does not completely empty within a few hours, depressurize the device and remove following manufacturers instructions so as to prevent any leaking of the solution. When using a refillable injection device, empty the leftover solution into an enclosed chemical resistant container. After the leftover solution has been emptied from the injection device, triple rinse the device with water. Ensure that the rinsate is collected in an enclosed chemical resistant container. Dispose of the leftover solution and rinsate according to state and local authorities.

### Restrictions

- Use only on non-crop bearing trees and shrubs. Do not use on trees or shrubs, which will produce food within one year following application.
- Due to toxicity to bees, use for micro-injection only as a post bloom application.
- Aracinate™ Tree Injection is not for use on trees and shrubs less than 2" Diameter at Breast Height.

**Storage and Disposal**

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. 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 offer for pesticide container recycling, dispose of in an incinerator or landfill approved for pesticide containers, or dispose of by other procedures approved by state and local authorities.

For minor spills, 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.

**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 must 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. To the extent consistent with applicable law, 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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