
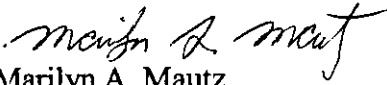


74779-5

03/07/2007

1110

 <p style="text-align: center;">U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505P) Ariel Rios Building 1200 Pennsylvania Ave., NW Washington, D.C. 20460</p> <p style="text-align: center;">NOTICE OF PESTICIDE: <u> x </u> Registration <u> </u> Reregistration (under FIFRA, as amended)</p>	EPA Reg. Number: 74779-5	Date of Issuance: MAR 7 2007
	Term of Issuance: conditional	
	Name of Pesticide Product: Acephate Infusible Insecticide	
Name and Address of Registrant (include ZIP Code): Rainbow Treecare Scientific Advancements 2239 Edgewood Ave. S. Minneapolis, MN 55426		
<p>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.</p> <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 style="text-align: center;">This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:</p> <ol style="list-style-type: none"> 1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data. 2. Add the following designation before the product is released for shipment: EPA Reg. No. 74779-5: 3. Submit two copies of the revised final printed label. <p>If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.</p> <p style="text-align: center;">A stamped copy of the label is enclosed for your records.</p>		
Signature of Approving Official:  Marilyn A. Mautz Biologist Insecticide-Rodenticide Branch Registration Division (7504P)	Date: MAR 7 2007	

2/10

[Label for Container Containing Multiple Packets]

Acephate Infusible Insecticide

For the control of insect pests of trees and landscape ornamentals in exterior plantscapes, nurseries, tree farms, and forests.

Active Ingredient	
Acephate (O,S-Dimethyl acetylphosphoramidothioate).....	97.4%
Other Ingredients.....	2.6%
<hr/> Total	<hr/> 100.0%

EPA Reg. No. 74779-

EPA Est. No.

**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

Net Contents: 300 g (0.06 lb) [Consists of 20 15 g (0.03 lb) foil packets]

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

ACCEPTED
MAR 7 2007
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide Registered under EPA Reg. No. 74779-5

FIRST AID:	
IF SWALLOWED	<ul style="list-style-type: none">• Call poison control center or doctor immediately 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 IN EYES	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
IF INHALED	<ul style="list-style-type: none">• Move person to fresh air• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.• Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes• Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
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.	
NOTE TO PHYSICIAN	
This material contains a cholinesterase inhibitor. If signs of cholinesterase inhibition appear, atropine is antidotal. 2-PAM also may be used in conjunction with atropine but should not be used alone.	

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

CAUTION: Harmful if swallowed. Causes eye irritation. Avoid contact with eyes, skin and clothing. Avoid breathing dust or spray mist. Wash hands thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical resistant to this product are barrier laminate, butyl rubber or polyvinyl chloride. If you want more options, follow the instructions for category C on an EPA chemical-resistant category selection chart.

Mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Socks plus shoes
- Chemical resistant gloves
- Protective eyewear

In addition, all mixers, loaders, and applicators must wear a NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-210 or a NIOSH-approved respirator with any N, R, P, or HE filter.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, 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. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is highly toxic to birds. 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. 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.

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

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.

No Worker Protection Standard worker re-entry restrictions or worker notification requirements apply when this product is directly injected into agricultural trees.

Do not use this product on food bearing trees or shrubs or on trees or shrubs that will bear food within one year after application.

APPLICATION TO TREES AND ORNAMENTALS

Controls insect pests of trees and ornamentals grown outdoors in commercial landscapes, golf courses, airport grounds, cemeteries, parks, and athletic fields. Acephate Infusible Insecticide can also be used in commercial forestry production, nurseries, and in state, federal, county and local recreational forests. Acephate Infusible Insecticide is a systemic product and will be translocated upward into the plant system. To assure optimum effectiveness, the product must be injected into the root flares.

NOTE: for optimum control, trees should be thoroughly irrigated prior to injection treatment.

GENERAL DIRECTIONS

Measure the diameter of the tree at chest height (54" from ground) in inches. If measuring circumference, divide this number by three to determine Diameter Breast Height (DBH). Refer to tables below to determine appropriate application rate.

Best uptake is in trees in full leaf. Conditions that favor transpiration (i.e., warm soil temperatures >45° F, moist conditions) are optimal for injection uptake. In conifers, high humidity and cool temperatures favor transpiration (i.e., early morning, overcast, rainy days) are optimal for injection uptake.

MICRO-INFUSION MIXING INSTRUCTIONS

1. Use the appropriate number of packets for the tree size you wish to inject. Refer to the Tree Diameter table (Table 1) below for mixing quantities.
2. In a separate chemical resistant container, combine the appropriate amount of water for every 1 package of Acephate Infusible Insecticide. Tear open the packet and empty the contents into the container.
3. Seal the container and gently shake the solution until the Acephate Infusible Insecticide has dissolved and the contents are evenly distributed throughout the mixture. Mix only the desired amount of Acephate Infusible Insecticide that will be used for each application and use immediately after adding water.
4. Dispense 20 milliliters of ready to use solution into each individual M3 injection device. Refer to the Tree Diameter table below to determine the number of injectors to use per tree.

Table 1: Tree Diameter, Dilution Rate, and Number of Injection Sites.

Tree Size (DBH)	# of Acephate Infusible Insecticide Packets	Micro-Infusion mL of water (Total Injection Volume)	Number of M3 injection sites
6 – 11"	1	100	5
12 – 23"	2	200	10
24 – 35"	4	400	20
36 – 47"	6	600	30
48 – 59"	8	800	40
60 – 71"	10	1000	50

MICRO- INFUSION PROCEDURES (Low Volume System)

Root flare injections are recommended—Acephate Infusible Insecticide can only be used with M3 refillable tree infusion devices.

Installation and Application using the Rainbow Treecare Scientific Advancement M3 injector:

1. Examine the tree for the presence of root flares. If flares are not visible, excavate the root collar. Make Infusion sites 5-10 inches below the top of the root flare.
2. Thoroughly brush all dirt from the tree. A dirty root flare will dull the drill bit and increase uptake time.
3. Lay the injectors around the tree to select injection sites (refer to the tree diameter table below for the number of injectors to use). Evenly space the injectors around the root-flares. Using a 11/64" or 3/16" (4.5 to 5 cm) HIGH HELIX drill bit, drill a hole at a downward angle into each selected buttress root flare above the soil line. Drill to a depth of 1 to 1.5 cm (3/8 to 1/2") into healthy xylem tissue.
4. Insert the injector tip into the hole and seat firmly with hand pressure.
5. Close the control valve.
6. Inject 20 ml of the treatment liquid into the M3 injector reservoir through the black duckbill (filling) valve.
7. Inject air into the M3 injector reservoir through the filling valve. Do not inject more than 10 cc of air.
8. Open the control valve just to the point where the liquid starts to flow into the tree.
9. Check for leaks. If leaks are found close the valve, seat firmly into the tree and re-open the valve. If leaks persist the problem may be too shallow of a hole, close the valve, remove the injector and re-drill to a deeper depth.

6/10

10. Uptake usually occurs within minutes. When all of the treatment liquid is out of the injector, a wash solution of water can be injected into the M3 injector and it can be re-pressurized or the M3 injector can be closed and removed from the tree. Wash solutions are not compatible with all formulations. Check for compatibility prior to rinsing the M3 injector into the tree.
11. Remove the M3 injector from the tree and store properly for reuse.

Resinous Conifers

In resinous conifers, such as pine and spruce, start the injection and/or infusion process immediately following the setting of the injection device into the sapwood. A prolonged delay may reduce uptake efficacy on account of resin flow.

Monocots

Drill a pilot hole into the vascular bundle using a 3/16" diameter bit one third the stem diameter (e.g., if the palm is 12"DBH, then drill a 4" deep pilot hole), then drill a wider, shallow hole to set the injection device and complete the application. Only one application site is required. Avoid wounding the meristematic tissue located within the crown of the plant. In general, make applications to the lower trunk region, typically within 12" of the soil.

APPLICATION:

Use Site: Trees, Shrubs, Evergreens, Conifers, Palms & Ornamentals		
For outdoor use in commercial landscapes, state, national, and private wooded and forested areas, seed orchards, tree plantations, parks, and golf courses.		
Pest	DBH	Rate
Adelgids (including Hemlock Woolly Adelgid)	6 - 11"	75 - 100 ml
Aphids	12 - 23"	100 - 200 ml
Bagworms	24 - 35"	200 - 400 ml
Birch Leafminer	36 - 47"	400 - 600 ml
Boxelder Bug	48 - 59"	600 - 800 ml
Browntail moth	60 - 71"	800 - 1000 ml
Budworms		
Cankerworms (Spring and Fall)		
Carpenterworm		
Casebearer		
Clear Wing Borers		
Cone worms		
Cottonwood Twig Borer		
Eastern Oak Looper		
Eastern Tent Caterpillar		
Elm Spanworm		
Fall Cankerworm		
Fall Webworm		
Flatheaded Borers (Including Bronze Birch and Emerald Ash Borers)		
Gall Midges		
Gypsy Moth (larvae)		
Japanese Beetle		
Lace bugs		
Leaf Beetles (larvae) (Including Elm Leaf and Willow Leaf Beetle)		
Leafhoppers		
Leafminers		

7/10

Leafrollers Linden Looper Longhorned Borers (Including Eucalyptus and Red Oak Longhorned Borers) Mealybug Nantucket Pine Tip Moth (larvae) Oakworms Pine Cone Worm Pine Needle Miners Pine Tip Moth Plant Bugs Poplar Tentmaker Root Weevil (adults) (Including Black Vine Weevil) Roundheaded Borers Royal Palm Bugs Sawfly (larvae) Scales (crawlers) Spider mites Spring Cankerworm Tent Caterpillar Thrips Tussock Moth (larvae) Variable Oakleaf Caterpillar Walnut Caterpillar Webworms Winter Moth White Flies White Pine Weevil Whitemarked Tussock Moth Yellownecked Caterpillar Zimmerman Pine Moths	
---	--

Use Site: Recommended for use under USDA Supervision Only			
Crop	Pest	DBH	Rate
Albizzia, Ash, Birch, Boxelder, Buckeye, Elm, European Mountain Ash, Horsechestnut, London Plane Tree, Maple, Poplar, Sycamore, Willow	Asian Longhorned Beetle	6 – 11"	75 – 100 ml
		12 – 23"	100 – 200 ml
		24 – 35"	200 – 400 ml
		36 – 47"	400 – 600 ml
Hardwood and Non-bearing Fruit Trees	Citrus Longhorned Beetle	48 – 59"	600 – 800 ml
		60 – 71"	800 – 1000 ml

NOTES AND RESTRICTIONS

- Apply only to established plants that are actively growing.
- Make treatments when signs of insects first appear.
- Do not use this product on food bearing trees or shrubs or on trees or shrubs that will bear food within one year after application.

8/10

- Keep away from children.
- Keep away from heat and open flames.
- Do not treat trees that are moisture stressed or suffering from herbicide damage.
- Do not inject trees within two weeks of any other spray or chemical treatment.
- For agricultural and commercial use only. Not for use or storage around the home.
- Only for use with the tree injection systems specified on the label.
- Do not leave injection devices unattended. Do not leave empty injection devices on trees. Do not stored unused mix solution.

STORAGE AND DISPOSAL

Storage: Keep product in original container. Store product in a cool dry place. Do not contaminate food or feedstuffs. Do not store or transport near feed or food. In spill or leak incidents, keep unauthorized people away. You may contact CHEMTREC at 800-424-9300 for decontamination procedures or any other assistance that may be necessary.

Pesticide Disposal: Wastes resulting from the use of this product should be disposed of on according to the Directions for Use, i.e. used as directed in the injection equipment.

Container Disposal: Dispose of empty containers in a sanitary landfill or if approved by State and Local authorities.

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. To the extent consistent with applicable law, 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. This warranty does not extend to the use of the product contrary to label instructions,, and Buyer and User assume the risk of any such use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, RAINBOW TREECARE MAKES NO WARRANTIES OR MERCHANABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the fullest extent permitted by law, RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT**

9/10

THE ELECTION OF RAINBOW TREECARE OR SELLER, THE REPLACEMENT OF THE PRODUCT.

RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS and Seller offer this product, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS.

All TM property of RAINBOW Treecare Scientific Advancements.
© Copyright 2007 RAINBOW Treecare Scientific Advancements.
The RAINBOW logo is a trademark of RAINBOW Treecare Scientific Advancements.

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.

SCIENTIFIC ADVANCEMENTS



10/10

[Label for Individual Foil Packets]

Acephate Infusible Insecticide

For the control of insect pests of trees and landscape ornamentals in exterior plantscapes, nurseries, tree farms, and forests.

Active Ingredient	
Acephate (O,S-Dimethyl acetylphosphoramidothioate).....	97.4%
Other Ingredients.....	2.6%
<hr/> Total	<hr/> 100.0%

EPA Reg. No. 74779- EPA Est. No.

**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 Container for Additional Precautionary Statements, First Aid and Directions for Use

Net Contents: 15 g (0.03 lb)

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