

74578-2

3-30-2007

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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

MAR 30 2007

Mr. Jeff Jones
Agent
Arborjet, Inc.
c/o Delta Analytical Corp.
12501 Prosperity Dr. Suite 160
Silver Spring, MD 20904

RE: Notification of Addition Descriptive Phrases on Label, Change of Address and Hotline Information
EPA Registration Number: 74578-2
Date of Submission: March 16, 2007

Dear Mr. Jones:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated March 16, 2007, for the product ACE-Jet. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the actions requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Joyce Edwards of my staff at 703-308-5479.

Sincerely,

A handwritten signature in black ink, appearing to be "Linda Arrington".

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs

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United States
Environmental Protection Agency
 Washington, DC 20460

Registration
 Amendment
 Other

OPP Identifier Number
306474

Application for Pesticide - Section I

1. Company/Product Number 74578-2	2. EPA Product Manager Marilyn Mautz	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) ARBORJET, INC. / ACE-jet	PM# Insecticide-Rodenticide Branch	
5. Name and Address of Applicant (Include ZIP Code) ARBORJET, INC. c/o Delta Analytical Corp. 12510 Prosperity Dr. Suite 160 Silver Spring, MD 20904 <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

Amendment - Explain below
 Resubmission in response to Agency letter dated _____
 Notification - Explain below.

Final printed labels in response to Agency letter dated _____
 "Me Too" Application.
 Other - explain below.

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Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of additional descriptive phrases on label, change of address and hotline information

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 USC Sec. 1001 to willfully make any false statement to 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:

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	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted.		If "Yes," Unit Package wgt. No. per container	If "Yes," Unit Package wgt. No. per container

3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) of Retail Container	5. Location of Label Direction <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"/> Paper glued <input type="checkbox"/> Stenciled		<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 Jeff Jones	Title Agent for Arborjet Inc.	Telephone No. (Include Area Code) 301-680-7971
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Certification

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

2. Signature 	3. Title Agent for Arborjet Inc.	6. Date Application Received (Stamped)
4. Typed Name Jeff Jones	5. Date March 16, 2007	

NOTIFICATION

MAR 30 2007



ACE-jet

[Systemic Insecticide][Arboriculture in Motion][Diverse Pest Control]
[Systemic Insecticide for Micro-Infusion]

Micro-Injectable and Micro-Infusible Insecticide for use with the *Arborjet Injection Systems* in the Management of Specific Insect Pests of Trees & Landscape Ornamentals including Conifers, Christmas Tree & Deciduous Tree Farms, Seed Orchards and Plantations, and Forest Trees.

Active Ingredient:

Acephate	
[O,S-DIMETHYL ACETYL PHOSPHORAMIDOTHIOATE].....	97.4%
Other Ingredients.....	2.6%
Total.....	100.0%

EPA Reg. No. 74578-2
EPA Est. No.

**STOP—read the entire label before use.
KEEP OUT OF REACH OF CHILDREN**

CAUTION

ADVISO:

Precaucion al usuario: Si usted no puede leer o entender ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

To the user: If you cannot read or understand English, do not use this product until the label has been fully explained to you.

Manufactured for: ARBORJET, Inc.
99 Blueberry Hill Road
Woburn, MA 01801
(781) 721-0795

Net Contents: 20pc. 15gram packets

Precautionary Statements

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 polyethylene and polyvinyl chloride.

Mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Socks and shoes
- Chemical resistant gloves for all mixers and loaders and for applicators using hand-held application equipment
- Protective eyewear

In addition, all mixers and loaders and all applicators must wear a NIOSH approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C 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 REQUIREMENTS

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should 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.

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 5 minutes, then continue rinsing eye. • Call a Poison Control Center or doctor for further 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 further 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 further treatment advice.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National Poison Control Hotline at 1-800-222-1222, 24 hours a day, 7 days a week.</p>	
<p>Note to Physician: Organophosphates are cholinesterase inhibitors. 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.</p>	

ENVIRONMENTAL HAZARDS:

This pesticide is highly toxic to birds. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the high water mark. Do not contaminate water when disposing of equipment wash water.

PHYSICAL OR CHEMICAL HAZARDS:

Do not use or store near heat or open flame.

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DIRECTIONS FOR USE

It is in 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 indirectly through drift. Only protected handlers may be in the area during application. For requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

For agricultural and commercial use only. Not for use or storage around the home.

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 greenhouse, 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). The requirements in this box only apply to uses of this product 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.

IMPORTANT: Read the entire label before use. Failure to follow label directions may result in poor control or plant injury. Failure to follow label directions may cause injury to people, animals and environment. The buyer accepts and understands that failure to follow label directions is the responsibility of the buyer.

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 ORNAMENTALS

ACE-jet is for use on trees & landscape ornamentals including conifers, Christmas tree & deciduous tree farms and plantations. *ACE-jet* is an infusible insecticide formulated to translocate in the plant vascular system from the microinjection site(s). To assure optimum effectiveness, this product must be placed into the active sapwood.

General Directions

ACE-jet is for use ONLY with the tree injection systems specified on this label which include the specified VIPER and STINGER technologies.

Measure the tree **diameter** at chest height (54" from ground) in inches to find the Diameter at Breast Height (DBH). If measuring circumference, divide this number by three to determine Diameter at Breast Height (DBH).

Make applications to actively growing trees in full leaf. Conditions that favor transpiration (i.e., sunny, breezy, low humidity) are optimal for injection uptake. Treat conifers in the early morning during hot, dry periods for optimum uptake.

Arborjet Micro-injection and Micro-infusion Procedures

Inject into the trunk tissue immediately above the trunk flare, or alternatively inject into tree roots exposing them by shallow excavation. After drilling a small reservoir in the sapwood, the Arborplug™ will be set in the first few xylem elements (i.e., active sapwood).

Microinject circumferentially around the tree, injecting no closer than 6.0 inches apart. Refer to Tree Diameter Table below to determine the optimum number of injection sites to apply. DO NOT microinject trees stressed by drought. Irrigate trees prior to treatment for optimal product uptake.

Basic Arborjet VIPER Procedure:

Drill through the bark then 5/8" into the sapwood using the appropriate sized drill bit. Brad point bits are recommended, and all drill bits should be clean and sharp. Then set the Arborplug™ into place with the set tool and mallet. For recommended Arborplug™ sizes on specific sized trees refer to the Tree Diameter Table below. Using the VIPER needle, pierce the internal septum to start the injection or infusion process. Remove VIPER needle upon the completion of the infusion process.

Tree Diameter, Range of Trunk Application Sites and Arborplug™ Size Selection.

Tree DBH	Number of Application Sites (Tree I.V.)	Number of Application Sites (Air/Hydraulic or Hand-operated)	Size of Arborplug™ (Hardwoods)	Size of Arborplug™ (Conifers)
<12"	4	4	#2, #3	#3
12"	4	6	#2, #3	#4
16"	4	8	#3	#4
20"	5	10	#3	#4
24"	6	12	#3	#4
28"	7	14	#3	#4
32"	8	16	#3	#4
36"	9	18	#3	#4
>36"	Use DBH/4	Use DBH/2	#3	#4

Alternative Arborjet STINGER Procedure:

Alternatively set the #2 (13/64" drill bit) STINGER (removable injector tips) by gently tapping the injector tip into predrilled hole with a mallet. Remove STINGERS upon completion of infusion process.

Resinous Conifers

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

Ornamental Monocots

In palm, drill a pilot hole into the vascular bundle using a 1/8" diameter bit one-third into the palm, then drill a second, shallow hole (5/8") to set an Arborplug™, use the VIPER needle to complete the application. Only one site is needed. Make applications into the stem, below the primary meristem. 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.

Mixing Instructions

Refer to the table below for mixing quantities. Use the appropriate number of packets for the tree size you wish to inject. Empty the contents of the packet into the injection canister. Add the appropriate amount of water to the canister. Use distilled water or acidic to neutral water (pH 5.5-7.0). Close the canister by screwing on the lid. Next swirl the contents THOROUGHLY until all the ACE-jet is dissolved. Now you are ready to pressurize the canister for the injection process.

The number of 15 gram ACE-jet packets and the amount of water for Total Injection Volume (TIV) for each tree size class.

Tree Size Class	# ACE-jet packets	mL of water (TIV)
6-11"	1	100
12-23"	2	200
24-35"	4	400
36-47"	6	600
48-59"	8	800
60-71"	10	1000

Arborjet Systems

Air/Hydraulic Injection Application

Prepare the injection solution following the mixing instructions above. To inject, set the primary regulator to 75 PSI, charge the 10mL Dose-Sizer by pulling back on Dose-Sizer knob after priming, and apply the specified dose equally into the preset Arborplug™ ports.

Hand-Operated Injection Application

Prepare the injection solution following the mixing instructions above. Close and hand pump or pressurize to between 15 and 25PSI. Charge the 10mL Dose-Sizer by pulling back on Dose-Sizer knob, then apply specified dose as per example, above.

Tree I.V. Infusion Application

Prepare the injection solution following the mixing instructions above. Close and pump to blow off (35-45PSI). Insert the VIPER needle into the Arborplug™ port to begin the infusion. Remove when application is complete.

Clean-up

IMPORTANT! It is critical to rinse the Arborjet Injection System thoroughly after use. Use **CLEAN-jet** or isopropyl alcohol. Residues left in the device may gum the internal components.

Compatibility

ACE-jet is compatible with all Arborjet fertilizers including the *MICRO-jet* infusible series. However the physical compatibility of *ACE-jet* should be tested before use with other products.

To determine the physical compatibility of *ACE-jet* with other products, use a jar test as described below.

1. Using a pint jar, add the proportionate amounts of the two products to 1 pint of water.
2. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be remixed, it is physically compatible. If precipitates form, the combination is incompatible.
3. Once compatibility has been proven acceptable, use the same procedure for adding required ingredients to the injection canister.

User must comply with all applicable directions, restrictions and precautions on the EPA-registered label when using any pesticide in tank mix combinations. The most restrictive labeling applies when using a tank mix.

NOTE: The safety of all potential tank mixes on all trees listed on this label may not have been tested. Before applying any tank mixture not specifically recommended on this label, the safety to the target tree should be tested. It is not advisable to apply pesticides via trunk injection or infusion applications that do not completely dissolve or disperse in solution.

Application of liquid flowables, suspension concentrates, or dispersible granules that do not completely dissolve is NOT recommended.

When to Treat:

Apply when signs of insects first appear.

Use in Trees, Ornamentals, Forests, Seed Orchards and Tree Plantations against certain Lepidopterous larvae, Homopteran, Dipteran, Hemipteran, Hymenopteran and Thysanopteran Insects				
CROP	PEST	DBH	DOSE	
Trees, Shrubs, Evergreens, Conifers, Christmas Tree Plantations, & Palms.	Chewing Insects including Lepidopterous larvae:			
	Bagworm (<i>Thyridopteryx ephemeraeformis</i>)	6-11"	75-100mL	
	Browntail Moth	12-23"	100-200mL	
	Budworms	24-35"	200-400mL	
	Cankerworms (Spring and Fall)	36-47"	400-600mL	
	Carpenterworm (<i>Prionoxystus robiniae</i>)	48-59"	600-800mL	
	Casebearer	60-71"	800-1000mL	
	Clear Wing Borers(<i>Parathrene dollii</i> and <i>P. tricincta</i>)			
	In Forest Areas, including non-urban forests, tree plantations, and seed orchards, parks, rural shelter belts, rangeland trees, and woodland trees including conifers.	Cottonwood Twig Borer (<i>Gypsonoma hainbadiana</i>)		
		Eastern Oak Looper (<i>Phigalia titea</i>)		
Eastern Tent Caterpillar (<i>Malscosoma americanum</i>)				
Elm Spanworm (<i>Ennomos subsignarius</i>)				
Fall Cankerworm (<i>Alsophila pometaria</i>)				
Fall Webworm (<i>Hyphantria cunea</i>)				
Gypsy Moth, (<i>Lymantria dispar</i>)				
Leafrollers				
Linden Looper (<i>Erannis tiliaria</i>),				
Nantucket Pine Tip Moth (larvae)				
Oakworms (<i>Anisota senatoria</i> , <i>A. virginensis</i> , and <i>A. stigma</i>),				
Pine Cone Worm (<i>Dioryctria</i> spp.)				
Pine Needle Miners (including Ponderosa Pine)				
Pine Tip Moth (<i>Rhyacionia</i> spp.)				
Poplar Tentmaker (<i>Clostera inclusa</i>)				
Spring Cankerworm (<i>Paleacrita vernata</i>)				
Forest Tent Caterpillar, (<i>Malocosoma disstria</i>)				
Tussock Moth				
Variable Oakleaf Caterpillar (<i>Heterocampa manteo</i>)				
Walnut Caterpillar (<i>Datana integerrima</i>)				
Winter Moth (<i>Operophtera brumata</i>)				
Whitemarked Tussock Moth (<i>Hemerocampa leucostigma</i>),				
Yellownecked Caterpillar (<i>Datana ministra</i>)				
Zimmerman Pine Moths				

	<p>Chewing and Mining insects: Leafminers Gall Midges Sawflies (larvae) Birch Leafminer</p> <p>Piercing-Sucking Insects and Mites: Adelgids (including Hemlock Woolly Adelgid) Aphids Leafhoppers Mealybug Scale Insects White flies Lacebugs Plant Bugs (Lygus) Royal Palm Bugs Boxelder Bug (<i>Leptocoris trivittatus</i>) Thrips Spider Mites</p>	
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Use in Trees, Ornamentals, Forests, Seed Orchards and Tree Plantations against certain Coleopteran Pests including Cambial and Wood-boring Insects			
CROP	PEST	DBH	RATE
Trees, Shrubs, Evergreens, Conifers, Christmas Tree Plantations, & Palms. In Forest Areas, including non-urban forests, tree plantations, and seed orchards, parks, rural shelter belts, rangeland trees, and woodland trees including conifers	Coleoptera:		
	Buprestid Borers (including	6-11"	75-100mL
	Bronze Birch Borer, and	12-23"	100-200mL
	Emerald Ash Borer)	24-35"	200-400mL
	Flatheaded Borers	36-47"	400-600mL
	Elm Leaf Beetle (larvae)	48-59"	600-800mL
	Japanese Beetle	60-71"	800-1000mL
	Leaf Beetles (larvae)		
	(including elm and willow leaf beetles)		
	Longhorned Borers (including Eucalyptus borer and Red Oak Borer)		
Root Weevil Adults (including Black Vine Weevil)			
White Pine Weevil			

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Recommended for use under USDA Supervision Only:

Crop	Use	Tree DBH	Rate
Host trees including Elm, Maple, Birch, Willow, Box Elder, Horsechestnut, Buckeye, European Mountain Ash, Ash, Poplar, Albizzia, London Plane, and Sycamore	Asian Longhorned Beetle	6-11"	75-100mL
		12-23"	100-200mL
		24-35"	200-400mL
		36-47"	400-600mL
		48-59"	600-800mL
Hardwood and Non-bearing Fruit Trees	Citrus Longhorned Beetle	60-71"	800-1000mL

RESTRICTIONS

Keep away from children

Keep away from heat and open flame.

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 soil chemical treatment.

STORAGE AND DISPOSAL

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

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

CONTAINER DISPOSAL: Completely empty contents of packets into injection equipment. Dispose of empty packets in a sanitary landfill or by incineration if approved by State and Local authorities.

NOTICE OF WARRANTY

ARBORJET, Inc. makes no warranty of fitness of this product for any other purpose, beyond its uses under normal conditions in keeping with the statements made on this label.



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March 16, 2007

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
Environmental Protection Agency
Ariel Rios Building
1200 Pennsylvania Avenue, N.W.
Washington DC 20460

Attn: Marilyn Mautz
Insecticide-Rodenticide Branch

RE: Notification of addition of descriptive phrases, correction of address on label and updated hotline information

Product name: ACE-jet
EPA Reg. No.: 74578-2
Company: Arborjet, Inc.

Dear Ms. Mautz:

On behalf of Arborjet, Inc., I am submitting a notification per PR Notice 98-10 for the product ACE-jet. This notification includes the addition of descriptive phrases on page 1 of the label, correction of the address as previously notified and updating the hotline information. The following documents are enclosed in support of this Notification:

- Application for Pesticide (EPA Form 8570-1)
- 1 copy of label (plus one copy of label with changes highlighted)
- Postcard to advise of acceptance of this Notification

If you have questions regarding this submission or require additional information, please contact me at jjones@delta-ac.com or (301) 680-7971.

Sincerely,

Jeff Jones, Agent
Arborjet, Inc.

Enclosures

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