

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

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

December 16, 2015

Olav Messerschmidt Registration Agent for Bioforest Technologies, Inc. c/o OMC Ag Consulting, Inc 828 Tanglewood Lane East Lansing, MI 48823

Subject: Labeling Notification per Pesticide Registration Notice (PRN) 98-10 – Addition of Two

New Pests (European Elm Scale and Red Elm Bark Weevil) and Additional Marketing

Statements

Product Name: TreeAzin Systemic Insecticide

EPA Registration Number: 82996-1 Application Date: 24 July 2015 OPP Decision Number: 507307

## Dear Mr. Messerschmidt:

The U.S. Environmental Protection Agency (EPA) is in receipt of your application for notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Biopesticides and Pollution Prevention Division (BPPD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The labeling submitted with this application has been stamped "Notification" and will be placed in our records. You must submit one (1) copy of the final printed labeling with the modifications.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Page 2 of 2 EPA Reg. No. 82996-1 OPP Decision No. 507307

If you have any questions, please contact Cody Kendrick of my team by phone at (703) 347-0468 or via email at <a href="mailto:kendrick.cody@epa.gov">kendrick.cody@epa.gov</a>.

Sincerely,

Andrew C. Bryceland, Team Leader Biochemical Pesticides Branch

Biopesticides and Pollution

Prevention Division (7511P)

Office of Pesticide Programs

Enclosure

# TreeAzin<sup>TM</sup> Systemic Insecticide (EPA Reg. No. 82996 – 1)

## MASTER LABEL Sublabel A is for Commercial Use Sublabel B is for Residential Use

## NOTIFICATION

82996-1

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

## TreeAzin<sup>TM</sup> Systemic Insecticide

12/16/2015

A solution containing azadirachtin for tree injections for use with tree injection devices to manage specific insect pests of forests, trees and landscape ornamentals in woodlot, urban and residential environments.

## **ACTIVE INGREDIENT:**

# KEEP OUT OF REACH OF CHILDREN WARNING

FIRST AID			
If in eyes:	<ul> <li>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.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>		
If on skin or clothing:	<ul> <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>		
If swallowed:	<ul> <li>Call a poison control center or doctor immediately 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 by a poison control center or doctor.</li> <li>Do not give anything to an unconscious person.</li> </ul>		

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Call your poison control center at 1-800-222-1222. For information on product, usage, etc., call 1-888-236-7378, Monday through Friday, 9 a.m. to 5 p.m. (Eastern time).

Net Contents: 20 ml, 1 liter (1.06 quart), or 2 liter (2.12 quarts)

EPA Reg. No. 82996 – 1 EPA Est. XXXX-Y

[Batch Number]

Manufactured by:
BioForest Technologies Inc.
105 Bruce Street
Sault Ste. Marie, ON P6A 2X6 Canada

<sup>\*</sup> Contains 0.42 lbs. of Azadirachtin A + B per gallon (50 gms. per liter)

## TreeAzin<sup>TM</sup> Systemic Insecticide (EPA Reg. No. 82996 – 1) Sublabel A: Commercial Use

## TreeAzin<sup>TM</sup> Systemic Insecticide For Commercial Use

A solution containing azadirachtin for tree injections for use with tree injection devices to manage specific insect pests of forests, trees and landscape ornamentals in woodlot, urban and residential environments.

## FOR ORGANIC PRODUCTION

[add OMRI logo]

ACTIVE INGREDIENT:	
Azadirachtin A + Azadirachtin B*	5%
OTHER INGREDIENTS	<u>95%</u>
TOTAL	100%

<sup>\*</sup> Contains 0.42 lbs. of Azadirachtin A + B per gallon (50 gms. per liter)

# KEEP OUT OF REACH OF CHILDREN WARNING

FIRST AID			
If in eyes:	<ul> <li>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.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>		
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## [Optional marketing claims, may be used on any panel]

- Pictures illustrating how to determine a trees circumference at breast height and performing the injection (i.e. drilling the hole at the proper angle, depth of drill hole and nozzle and canister placement in the tree etc.) may be added.
- Provides two (2) years protection against emerald ash borer.
- Injected directly into the tree for minimal personal, animal and environmental exposure..
- Rapid uptake and translocation of TreeAzin Systemic Insecticide after being injected into trees.
- Effective control of insect pests that consume tree leaves (e.g. gypsy moth, tent caterpillars, leaf miners), needles (budworms, sawflies), cambial tissue (e.g. Emerald ash borer) and sucking and piercing insects (e.g. Hemlock woolly adelgid).
- Trees saving trees
- Plant based
- Plant extract
- Biopesticide

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Warning: Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear such as goggles, face shield, or safety glasses. Harmful if swallowed or absorbed through skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

## **Personal Protective Equipment (PPE):** Applicators and other handlers must wear:

- Long sleeved shirt and pants
- Shoes plus socks
- Protective eyewear
- Chemical resistant gloves

Follow manufacturer's instructions for cleaning and 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**

### User should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if product gets inside. Then wash thoroughly and put on clean clothing.

### PHYSICAL AND CHEMICAL HAZARDS

**Extremely flammable**. Contents under pressure. Keep away from fire, sparks, and heated surfaces. Do not puncture or incinerate container. Exposure to temperatures above 130 degrees Fahrenheit may cause bursting.

## **ENVIRONMENTAL HAZARDS**

Do not apply directly to water, or 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 washwater or rinsate.

## **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.

Keep children and pets out of the treated area until sprays have dried.

### **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. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

**IMPORTANT:** Before using TreeAzin, read this label carefully, as well as the instructions for the tree injection device used to inject TreeAzin. Failure to follow label directions and instructions may lead to unnecessary exposure to the applicator, bystanders and the environment.

This formulation is designed for use with the EcoJect® System for tree injections or with other manufacturers' tree injection devices that meet the label and dosage requirements. Follow the manufacturer's directions for use.

Apply TreeAzin undiluted. TreeAzin is a systemic insecticide. Therefore, to ensure optimum efficacy, it is necessary to inject TreeAzin into the active sapwood.

Injection times will vary by tree species, weather conditions, time of year and time of day, but injection times are improved when trees are maintained and watered.

TreeAzin is not to be applied to trees that will produce food.

## **Determining Dose**

- Using a diameter tape or calipers, determine the tree's diameter in inches at breast height (dbh) (4.5 ft. above ground).
- Multiply the tree's diameter in inches at breast height (dbh) by appropriate dosage (see Application Rates in Trees and Ornamentals chart) to calculate the total dose of TreeAzin for the tree.

## **Example: Preventative Treatment for Emerald Ash Borer**

- 1. The tree diameter (dbh) is 16 in.
- 2. Multiply: 16 in. x 5 ml/in. = 80 ml of TreeAzin required

## The Injection Hole

- Using a power drill and a 15/64 in. drill bit for the EcoJect® System (for other injection devices, refer to user instructions for drill bit size), drill a hole at a 20 to 45 degree downward angle into the tree approximately 6-12 in. above ground (Brad point bits are recommended).
- The hole should extend through the bark and be approximately ½ -1 in. deep into the sapwood of the tree.
- Subsequent injection holes should spiral slightly upward around the tree every 5-6 in. so the final hole is no more than 11 in. above the ground.

## **Application Rates in Trees and Ornamentals**

Pests Controlled	Dosage			
Emerald Ash Borer	Within a quarantined county, a state quarantine generally-infested area or less than 15 mi. from a known EAB infestation a least than 15 mi. from a known EAB infestation a least than 15 mi. from a known EAB infestation a least than 15 mi. from a known EAB infestation a least than 15 mi. from a			
	a known EAB infestation    EAB symptoms or No EAB symptoms   < 30% canopy thinning and/or dieback   12.5 ml/in. dbh			
	Suspicious EAB symptoms  In a county where EAB  In a county where EAB  Suspicious A canopy thinning and/or dieback  12.5 ml/in. dbh  12.5 ml/in. dbh			
	has not been detected and greater than 15 mi. from a known EAB infestation			
	* Tree condition may compromise treatment effectiveness			
Gypsy Moth Tent Caterpillars Leaf miners Spruce Budworm Jack Pine Budworm Hemlock Woolly Adelgid Elm Leaf Beetle European Elm Scale Red Elm Bark Weevil	8 ml per in. dbh			
Sawflies	5 ml per in. dbh			

Note: dbh is the diameter of the tree in inches at breast height

### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in a cool, dry place and in such a manner to prevent cross contamination with other pesticides, fertilizers, food and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Check any plastics for compatibility. Keep container tightly sealed when not in use. Do not store below 40 degrees Fahrenheit or above 75 degrees Fahrenheit. On a hot day, temperatures exceeding 100 degrees Fahrenheit are common in vehicles, especially when windows are closed. Do not expose to high temperatures for more than short periods of time. These actions may result in some degradation of the product. Keep bottles of TreeAzin out of direct sunlight.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

## **Container Handling:**

• **Plastic Containers:** Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill.

## **Conditions of Sale and Warranty**

The directions for use of this product are believed to be adequate and 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 due to such factors as weather conditions, presence or absence of other materials, or the manner of use or application, all of which are beyond the control of TreeAzin, the manufacturer, or the seller.

To the extent consistent with applicable law, BioForest Technologies 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.

## TreeAzin<sup>TM</sup> Systemic Insecticide (EPA Reg. No. 82996 – 1) Sublabel B: Residential Use

## TreeAzin<sup>TM</sup> Systemic Insecticide

A solution containing azadirachtin for tree injections for use with tree injection devices to manage specific insect pests of forests, trees and landscape ornamentals in woodlot, urban and residential environments.

## For Organic Gardening

[add OMRI logo]

ACTIVE INGREDIENT:	
Azadirachtin A + Azadirachtin B*	5%
OTHER INGREDIENTS	95%
TOTAL	100%
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Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Call your poison control center at 1-800-222-1222. For information on product, usage, etc., call 1-888-236-7378, Monday through Friday, 9 a.m. to 5 p.m. (Eastern time).

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- Provides two (2) years protection against emerald ash borer.
- Injected directly into the tree for minimal personal, animal and environmental exposure..
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- Effective control of insect pests that consume tree leaves (e.g. gypsy moth, tent caterpillars, leaf miners), needles (budworms, sawflies), cambial tissue (e.g. Emerald ash borer) and sucking and piercing insects (e.g. Hemlock woolly adelgid).
- Trees saving trees
- Plant based
- Plant extract
- Biopesticide

### PRECAUTIONARY STATEMENTS

### **Hazards to Humans and Domestic Animals**

Warning: Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear such as goggles, face shield, or safety glasses. Harmful if swallowed or absorbed through skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

### PHYSICAL AND CHEMICAL HAZARDS

**Extremely flammable**. Contents under pressure. Keep away from fire, sparks, and heated surfaces. Do not puncture or incinerate container. Exposure to temperatures above 130 degrees Fahrenheit may cause bursting.

## **ENVIRONMENTAL HAZARDS**

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters.

## **DIRECTIONS FOR USE**

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

**IMPORTANT:** Please read the entire label and instructions for the TreeAzin Tree Protection System carefully before performing tree injections. Failure to follow label directions and instructions may lead to unnecessary exposure to the applicator, bystanders and the environment.

## TreeAzin Tree Protection System: Instructions for Use

TreeAzin is a systemic insecticide. Therefore, to ensure optimum efficacy, it is necessary to inject TreeAzin into the active sapwood.

- Use a tape measure to determine the tree's circumference to the nearest inch at breast height (4½ feet above ground).
- Refer to the Application Rates in Trees and Ornamentals chart for the appropriate dosage
- Each TreeAzin Tree Protection System canister holds 20 ml of TreeAzin. The correct number of canisters is based on the pest to be treated and the circumference of the tree at 4½ feet above ground.

Injection times will vary by tree species, weather conditions, time of year and time of day, but injection times are improved when trees are maintained and watered.

## **Application Rates in Trees and Ornamentals**

			Gypsy moth, Tent caterpillars,	
Tree circumference in inches	Emerald Ash	*Emerald Ash Borer	Leaf miners, Hemlock woolly	
	Borer	Symptomatic or	adelgid, Spruce Budworm, Jack	Sawflies
	Preventative	Attacked Tree	Pine Budworm, Elm Leaf Beetle,	Sawines
	Treatment	Treatment	European Elm Scale, Red Elm	
			Bark Weevil	
	Number of canisters (20ml/canister) to be used in Trees and Ornamentals			
9	2	2	2	2
13	2	3	2	2

16	2	3	2	2
19	2	4	2	2
22	2	4	3	2
25	2	5	3	
28	2	6	4	2
31	3	6	4	2 2 3
35	3	7	4	3
38	3	8	5	3 3
41	3	8	5	3
44	4	9	6	4
47	4	9	6	4
50	4	10	6	4
53	4	11	7	4
57	5	11	7	5
60	5	12	8	5 5 5 5
63	5	13	8	5
66	5	13	8	
69	6	14	9	6
72	6	14	9	6
75	6	15	10	6
79	6	16	10	6
82	7	16	10	7
85	7	17	11	7
88	7	18	11	7
91	7	18	12	7
94	8	19	12	8
97	8	19	12	8
100	8	20	13	8
104	8	21	13	8
107	9	21	14	9
110	9	22	14	9
113	9	23	14	9
116	9	23	15	9
119	10	24	15	10
122	10	24	16	10
126	10	25	16	10
157	13	31	20	13
188	15	38	24	15

<sup>\*</sup>Emerald Ash Borer - Signs and Symptoms of Symptomatic or Attacked trees – A sign is physical damage to a tree, such as a gallery, a "D" shaped hole, or a feeding notch in the leaf, resulting from attack. A symptom is a tree's response to attack and includes premature yellowing of foliage, dead branches, thinning crowns, or bark cracks.

The effectiveness of TreeAzin in controlling Emerald ash borer may be reduced when an ash tree has greater than 30% dead braches or thinning crown.

## The Injection Hole

- Using a power drill and a 3/16 in. drill bit, drill a hole at a 20 to 45 degree downward angle into the tree approximately 6-12 inches above ground. To facilitate the effective distribution of TreeAzin Systemic Insecticide into the vascular tissue of the tree, use a new, sharp drill bit.
- The hole should extend through the bark and be approximately ½ -1 inches deep into the sapwood of the tree.
- Subsequent injection holes should spiral slightly upward around the tree every 5-6 in. so the final hole is no more than 11 in. above the ground.

## The Injection

- Insert the narrow end of the TreeAzin Tree Protection System canister nozzle into the predrilled hole and gently tap into place using a rubber mallet.
- Place the canister gently on the nozzle and screw the canister on the nozzle in a clockwise direction until the nozzle and canister are firmly mated.
- Gently tap the mated nozzle and canister into the drilled hole to ensure the canister is seated properly in the drilled hole.
- Grip the canister firmly and then turn the top cap clockwise ½ turn.
- The canister will begin to discharge into the injection hole.
- Immediately check the area around the nozzle for signs of leakage:
  - If leakage is observed, carefully hold the canister and tap the canister further into the pre-drilled hole.
  - Repeat if leakage is still observed.
- Repeat the procedure for the rest of the injection sites.
- When the injection is completed, wait for 1-2 minutes before removing the canister and nozzle. This allows the injection site to de-pressurize and avoids pesticide spillage.

Carefully read the TreeAzin Tree Protection System "Use Directions" for further information about the System.

### STORAGE and DISPOSAL

## Pesticide Storage:

Store in a cool dry place out of reach of children and pets and away from direct sunlight, windows, flames and other sources of heat or ignitions.

Pesticide Disposal, and Container Handling:

Nonrefillable container. Do not reuse or refill this container. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

## **Conditions of Sale and Warranty**

The directions for use of this product are believed to be adequate and 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 due to such factors as weather conditions, presence or absence of other materials, or the manner of use or application, all of which are beyond the control of TreeAzin, the manufacturer, or the seller.

To the extent consistent with applicable law, BioForest Technologies 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.