

02/29/2012

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



FEB 29 2012

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Dave Anderson  
Rainbow Treecare Scientific Advancements  
11571 K-Tel Drive  
Minnetonka, MN 55343

Dear Mr. Anderson:

Subject: Amendment of to add pest: Emerald Ash Borer  
Xytect Tree Injection  
EPA Registration No. 74779-11  
Your Submissions Dated 9/22/2011

The labeling referred to above submitted in connection with the Federal Insecticide, Fungicide and Rodenticide Act, as amended is acceptable provided you make the following changes:

- On page 1, revise the "Net Contents" to read "33.8 fluid ounces (1 Liter)" as based on our phone conversation, it is the only size your product will be marketed in at this time and you must list the U.S. units first.
- On page 3, under "DIRECTIONS," delete the sentence that reads "If measuring the circumference of the tree, divide this number by six (6) to determine the number of injection sites needed" since rates are only provided for trees measured by diameter.

A stamped copy of the labeling is enclosed for your records. Please submit one final printed copy of the labeling before releasing the product for shipment. If you have any questions regarding this label, please contact Autumn Metzger at (703) 305-5314 or metzger.autumn@epa.gov.

Sincerely,

A handwritten signature in cursive script that reads "Venus Eagle".

Venus Eagle  
Product Manager (1)  
Insecticide-Rodenticide Branch  
Registration Division (7505P)



2/6

## Xytect™ Tree Injection

Systemic Insecticide for tree injection.

**ACTIVE INGREDIENT:**

Imidacloprid (110.7 mg/mL)

1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine.....10.0%

**OTHER INGREDIENTS**.....90.0%

**Total**.....100.0%

EPA Reg. No. 74779-11

EPA Est. No. XXXXX-XX-XX

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See additional Precautionary Statement, First Aid and Directions for Use inside booklet.

**STOP** – Read the label before use.

**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.)

**NET CONTENTS:** [8 oz (236 ml)] [1 quart (946 ml)] [1 Liter (33.8 oz)] [1 gallon (3.78 L)] [2.5 gallons (9.46 L)] [5 gallons (18.9 L)] [55 gallons (208 L)]

Distributed By:  
Rainbow Treecare Scientific Advancements  
11571 K-Tel Drive  
Minnetonka, MN 55343  
1-877-272-6747  
[www.treecarescience.com](http://www.treecarescience.com)

**ACCEPTED  
With COMMENTS  
In EPA Letter Dated:  
FEB 29 2012**

**Under the Federal Insecticide, Fungicide  
and Rodenticide Act, As amended, for the  
pesticide Registered under EPA Reg. No:**

74779-11



3/6

<b>FIRST AID</b>	
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor 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 do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</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>
<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.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b> Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For 24 hour medical emergency assistance (human or animal), or chemical emergency assistance (spill, leak or accident). Call CHEMTREC at 1-800-424-9300.	
<b>NOTE TO PHYSICIAN</b> There is not specific antidote available. Treat Patient symptomatically.	

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

**CAUTION:** Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes or clothing. Causes eye irritation. Wash thoroughly with soap and water after handling. Avoid breathing vapors. Remove contaminated clothing and wash before reuse.

**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 C on an EPA chemical resistance category selection chart.

Applicator and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical resistant gloves, such as polyethylene or butyl rubber or neoprene rubber or Viton.
- Protective eyewear

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.

**ENVIRONMENTAL HAZARDS:**

This pesticide is highly toxic to aquatic invertebrates. Do not apply directly to water, or to areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.



4/6

**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 requirement 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 the Worker Protection Standard, 40 CFR 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and the 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.

**RESTRICTIONS**

- Do not inject trees that are less than two inches in diameter.
- Do not harvest or consume fruits or nuts from trees that have been treated within 1 year (365 days).

**APPLICATION EQUIPMENT**

Xytect™ Tree Injection is an insecticide for use with tree injection devices that meet the label and dose requirements. Test for compatibility with the injector and its liquid contact components before regular use. Clean the interior of the injector with a solvent cleaner to remove any residual liquid from prior use. Disinfect injector tips between tree injection use. Use tree injection devices with care and in a safe manner, in addition to following manufacturer's directions and precautions.

**DIRECTIONS**

Follow manufacturer's directions and precautions in the use of pressurized tree injector systems. Measure the tree at breast height in inches (4.5 feet above the ground). If measuring the circumference of the tree, divide this number by six (6) to determine the number of injection sites needed. If measuring the diameter of the tree (DBH), divide this number by two (2) to determine the number of injection sites needed. Apply the injector sites into the active sapwood, evenly spaced around the tree at the root buttress region avoiding the root valleys. Follow good injection practices.

Use the following rates as a function of tree diameter at breast height (DBH):

- 1 ml per inch DBH for trees 2 to 10 inches DBH
- 1.5 ml per inch DBH for trees 10 to 36 inches DBH
- 2 ml per inch DBH for trees 36 inches DBH and above

For heavier infestation and/or more resistant insects, use 1.5 ml or 2 ml rates on trees having a DBH of 2 inches and above.

Determine the dosage per injection site by dividing the number of injection sites into the total dosage per tree as per the above rate schedule.

For example: if treating a 16 DBH inch tree at the 1.5 ml per inch DBH rate, you will need 8 injection sites ( $16 \text{ inches DBH} \div 2$ ) and a total of 24 ml of Xytect 10% Injectable Insecticide ( $16 \text{ DBH} \times 1.5 \text{ ml per inch DBH}$ ). The dosage per injection site will be  $24 \text{ ml} \div 8 \text{ injection sites} = 3 \text{ ml}$ .

Trees in advanced stages of insect infestation may not respond to treatment. The health of the tree and the environmental conditions will determine the rate of uptake.



5/6

**Table 1: Target insects on Forest and Ornamental Trees**

Adelgids
Aphids
Black Vine Weevil Larvae
Bronze Birch Borer
Diptera (including Rhododendron Gall Midge and Honey Locust Gall Midge)
Douglas Fir Gall Midge
Douglas Fir Cone Moth Larvae
Elm Leaf Beetle
Flatheaded Borer (including Alder, Birch Borer, and Emerald Ash Borer)
Froghopper
Galls (including Hickory Stem Gall)
Japanese Beetle
Lacebugs
Leafhoppers
Leafminers
Mealybugs
Pine Tip Moth Larvae
Plant Bug
Plant Hopper
Psyllids (including Lerp Psyllid)
Roundheaded Borers (including Asian Longhorned Beetle, Citrus Longhorned Beetle, Cottonwood Longhorned Borer, and Eucalyptus Longhorned Borer)
Royal Palm Bugs
Sawfly Larvae
Scale Insects
Thrips
Treehopper
Whiteflies

**USDA Rate Specification for Asian and Citrus Longhorned Beetle Programs. For Use Only Under U.S.D.A. Supervision. For Use With U.S.D.A. Approved Injection Devices.**

Read and follow the manufactures' written documentation on the proper use and maintenance of the injector you are using. Use the following rates as a function of tree diameter at breast height (DBH).

- 2 to 23 inches DBH – 2 ml per diameter inch.
- 23 inches DBH and above – 4 ml per diameter inch.

**DIRECTIONS:**

To determine the initial number of needed injection holes, measure the tree at breast height using a standard forestry tape measure.

- a) If measuring the circumference, divide this number by six (6) to determine the number of holes needed.
- b) If measuring the diameter, divide this number by two (2) to determine the number of injection holes needed.
- c) Make initial injector sites in the active sapwood, evenly spaced around the tree at the root buttress region and avoiding the root valleys.
- d) If a single hole cannot accept its full dose, that dose may be divided among the other initial injection holes.
- e) If additional holes are needed they may be spaced horizontally or vertically from the initial holes. The minimum horizontal spacing for injection sites is about 3 inches. The minimum vertical spacing for injection sites is 6 inches. Stagger vertical spacing and do not align. **Do not apply more than once per calendar year.**



6/6

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store containers in an upright position, above 45°F, in a cool, dry place.

**PESTICIDE DISPOSAL:** Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Non-refillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Offer for recycling, if available or puncture and dispose of in a sanitary landfill, or by incineration if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(non-refillable ≤ 5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

(non-refillable > 5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two or more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**NOTICE OF WARRANTY**

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS MAKES NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PURPOSE OR OTHERWISE, EXPRESSED OR IMPLIED CONCERNING THIS PRODUCT OR ITS USE WHICH EXTEND BEYOND THE USE OF THE PRODUCT UNDER NORMAL CONDITIONS IN ACCORD WITH THE STATEMENTS MADE ON THIS LABEL.

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