TreeAzin® Provides up to Two Years’ Control of Emerald Ash Borer

TreeAzin® Systemic Insecticide is a highly effective product for control of emerald ash borer (EAB) in the United States. TreeAzin, derived from neem tree seed extracts (not neem oil), is not a neonicotinoid and is not from the avermectin family of pesticides. TreeAzin is registered as a bioinsecticide by the U.S. Environmental Protection Agency (EPA Reg No. 82996-1) and is listed for organic use by the Organic Materials Review Institute (OMRI). EAB is a non-native pest that attacks all native species of true ash trees of any size and age. The larvae feed on the inner vascular tissues, cutting off water and nutrient flow to the canopy, while mature beetles feed on the leaves from June to August. TreeAzin provides up to two years’ protection against EAB, can prevent EAB damage in healthy ash trees and significantly improves an ash tree’s chance of survival if damage is not yet too severe. Over 99% of untreated ash trees will die.

When applied at the maximum dose, TreeAzin:

- Kills greater than 95% of EAB larvae
- Significantly reduces the number and viability of eggs laid

When used as labeled, TreeAzin reduces exposure to:

- Children, applicators, bystanders, and pets
- Bees, birds, and mammals
- Soil and aquatic ecosystems

Common Signs and Symptoms of EAB

EAB infested ash trees may not initially show signs or symptoms. Early treatment prior to damage occurring greatly increases ash survival rates.

- Bark splits
- Trunk shoots
- D-shaped exit holes
- S-shaped galleries
- Woodpecker feeding
- Crown thinning
To ensure optimal success, have your ash tree assessed by a qualified service provider for early detection and treatment. TreeAzin can only be injected by trained, licensed pesticide applicators. To find a service provider near you, visit www.bioforest.ca/serviceproviders.

Economic benefits of trees - treatment vs. removal and replacement:
- On average, TreeAzin treatments cost less than tree removal, disposal, and replanting
- Trees act as a windbreak, reducing heating costs
- Trees increase property values significantly
- Trees add beauty to neighborhoods and reduce noise pollution
- Trees provide shade, reducing cooling costs
- Trees absorb rainwater, reducing runoff
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Assessing your tree for EAB treatment: A qualified service provider will follow these three steps in order to provide an accurate treatment quote.

1: Confirm your tree is a true ash
   True Ash:
   - Medium to large trees
   - Compound leaves, 7 to 9 leaflets
   - Paddle-shaped seeds

   Mountain Ash: (does not require treatment)
   - Small trees or bushes
   - Compound leaves, 13 to 17 leaflets
   - Clusters of red berries in the fall

2: Determine your tree size
   A service provider will measure 4.5 feet above ground to determine chest height.
   The service provider will measure the diameter of the main trunk in inches at chest height. This is referred to as the diameter at breast height (DBH).

3: Recommend the appropriate TreeAzin dose
   If your tree is within 15 miles of a known EAB infestation, the service provider will recommend the maximum TreeAzin dose of 12.5 mL/inch.
   If your tree is greater than 15 miles from a known EAB infestation, the service provider may recommend a preventive TreeAzin dose of 5-10 mL/inch.

TreeAzin and other insect pests: TreeAzin is registered in the United States for control of the following insect pests:

<table>
<thead>
<tr>
<th>5 - 12.5 mL/inch DBH</th>
<th>8 mL/inch DBH</th>
<th>5 mL/inch DBH</th>
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</thead>
<tbody>
<tr>
<td>Emerald Ash Borer (up to two year control)</td>
<td>Gypsy Moth, Tent Caterpillars, Leaf Miners, Spruce Budworm, Jack Pine Budworm, Hemlock Woolly Adelgid, Elm Leaf Beetle, European Elm Scale, and Red Elm Bark Weevil</td>
<td>Sawflies (including: Birch Leaf Miner)</td>
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