

# TREE-äge G5

EMAMECTIN BENZOATE	GROUP	6	INSECTICIDE
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Injected insecticide for two-year control of listed insect and mite pests in deciduous, coniferous, and palm trees

## Active Ingredient:

Emamectin Benzoate <sup>1</sup> .....	5.0%
Other Ingredients.....	95.0%
<b>Total.....</b>	<b>100.00%</b>

<sup>1</sup>CAS No.155569-91-8

Contains 0.408 lbs. emamectin per gallon

## KEEP OUT OF REACH OF CHILDREN WARNING/ AVISO

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.)

EPA Reg. No. 74578- 14  
EPA Est. No. 39578-TX-1  
SCPPL-ABJ 10-L1A 0815  
4061003  
Net Contents: 1 Pint (. 473 Liter)

Manufactured for Arborjet, Inc. 99 Blueberry Hill Road, Woburn, MA 01801

### FIRST AID

If in eyes	<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>
If swallowed	<ul style="list-style-type: none"><li>Call poison control center or doctor immediately for treatment advice.</li><li>Have person sip glass of water if able to swallow.</li><li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>Do not give anything by mouth to an unconscious person.</li></ul>

**NOTE TO PHYSICIAN:** Early signs of intoxication include dilation of pupils, muscular incoordination, and muscular tremors. Vomiting within one-half hour of exposure can minimize toxicity following accidental ingestion of the product; rapidly after exposure (< 15 minutes) administer repeatedly medical charcoal in a large quantity of water or ipecac. If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parenteral fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and proper respiratory functionality) as indicated by clinical signs, symptoms, and measurements. In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since emamectin benzoate is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic emamectin benzoate exposure.

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, Fire or Accident)  
Call 1-800-255-3924

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

**WARNING/AVISO:** Moderately irritating to the eye. Do not get in eyes or on clothing. Wear protective eyewear. Harmful if swallowed. 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 long pants
- Chemical-resistant gloves such as barrier laminate; butyl rubber (≥14 mils); nitrile rubber (≥14 mils); or neoprene rubber (≥14 mils).
- Shoes and socks
- Protective eyewear

#### Environmental Hazards

This product is highly toxic to fish, mammals and aquatic invertebrates. Do not apply directly to water, 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. This product is highly toxic to bees exposed to direct treatment or residues on blooming trees. Do not apply this product to blooming trees if bees are foraging the treatment area

#### Physical or Chemical Hazards

Do not use or store near heat or open flame.

### 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. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ARBORJET, INC. or Seller. To the extent permitted by applicable law, Buyer and User agree to hold ARBORJET, INC. and Seller harmless for any claims relating to such factors.

ARBORJET, INC. 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 under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or ARBORJET, INC., and (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, ARBORJET, INC. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall ARBORJET, INC. be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ARBORJET, INC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, 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 THE ELECTION OF ARBORJET, INC. OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

ARBORJET, INC. and Seller offer this product, and Buyer and User accept it, 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 ARBORJET, INC.

### DIRECTIONS FOR USE

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

**IMPORTANT:** Read entire label before using this product. Failure to follow label instructions may result in poor control or tree injury. Failure to follow label directions may cause injury to people, animals and environment.

### APPLICATION TO TREES

TREE-äge G5 is for control of mature and immature listed arthropod pests of deciduous, coniferous, and palm trees, including, but not limited to, those growing in residential and commercial landscapes, parks, plantations, seed orchards, and forested sites (in private, municipal, state, tribal and national areas). TREE-äge G5 contains the active ingredient emamectin benzoate and is formulated to translocate in the tree's vascular system when injected. This product must be placed into active sapwood and will actively control pests for up to two years.

### USE DIRECTIONS

TREE-äge G5 is designed for use with tree injection devices that meet the label and dose requirements ([for example, the Arborjet Tree Injection Systems]) for the control of listed pests of trees. Follow manufacturer's directions for equipment use.

Dosages are based on the Diameter (in inches) of the tree at Breast Height (DBH). Breast height is defined as 4.5 feet (1.37m) above the ground on the uphill side of the tree.

The diameter is determined by measuring the circumference of the tree at DBH and dividing the circumference (in inches) by three (3). To determine DBH<sup>1</sup> for multi-stemmed woody ornamentals, measure the DBH for each stem or branch and add together for the total DBH<sup>1</sup> per tree.

**Placement of Application/Injection Sites:** Inject at the base of the tree. Inject into the stem within 12 to 24" of the soil, into the trunk flare or into tree roots exposing them by shallow excavation. Make applications into intact, healthy sapwood. Do not inject into injured areas or areas with decay.

**Number of Injection Sites:** Work around the tree, spacing injection sites approximately every 4 to 8 inches of tree's circumference.

**Drill Depth:** Drill through the bark then 5/8" to 2" into the sapwood with the appropriate sized drill bit. Use clean, sharp drill bits. Precautions should be taken to avoid diseased areas and transferring infected tissues to other injection sites.

#### Resinous Conifers

In resinous conifers, such as pine and spruce, start the injection immediately after drilling into the sapwood.

#### Palms

Make applications into palms 2-3 feet from the soil level, above the lignified tissues. One (typical) to 4 injection points may be installed. Drill into the palm tissue 4" deep, or up to 1/3 trunk diameter.

#### WHEN TO TREAT

TREE-äge G5 contains the active ingredient emamectin benzoate, which is a glycoside insecticide. It is active against immature and adult stages of arthropods. The primary route of toxicity is through ingestion.

**ENVIRONMENTAL CONDITIONS:** Uptake of TREE-äge G5 is dependent upon the tree's transpiration. For better uptake, apply when soil is moist, soil temperatures are above 45°F, ambient temperatures are between 40° to 90° F, and during the 24 hour period when transpiration is greatest, typically before 2:00 PM. Applications to drought- or heat-stressed trees may result in injury to tree tissue, poor treatment and subsequent control. Avoid treating trees that are moisture stressed or suffering from herbicide damage.

**MONITOR TREE HEALTH and PEST INFESTATIONS:** Effective injection treatment is favored by a full canopy (i.e., leaves) and healthy vascular system. Once these tissues are compromised by arthropod damage (larval galleries, defoliation, leaf mining, etc.) an effective and uniform application of TREE-äge G5 may be difficult to achieve and subsequent control may be poor. Optimally, treatment should be made preventively at least 2 to 3 weeks before arthropods historically infest the host tree. As a result of systemic movement and longevity of TREE-äge G5 in trees, this interval may be extended much earlier to 6 months should tree dormancy, adverse weather, management, asynchronous life cycle of pests, etc., allow earlier application timing. TREE-äge G5 may also be effective as a remedial treatment against some pests, such as those with slower development or if multiple life stages occur. Pests that attack the stem and branches may disrupt vascular tissue, resulting in poor distribution of the product in an infested tree. However, control may be achieved if susceptible larvae come into contact or feed on TREE-äge G5-treated tissues.

#### USE

Use as formulated or dilute with equivalent of 1 to 9 volumes of water. Refer to Application in Trees Table for specific instructions.

For non-emergency (e.g., current product information), call Arborjet, Inc. at 1-781-935-9070.

**ARBORJET**  
Revolutionary Plant Health Solutions

**USE RATE TABLE**

Tree Diameter (DBH) (Inches)	Low <sup>1</sup> ml. product/tree	Medium ml. product/tree	High ml. product/tree
4 to 6	8-16	16-36	36-48
7 to 9	16-24	24-52	52-72
10 to 12	20-28	28-75	72-96
13 to 15	24-36	36-88	88-120
16 to 18	32-44	44-108	108-144
19 to 21	40-48	48-128	128-168
22 to 24	44-56	56-144	144-192
25 to 27	52-64	64-160	160-216
28 to 30	56-72	72-180	180-240
31 to 33	64-80	80-200	200-264
34 to 36	68-88	88-216	216-288
37 to 39	72-96	96-232	232-312
40 to 42			
43 to 45			
46 to 48			
49 to 51			
52 to 54			
55 to 57	96-192	192-240	240-320
58 to 60			
61 to 63			
64 to 66			
67 to 69			
70 to 72			

**CALIFORNIA USE RATE TABLE**

Tree Diameter (DBH) (Inches)	Low <sup>1</sup> ml. product/tree	Medium ml. product/tree	High ml. product/tree
4 to 6	12-16	16-36	36-48
7 to 9	16 - 24	24-52	52-72
10 to 12	24 - 28	28-72	72-96
13 to 15	28 - 36	36-88	88-120
16 to 18	32 - 44	44-108	108-144
19 to 21	40 - 48	48-128	128-168
22 to 24	-	92-144	144-192
25 to 27	-	104-160	160-216
28 to 30	-	116-180	180-240
31 to 33	-	128-200	200-264
34 to 36	-	140-216	216-288
37 to 39	-	152-232	232-312
40 to 42			
43 to 45			
46 to 48			
49 to 51			
52 to 54			
55 to 57	-	164-240	240-320
58 to 60			
61 to 63			
64 to 66			
67 to 69			
70 to 72			

The use of low, medium, or high dose per tree is based on the experienced judgment of the applicator as to what constitutes a low, medium or high infestation.

The need for use of volumes between low, medium and high doses per tree listed above is based on the experienced judgement of the applicator.

Higher rates tend to provide longer residual and control of more difficult to control insects. See Target Pest for additional information in choosing the amount of product to apply.

If the tree canopy has been significantly reduced, i.e., excessive tree pruning or turning trees into a hedge, reduce dose accordingly.

<sup>1</sup>In Palms always use the low ml. product/tree.

\*Not for use in the State of California.

**STORAGE AND DISPOSAL**

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

**Pesticide Storage**

Store in a cool, dry place, away from children and pets. Keep from freezing.

**Pesticide Disposal**

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

**Container Handling**

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for 15 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 15 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

**APPLICATIONS IN TREES**

Tree Tissue	Target Pest	Application Rate <sup>1</sup>	Comments
Seed and Cone	<ul style="list-style-type: none"> <li>• Coneworm (Dioryctria spp.)</li> <li>• Cone beetle (Conophthorus spp.)</li> <li>• Pine Cone Seed Bug (suppression of Leptoglossus and Tetyra spp. in the year of treatment)</li> </ul>	Medium to High	For optimal control apply in the fall for early season pests or at least 30 days before insect attack
Bud and Leaf	<ul style="list-style-type: none"> <li>• Tent Caterpillars (including Eastern, Forest, Pacific, and Western)</li> <li>• Spruce Budworm (eastern and Western)</li> <li>• Winter Moth</li> </ul>	Low to Medium	For best results, apply at least 2-3 weeks before the pest has historically been present. Consult with local extension agent for when this will occur in your area.
	<ul style="list-style-type: none"> <li>• Bagworm</li> <li>• Cankerworm</li> <li>• Casebearer*</li> <li>• Eastern Oak Looper</li> <li>• Elm Spanworm</li> <li>• Fall Webworm</li> <li>• Gypsy Moth</li> <li>• Leafrollers</li> <li>• Linden Looper</li> <li>• Mimosa Webworm</li> <li>• Oak Worm</li> <li>• Pine Needle Miner*</li> <li>• Poplar Tentmaker*</li> <li>• Tussock Moth</li> <li>• Variable Oakleaf Caterpillar*</li> <li>• Yellownecked Caterpillar*</li> <li>• Leafminers (including Lepidoptera, Coleoptera, Hymenoptera)</li> <li>• Honeylocust Plant Bug</li> <li>• Pine Needle Scale</li> <li>• Conifer Mite</li> <li>• Red Palm Mite</li> <li>• Sawfly (including Elm, Pine)</li> </ul>	Low to High	For more uniform distribution in the canopy (foliage), dilute product with equivalent 1 to 9 volumes of water prior to application.
Shoot, Stem, Trunk and Branch	<ul style="list-style-type: none"> <li>• Clearwing Borers (including Ash, and Sequoia Pine Pitch Tube Moth)</li> <li>• Carpenterworm*</li> <li>• Cottonwood Twig Borer</li> <li>• Zimmerman Moth</li> </ul>	Low to Medium	For best results, apply at least 30 days before historical egg hatch or adult flight and to trees whose vascular tissue is not damaged. For more uniform distribution in the canopy (foliage), dilute product with equivalent 1 to 9 volumes of water prior to application.
	<ul style="list-style-type: none"> <li>• Flat-headed Borers (including adult and larvae of Emerald Ash Borer)</li> </ul>	Medium to High	If vascular tissue is damaged or plugged by insect galleries, nematodes or fungi, uniform treatment and control may not be achieved.
	<ul style="list-style-type: none"> <li>• Gall Wasps, including Banyan</li> <li>• Stem Gall Wasp*</li> <li>• Roundheaded Borers (excluding Asian Longhorned Beetle)</li> <li>• Ambrosia Beetles (including Polyphagous Shot Hole Borer, Euwallacea fornicatus)<sup>2</sup></li> <li>• Scolytids (bark beetles)</li> <li>• Ips Engraver Beetles<sup>3,4</sup></li> <li>• Mountain Pine Beetle<sup>2,3</sup></li> <li>• Southern Pine Beetle<sup>3</sup></li> <li>• Spruce Beetle<sup>3</sup></li> <li>• Western Pine Beetle<sup>3</sup></li> <li>• Black Turpentine Beetle<sup>3</sup></li> <li>• Walnut Twig Beetle<sup>2,4</sup></li> <li>• Pinewood Nematode</li> </ul>	Medium to High	For bark beetles that attack the tree bole: for more uniform distribution within the tree bole, inject every 4 inches of stem circumference. For bark beetles that attack the canopy: dilute product with equivalent 1 to 9 volumes of water prior to application.

<sup>1</sup>Use medium to high rates for remedial and longer residual control.

<sup>2</sup>Use of TREE-äge G5 to control this insect may not result in the control of diseases vectored by the insect.

<sup>3</sup>Bark beetles that attack the tree bole

<sup>4</sup>Bark beetles that attack the canopy

\*Not for use in the State of California.

**Compatibility**

Do not mix TREE-äge G5 before injection with other products such as insecticides, fungicides, plant growth regulators, surfactants, adjuvants, and fertilizers.

**USE RESTRICTIONS**

Do not apply to trees that may yield food consumed by humans or used in animal feed. TREE-äge G5 is not to be reformulated or blended.

Manufactured by:  
Arborjet, Inc.  
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781-935-9070

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