



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (H7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

NOTICE OF PESTICIDE:

☒ Registration  
☐ Reregistration

(under FIFRA, as amended)

EPA Reg.

Number:

432-1447

Date of Issuance:

MAR 31 2006

Term of Issuance: Conditional

Name of Pesticide Product:

Merit Tree Injection Insecticide

Name and Address of Registrant (include ZIP Code):

Ms. Norma C. Pangilinan  
Bayer CropScience  
P.O. Box 12014  
2 T.W. Alexander Drive  
Research Triangle Park, NC 27709

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A). Once a pesticide is registered, however, it is not regarded as permanently acceptable. Registration does not eliminate the need for continual reassessment of pesticides. If the Agency determines that, at any time, additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under FIFRA section (3)(c)(2)(B).

1. Revise the EPA Registration Number to read, "EPA Reg. No. 432-1447".

Signature of Approving Official:

Dani Daniel  
Insecticide-Rodenticide Branch  
Registration Division (7505C)

Date:

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2. "Net Contents Statement:" Add the U.S. equivalents wherever metric measures appear in the labeling.

3. Revise the "Hazards to Humans and Domestic Animals" to read as follow: Caution: Harmful if absorbed through skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves.

4. Rearrange the "First Aid" statement as follows:

If on skin...

If swallowed:...

If eyes: 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 eye. Call a poison control center or doctor for treatment advice.

5. Revise the "User Safety Recommendations" to read as follows: Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse. Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-xxx-xxx for emergency medical treatment information.

6. The registrant is required to submit to the Agency one year storage stability and corrosion characteristics studies. It is recommended that the observations be made at 0, 3, 6, 9 and 12 month periods for both the studies.

7. Submit two copies of your final printed labeling before you release the product for shipment.

A stamped copy of the label is enclosed for your records. If you have any questions regarding this notice, please contact me at (703) 305-5409.

Enclosure:

Bayer Environmental Science

# Merit<sup>®</sup> Tree Injection Insecticide

For injection into trees in nurseries, greenhouses, and interior and exterior landscapes, and in private, municipal, state, and national forested areas.

## ACTIVE INGREDIENT:

\*Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine ..... 17.1%

OTHER INGREDIENTS: ..... 82.9%  
100%

EPA Reg. No. 432-xxxx

EPA Est. No. \_\_\_\_\_

**STOP - Read the label before use.  
Keep out of reach of children.**

## CAUTION

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Keep children or pets off treated area until injection and uptake are complete.

#### Personal Protective Equipment (PPE):

Applicators and Other Handlers who handle this product must wear:

- Shirt and pants
- Chemical resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber or natural rubber
- Shoes plus socks

Follow manufacturer's instructions for cleaning/ maintaining personal protective equipment, PPE. If no such instructions for washables, 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 pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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.

ACCEPTED  
WITH COMMENTS  
In EPA Letter Dated:  
MAR 31 2006

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.  
432-1447

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## FIRST AID

<b>If swallowed</b>	<ul style="list-style-type: none"> <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 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 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
In case of emergency call toll free the Bayer Environmental Science Emergency Response Telephone No. 1-800-334-7577. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>Note To Physician:</b> No specific antidote is available. Treat the patient symptomatically.	

## ENVIRONMENTAL HAZARDS

This product is highly toxic to aquatic invertebrates. 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 washwaters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming trees and shrubs.

**Do not formulate this product into other end-use products.**

## 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 requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### APPLICATION TO TREES

Merit Tree Injection can be used to control a variety of insect pests of ornamental or forest trees. Pests controlled include aphids, whiteflies, soft scales, adelgids, leafhoppers, lace bugs, mealybugs, psyllids, leaf-feeding beetles, sawflies, borers, and leafmining flies, beetles, and wasps. Merit Tree Injection also can be used for suppression of thrips and armored scales. Merit Tree Injection can be used as directed on ornamental trees in residential areas, business and office complexes, shopping complexes, multi-family residential complexes, golf courses, airports, cemeteries, parks, playgrounds, and athletic fields. Merit Tree Injection also can be used in commercial forestry production, nurseries, greenhouses, and in state, federal, county and local recreational forests.

The active ingredient in Merit Tree Injection has sufficient residual activity so that applications can be made preceding the attack of the trees by target pests. Merit Tree Injection also controls existing infestations of most labeled pests; control of existing infestations of borers and other difficult-to-control pests can be achieved if the level of infestation is not excessively severe at the time of application. If the level of infestation is severe, the high label rate for the targeted pest is recommended.

Systemic activity occurs only after the active ingredient is translocated upwards in the tree. In some cases, translocation can take 10 days or longer, depending on the transpiration rate of the treated plant.

The need for an application can be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods. For best results (i.e., to ensure uptake), application should be made when the tree is actively transpiring.

**NOTE:** Not for use on trees where the fruits and/or nuts are consumed. Do not apply more than once per year per tree.

### Application Equipment

Merit Tree Injection can be applied with a variety of trunk injection devices. Devices should be chemically-resistant. For all injector systems, read carefully and follow all manufacturer's directions for use.

#### Drilling the hole

With most injector systems, it is necessary to predrill holes prior to insertion of the applicator device. Holes should be drilled deep enough to permit transport of Merit Tree Injection upwards in the vascular tissue.

**DOSING:** For microinjection, set and dispense into the injector the required dosage, and pressurize the injector as directed.

For high-volume injection, FIRST add the required amount of water to the reservoir of the injector, and then dispense the prescribed amount of Merit Tree Injection into the reservoir.

For high-volume injection, add no more than 7 ml of Merit Tree Injection per liter of water. While injecting, ensure that the active ingredient remains in solution. The solubility of the product in the water can depend upon the temperature, pH, and the mineral content

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of the water. A small amount of Merit Tree Injection should be diluted in water, and the mixture carefully observed. If the mixture appears cloudy or if solid particles form within 5-10 minutes, a more dilute injection solution should be prepared.

#### RECOMMENDED APPLICATIONS

Trees and shrubs (greater than 2" diameter and chest height)

For bee-pollinated dicotyledenous trees, applications should be made post-bloom.

Pest	Dosage
Adelgids Aphids Japanese beetles Lace bugs Leaf beetles (including elm and viburnum leaf beetles) Leafhoppers (including glassy-winged sharpshooter) Leafmining flies and wasps Mealybugs Psyllids Soft scales Whiteflies	0.75-1.5 ml Merit Tree Injection per inch of cumulative trunk diameter at chest height (54" from ground). Space injection holes approx. 6" apart, around the circumference of the tree.
Armored scales (suppression) Roundheaded borers (incl. Eucalyptus longhorned borer) Flatheaded borers (including bronze birch borer, alder borer, and emerald ash borer) Leafmining beetles and moths Pine tip moth larvae Royal palm bug Sawfly larvae Thrips (suppression)	1.5-3 ml Merit Tree Injection per inch of cumulative trunk diameter at chest height (54" from ground). Space injection holes approx. 6" apart, around the circumference of the tree.

For trees greater than 12" diameter, or if trees are already infested, the highest label rate specified for control of targeted pests is recommended. For trees larger than 24" diameter, always use the highest label rate for the targeted pest.

#### RESTRICTIONS

Do not use on fruit or nut trees intended for food uses.

#### 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 as to prevent 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. Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer Environmental Science Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer Environmental Science Emergency Response Telephone No. is 1-800-334-7577 or contact Chemtrec at 800-424-9300.

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

**Container Disposal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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## **IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of liability before using this product.

If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However, because of manner of use and other factors beyond Bayer Environmental Science's control it is impossible for Bayer Environmental Science to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

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