

	U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (H7505C) 401 "M" St., S.W. Washington, D.C. 20460		EPA Reg. Number: 64014-10	Date of Issuance: AUG - 8 1997
	NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> Registration <input type="checkbox"/> Reregistration		Term of Issuance: Unconditional	
	(under FIFRA, as amended)		Name of Pesticide Product: VIVID II	
Name and Address of Registrant (include ZIP Code): Florida Silvics, Inc. dba. Tree Tech Mircroinjection Systems 479 S. W. 42nd St. Williston, FL 32696				
<p>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.</p>				
<p>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.</p> <p>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.</p> <p>This product is unconditionally registered in accordance with FIFRA sec. 3(c)(5). 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).</p> <ol style="list-style-type: none"> 1. Make the following label changes: <ol style="list-style-type: none"> a. Add the phrase EPA Registration Number 64014-10" to the label. - b. Based on your products use pattern add the following to your front panel, "For Use by Commercial Arborists (Applicators)." c. Revise the Hazards to Humans and Domestic Animals to read: WARNING: Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Prolonged or frequently repeated exposure may cause allergic skin reactions in some individuals. Harmful if inhaled or absorbed through the skin. Avoid contact with skin. May be fatal if 				
Signature of Approving Official:			Date:	

swallowed. Remove any contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling, before eating, drinking and using tobacco.

d. Add the section entitled "Recommendations for Medical Treatment for Abamectin B1 Acute Toxicity" as it appears on the cited reference product EPA Registration No. 64014-5.

e. Revise the Environmental Hazards statements to read as follows:

This pesticide is toxic to fish and wildlife. Do not apply directly to any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes. This product is highly toxic to bee exposed to direct treatment or residues on blooming crops. Use for tree microinjection only as a post-bloom application.

f. Delete the word "safe" on page 3 in the second paragraph. Word or phrases stating or implying safe use a pesticide are unacceptable. You may substitute "proper."

g. Submit labeling for the individual microinjector unit. This unit must bear the minimum following information:

1. Product Name
2. Signal Word and Keep Out of Reach of Children
3. Ingredient Statement
4. EPA Registration Number
5. Referral statement to carton label for complete precautions and directions

h. Add the following restrictions under General Directions:

Do not inject trees that are less than two inches in diameter.

Do not inject trees withing two weeks of any other spray or soil chemical treatment.

Do not treat trees that are suffering from stress such as lack of moisture or herbicide damage.

This product is not be used on trees which will produce food within the year following treatment.

2. Submit two copies of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

George T. LaRocca
Product Manager (13)
Insecticide Branch
Registration Division (7505C)

Enclosure

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VIVID™ II

CONTAINS ABAMECTIN INSECTICIDE APPLIED INTERNALLY BY TREE TECH™ MICROINJECTION SYSTEM FOR CONTROL OF ELM LEAF BEETLE IN ORNAMENTAL TREES

ACTIVE INGREDIENT:

Abamectin [A mixture of avermectins containing a minimum of 80% avermectin B_{1a} (5-0-demethyl avermectin A_{1a}) and a maximum of 20% avermectin B_{1b} (5-0-demethyl-25-de (1-methylpropyl)-25-(1-methylethyl) avermectin A_{1a})].....

By Wt.

100%

INERT INGREDIENTS.....

00.0%

100.0%

NET CONTENTS: Each microinjection unit contains 2000 grams a.i. abamectin systemic insecticide (VIVID™ II).

U.S. Patent No. 4,310,519 VIVID™ II is a Reg. TM of Florida Silvics, Inc., Williston, FL 32696

EPA Reg. No. 64014-~~XX~~ EPA Est. No. 64014-FL-001

STOP -- READ THE LABEL BEFORE USE

KEEP OUT OF REACH OF CHILDREN

WARNING

SEE REAR PANEL FOR STATEMENTS OF PRACTICAL TREATMENT AND OTHER PRECAUTIONARY STATEMENTS

NET CONTENTS: 2 mL per microinjection unit
100 microinjection units (200 mL total) per carton

Sold by:

FLORIDA SILVICS, INC.
(dba TREE TECH MICROINJECTION SYSTEMS)
1879 S.W. 18TH AVE.
WILLISTON, FL 32696

ACCEPTED
with COMMENTS
in EPA Letter Dated

AUG - 8 1997

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

64014-10

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Remove and launder contaminated clothing separately from household articles before reuse.

STATEMENT OF PRACTICAL TREATMENT

In case of ingestion call a physician or poison control center. Have the patient lie down and keep quiet.

IF IN EYES : Flush eyes with plenty of water. Call a physician if irritation persists.

IF ON SKIN: Remove contaminated clothing and immediately wash affected area with soap and water. If irritation occurs, get medical attention.

IF INHALED: Remove to fresh air. Get medical attention.

IF SWALLOWED: Call a physician or poison control center immediately. Induce vomiting by giving the patient 1 or 2 glasses of water and touching the back of the throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person

PERSONAL PROTECTIVE EQUIPMENT

Wear chemical resistant gloves and protective eyewear when handling and applying the product.

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.

AVISO

PRECAUCION AL USARIO: 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.)

PHYSICAL OR CHEMICAL HAZARDS:

Do not use or store near heat or open flame

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING. VIVID II systemic insecticide is for use by commercial applicators on all species of ornamental and non-crop-bearing trees, and ornamental woody shrubs in commercial and residential landscapes, interior and exterior plantscapes, roadsides, gardens, parks, golf courses, lawns or grounds and other areas where trees and woody shrubs are grown. VIVID II systemic insecticide will be translocated throughout the vascular system of the plant.

GENERAL DIRECTIONS

Applying VIVID™ II using the Tree Tech™ microinjection system:

VIVID II label and microinjection instructions must be read and understood prior to use or installation of Tree Tech Microinjection Systems' microinjection units. Failure to follow these directions may lead to injury to the installer or other persons as well as mechanical or phytotoxic damage to treated trees. The following instructions must be heeded to ensure safe and effective use of the microinjection units containing VIVID II systemic insecticide:

1. Protective eye wear and rubber or neoprene gloves must be worn while handling or installing the microinjection unit to prevent accidental contact with the eyes or skin.
2. When properly installed and activated, the microinjection unit generates internal pressure resulting in the flow of VIVID II solution through the dispenser tube. The microinjection unit must never be activated unless installed correctly and securely in the tree to be treated.
3. Microinjection units containing VIVID II may require up to several minutes or more to empty depending on the health of the treated tree and local weather conditions. Never assume that microinjection units have depressurized completely because they appear nearly empty or empty. When removing microinjection units, individuals must wear proper eye protection and rubber or neoprene gloves. The individual should then cover the microinjection unit with one hand near the point of insertion into the stem while grasping the barrel end of the microinjection unit with the other hand. The injector should be turned slightly as it is slowly withdrawn from the tree.
4. After microinjection units are removed from treated trees they must be discarded into the heavy-duty plastic disposal bag included in each case of microinjection units. The bag should be properly sealed and placed in the original carton. Sealed cartons should be returned freight prepaid to Tree Tech Microinjection Systems, Airport Industrial Park, 1879 S.W. 18th Ave., Williston, FL 32696 for disposal.

Installing Microinjection Units:

1. Determine the number of microinjection units to be installed based upon 1) the target insect pest, and 2) the recommended dosage rate as administered by proper circumferential spacing of microinjection unit at 6-inch intervals around the stem. Unless otherwise noted, microinjection

units should be installed in the stem and root flares near the ground line, i.e., 2.0-8.0 in. or 5-to-20 cm, from the soil surface.

2. Using a cordless electric drill (600-800 rpm capacity is preferred) with a sharp, clean 11/64-in. (0.4-cm) bit, the installer should drill a hole at the correct stem circumference spacing to a depth of 3/8-to-1/2 in. (1.0-to-1.3 cm) into the wood (xylem) under the bark. A slight downwardly angle is recommended for more complete drainage of the microinjection unit.

3. After reaching the proper depth range, the drill bit should be withdrawn carefully to avoid dislodging bark fragments around the exterior opening of the hole. Insert the microinjection unit into the hole. Placing the plastic installation cap over the rear barrel end, strike the cap with a plastic hammer to seat the microinjection unit firmly into the hole. If the microinjection unit is not properly positioned in the hole, strike the cap again until correctly seated. By striking the microinjection unit, the frontal dispenser tip is forced into the funnel-shaped section dislodging an internal septum which allows the VIVID II solution to flow from the microinjection unit into the tree. When the microinjection unit is positioned correctly in the tree and the septum is dislodged, remove the cap. Push the rear barrel portion of the unit downwardly until the locking mechanism is engaged. This pressurizes the microinjection unit and assists in the movement of VIVID II into the vascular system of the tree.

4. Each hole should be drilled and a microinjection unit installed without delay. After the unit is properly seated, it should be activated. This sequence minimizes the flow of tree sap or resin into the hole prior to VIVID II microinjection.

5. When properly installed and activated, the microinjection unit generates internal pressure resulting in the flow of VIVID II solution through the dispenser tube. The microinjection unit must never be activated unless installed correctly and securely in the tree to be treated.

6. Microinjection units containing VIVID II may require up to several minutes or more to empty depending on the health of the treated tree and local weather conditions. Microinjection units should be removed upon evacuation of VIVID II systemic insecticide solution.

APPLICATION: Apply in all cases when plant root systems are established and actively growing. Applications should be applied at recommended intervals to maintain insect control.

Plant	Insects	Microinjection Unit Spacing Interval Around Stem Circumference	Time of Injection
Ornamental trees (including forest, ornamental, non-crop-bearing as well as woody shrubs)	Elm leaf beetles	1 microinjection unit every 6 inches	Two weeks prior to anticipated occurrence, or as soon as insects appear

GENERAL INFORMATION

CONDITIONS OF SALE

THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE APPROPRIATE FOR THE CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED UNDER DIFFERENT ENVIRONMENTAL CONDITIONS BOTH INDOORS AND OUTDOORS UNDER CONDITIONS SIMILAR TO THOSE THAT ARE ORDINARY AND CUSTOMARY WHERE THE PRODUCT IS TO BE USED. INSUFFICIENT CONTROL OF PESTS OR PLANT INJURY MAY RESULT FROM THE OCCURRENCE OF EXTRAORDINARY OR UNUSUAL CONDITIONS, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO ANIMALS, MAN, AND DAMAGE TO THE ENVIRONMENT. TREE TECH MICROINJECTION SYSTEMS OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL ENVIRONMENTAL CONDITIONS, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF TREE TECH MICROINJECTION SYSTEMS, AND ARE THEREFORE, THE RESPONSIBILITY OF THE BUYER.

1. Tree Tech Microinjection Systems warrants that this product conforms to the chemical description on the label and is reasonably fit for the use under average conditions when used strictly in accordance with the directions on the labeling. Tree Tech Microinjection Systems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product. Specifically, NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE IS MADE.

2. Critical and unforeseeable factors beyond the control of Tree Tech Microinjection Systems prevent it from eliminating all risks in connection with the use of this product. Such risks, include, but are not limited to, damage to plants to which the product is applied, lack of complete control over the handling and application of this product, and damage caused by movement to other plants or crops. Such risks occur even though the product is reasonably fit under average conditions for the uses stated on the labeling and even though label directions are followed. Buyer and user acknowledge and assume all risks and liability (except those assumed by Tree Tech Microinjection Systems under 1 above) resulting from handling, storage and use of this product.

3. Precautions stated on the labeling should be followed to avoid hazardous exposure to the product. Neither Tree Tech Microinjection Systems nor its employees or distributors will be liable for any damages resulting from improper use of the microinjection units.

STORAGE AND DISPOSAL

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

Do not apply this product through any type of irrigation system.

Open dumping is prohibited.

Store microinjection units at room temperature (45°-75°F). Do not freeze. Do not contaminate water, food, or feed by storage or disposal.

STORAGE: Store product in the closed, original container in a cool, dry, locked place out of the reach of children.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site according to local regulations or at an approved waste disposal facility.

MICROINJECTION UNIT CONTAINER DISPOSAL: Do not re-use microinjection units. Used microinjection units should be placed in the heavy-duty plastic bag which accompanies each case of microinjection units. The bag should properly sealed, placed into the original shipping carton and returned freight prepaid for disposal to Tree Tech Microinjection Systems, Airport Industrial Park, 1879 S.W. 18th Ave., Williston, FL 32696.

VIVID - Reg. TM of Florida Silvics, Inc.
Avermectin insecticide produced by Merck AgVet, Division of Merck & Co., Inc.