

79676-57

11-13-2008

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



OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

11/13/2008

Etigra
c/o Michael Kellogg
Pyxis Regulatory Consulting, Inc.
4110 136th St, NW
Gig Harbor, WA 98332

re: Abamectin E-Pro 0.15 EC Insecticide, EPA Reg. # 79676-57
label amendment submitted 6/23/2008
accepted

Dear Mr. Kellogg:

The revised labeling submitted in connection with the registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is **ACCEPTABLE**. This amendment removes the dermal sensitization statement from the Precautionary Statements (as supported by submitted a negative dermal sensitivity study). It also updates the storage and disposal text per PR Notice 2007-4.

Submit two (2) copies of your final printed labeling incorporating the above changes prior to releasing your product for shipment. If the above provisions are not complied with the registration will be subject to cancellation in accordance with FIFRA Section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

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

Sincerely,

A handwritten signature in black ink, appearing to read "TCH".

Thomas C. Harris
Biologist
Insecticide Rodenticide Branch
Registration Division (7505C)
Harris.Thomas@epa.gov
(703) 308-9423

enclosure

Abamectin E-Pro 0.15 EC Insecticide

MITICIDE/INSECTICIDE

For Control of Leafminers and Mites and Suppression of Aphids, Whiteflies and Thrips on Ornamental Plants.

ACTIVE INGREDIENT:

Abamectin (CAS No.'s 65195-56-4 and 65195-55-3): 2.0%*

OTHER INGREDIENTS:..... 98.0%

TOTAL: 100.0%

*1 gallon contains 0.15 lb. abamectin

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.)

FIRST AID	
If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Do not give any liquid to the person. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If in eyes:	<ul style="list-style-type: none"> • 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.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.	
NOTE TO PHYSICIAN	
<p>Early signs of intoxication include dilation of pupils, muscular incoordination, and muscle tremors. Toxicity following accidental ingestion of this product can be minimized by early administration of chemical adsorbents (e.g., activated charcoal). 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.</p> <p>In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since abamectin 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 abamectin exposure.</p>	

See inside label booklet for additional PRECAUTIONARY STATEMENTS

EPA Reg. No. 79676-57

EPA Est. No.

Manufactured for:

Etigra®
501 Cascade Pointe Lane, Suite 103
Cary, NC 27513
www.etigra.com

ACCEPTED

NOV 13 2008

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under:
Net Contents:

Abamectin E-Pro 0.15 EC Insecticide contains abamectin, the active ingredient used in Avid®.

EPA. Reg. No: 79676-57

079676-00057.20080623.Abamectin E-Pro 0.15 EC Insecticide label amendment.pdf

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

see 5/23/07 note to file

May be fatal if swallowed. Causes substantial but temporary eye injury. Causes skin irritation. Do not get in eyes, on skin, or on clothing. Wear protective eyewear such as goggles, face shield or safety glasses. Harmful if inhaled or absorbed through the skin. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. For more options, follow the instructions for Category B on an EPA chemical-resistant category selection chart.

Applicators and other handlers must wear:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves, such as barrier laminate or butyl rubber ≥ 14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing, or loading
- For shadehouse and greenhouse uses, applicators and other handlers must wear a dust/mist filtering NIOSH approved respirator with any R, P, or HE filter.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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.

USER SAFETY RECOMMENDATIONS

Users 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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. 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 or rinsate. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

ATTENTION: This product contains a chemical (N-methyl pyrrolidone) known to the state of California to cause birth defects or other reproductive harm.

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.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and 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), and

restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves, such as barrier laminate or butyl rubber \geq 14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not re-enter treated areas until sprays have dried.

GENERAL INFORMATION

Abamectin E-Pro 0.15 EC Insecticide contains the active ingredient abamectin which mixes readily with water for control of leafminers and mites on ornamental plants. Abamectin E-Pro 0.15 EC Insecticide also acts to suppress whiteflies, thrips and aphids. Abamectin E-Pro 0.15 EC Insecticide is applied as a foliar spray and must be mixed in enough water to ensure thorough coverage of the foliage.

[OPTIONAL TEXT FOR TIP-N-MEASURE CONTAINERS]

Use Directions for Tip-N-Measure Container:

1. Remove the measuring chamber cap and seal over container opening.
2. Replace the cap and securely tighten.
3. Tip the container until the measuring chamber contains the desired amount of product.
4. Return container to its level position.
5. Remove measuring chamber cap and pour product into proper application equipment.
6. Replace the cap and securely tighten.

Resistance Management

To avoid development of resistance to Abamectin E-Pro 0.15 EC Insecticide, use resistance management practices. A number of options exist to prevent resistance including the use of other insecticides/miticides with different modes of action, alternating the use of the same product in treating successive generations of insects, applying at the use rate and spray intervals specified on the product label, non-chemical alternatives, rotation of susceptible to non-susceptible plants, etc. Consult your State Cooperative Extension Service for assistance with these or other resistance management strategies.

Liriomyza leafminers resistance can be managed by making three applications of Abamectin E-Pro 0.15 EC Insecticide followed by three applications of a registered alternative insecticide with a different mode of action; then return to making Abamectin E-Pro 0.15 EC Insecticide or an alternate insecticide application. Rotation of insecticides should be timed so that Abamectin E-Pro 0.15 EC Insecticide is not applied to successive generations of this pest.

Restrictions

- Roses, chrysanthemums, and gerbera are primary hosts of mites and *Liriomyza* leafminers which Abamectin E-Pro 0.15 EC Insecticide effectively controls. Attempts to use Abamectin E-Pro 0.15 EC Insecticide to suppress aphids, thrips, and whiteflies on ornamental plants may lead to resistance of Abamectin E-Pro 0.15 EC Insecticide in mites and *Liriomyza* leafminers.
- Do not apply this product through any type of irrigation system.
- Do not apply by air.
- Not for use in citrus nurseries.
- Testing of Abamectin E-Pro 0.15 EC Insecticide has shown it to be safe on many ornamental species. However, Abamectin E-Pro 0.15 EC Insecticide is not recommended for use on ferns

(e.g., *Adiantum* spp.) or Shasta Daisy (*L. eucanthemum* spp.) to avoid the possibility of phytotoxicity.

Although Abamectin E-Pro 0.15 EC Insecticide has been found to be safe to use on most ornamental species, it is not possible to test all possible spray combinations of Abamectin E-Pro 0.15 EC Insecticide mixed with different adjuvants and surfactants. Spray mixtures should be tested by applying to a few plants and evaluating the ornamentals for phytotoxicity prior to using that spray mixture on a commercial scale.

DIRECTIONS FOR USE ON SHADEHOUSE, GREENHOUSE, AND FIELD-GROWN ORNAMENTALS, FOLIAGE PLANTS, CHRISTMAS TREES, AND OTHER WOODY ORNAMENTAL PLANTS

Pests	Amount of Abamectin E-Pro 0.15 EC Insecticide (fl. oz./100 gallons of water)	Application Timing	Application Dilutions
<p>European Red Mite Carmine Spider Mite Eriophyid Mites (Rust and Bud Mites) Southern Red Mite Spruce Spider Mite Tarsonemid Mites (Cyclamen & Broad Mites) Two-spotted Spider Mite</p>	<p>4</p>	<p>Apply Abamectin E-Pro 0.15 EC Insecticide when mites first appear. Make repeat applications as needed for control of pest.</p> <p>Apply Abamectin E-Pro 0.15 EC Insecticide when leafminers appear and repeat applications at 7 day intervals or as needed to maintain control.</p> <p>Control of Tarsonemid mites may require repeat applications to newly developing foliage.</p>	<p>Apply Abamectin E-Pro 0.15 EC Insecticide in 200-400 gallons of water per acre. If the water volume must be greater for sufficient foliage coverage (ex., 650 gal.), use 2.5 fl. oz. per 100 gallons.</p> <p>Mix a minimum of 8 fl. oz Abamectin E-Pro 0.15 EC Insecticide per Acre when water volumes are less than 200 gallons.</p> <p>Mix a minimum of 16 fl. oz Abamectin E-Pro 0.15 EC Insecticide per Acre when water volumes are more than 400 gallons.</p>
<p><i>Liriomyza</i> Leafminers</p>	<p>8</p>	<p>Repeat at 7-day intervals or as necessary to maintain control.</p>	<p>Apply Abamectin E-Pro 0.15 EC Insecticide in 100-200 gallons of water per acre. If the water volume must be greater for sufficient foliage coverage (ex., 400 gal.), use 4.0 fl. oz. per 100 gallons.</p> <p>Mix a minimum of 8 fl. oz Abamectin E-Pro 0.15 EC Insecticide per Acre when water volumes are less than 100 gallons.</p> <p>Mix a minimum of 16 fl. oz Abamectin E-Pro 0.15 EC Insecticide per Acre when water volumes are more than 200 gallons.</p>
<p>Boxwood Leafminer</p>		<p>Apply when adults begin to lay eggs in the new foliage.</p>	
<p>Aphids, Thrips and Whiteflies</p>		<p>Suppression of immature stages of these pests requires direct contact with the Abamectin E-Pro 0.15 EC Insecticide spray. Make repeat applications at 7 day intervals for up to three weeks. Then use insecticides with modes of action different from Abamectin E-Pro 0.15 EC Insecticide for up to three weeks. Direct contact of the Abamectin E-Pro 0.15 EC Insecticide spray can kill aphids, thrips and whiteflies.</p>	

Pests	Amount of Abamectin E-Pro 0.15 EC Insecticide (fl. oz./100 gallons of water)	Application Timing	Application Dilutions
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NOTE: Do not apply less than specified amount of Abamectin E-Pro 0.15 EC Insecticide. Mix with a sufficient volume of water to ensure thorough coverage of the plant. Read the section above on Resistance Management and comply with all label restrictions.

Addition of a horticultural spray oil at concentrations of between 0.5 and 1.0% of the spray volume may prolong control of target pests infesting field-grown woody ornamentals, landscape plants and Christmas trees. Make repeat applications as necessary at 7 day intervals to maintain control. To avoid damage to plants which are sensitive to oils, apply the spray mixture to a small number of plants and observe plants for two weeks before making applications on a large scale. Plants can also be damaged when using spray oils when temperature extremes occur. Carefully read and follow directions on the oil label. Do not exceed maximum use rates listed on either label.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a tightly closed container in a cool, dry place.

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: Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. 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.

CONDITION 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. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Etigra or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Etigra and Seller harmless for any claims relating to such factors.

Etigra 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 the Directions for Use. This warranty does not extend to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or Etigra, and Buyer and User assume the risk of any such use. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ETIGRA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

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Etigra 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 Etigra.

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EPA [approval date]