

85678-2

03/23/2009

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



OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

3/23/2009

RedEagle International LLC
c/o Wagner Regulatory Associates, Inc.
PO Box 640
Hockessin, DE 19707

re: Abamectin 2% Ornamental Miticide/Insecticide, EPA Reg. # 85678-2
label amendment submitted 3/19/2009, D# 407578
accepted

Dear Mr. Wagner:

The revised labeling reference to above, submitted in connection with the registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is ACCEPTABLE.

This amendment implements the label corrections specified in the registration notice issued on 3/17/2009.

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.

Yours truly,

A handwritten signature, likely of Thomas C. Harris, in dark ink.

Thomas C. Harris
Insecticide / Rodenticide Branch
Registration Division (7505C)
Office of Pesticide Programs
(703) 308-9423
harris.thomas@epa.gov

enclosure

Abamectin 2% Ornamental Miticide/Insecticide

Controls Leafminers and Mites
Suppresses Aphids, Whiteflies and Thrips

ACTIVE INGREDIENT:

Abamectin (CASRN: 65195-55-3 and 65195-56-4) 2.0%

Other Ingredients: 98.0%

Total 100.0%

ACCEPTED

MAR 23 2009

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

Contains 0.15 lb. Abamectin per gallon

EPA Reg. No. 85678-2

EPA Reg. No: 85678-2

EPA Est. No. xxxx

KEEP OUT OF REACH OF CHILDREN

Warning/Aviso

Si usted no entiende la etiqueta, busque a alguien para que se la explique, a usted detalle. (If you do not understand the label, find someone to explain it to you in detail.)

First Aid	
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 further treatment advice.
If Swallowed:	<ul style="list-style-type: none"> Call poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by the poison control center or doctor. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.
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 mouth-to-mouth, if possible. Call 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 further treatment advice.

NOTE TO PHYSICIAN

Recommendations for Medical Treatment for Abamectin B₁ Acute Toxicity: Early signs of intoxication include dilation of pupils, muscular incoordination, tremors, and ataxia (unsteadiness). Toxicity following accidental ingestion of the concentrate can be minimized by including vomiting within one-half hour of exposure.

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) 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 Abamectin B₁ 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 B₁ exposure.

HOT LINE NUMBER

Have the product container label with you when calling a poison control center or doctor or going for treatment. For 24-hour medical emergency assistance (human or animal) call 1-800-222-1222.

Manufactured for:

RedEagle International LLC
3130 Highlands by the Lake Way, Lakeland, FL 33812

NET CONTENTS: 1 Quart

PRECAUTIONARY STATEMENTS

Hazardous to Humans and Domestic Animals

WARNING/AVISO

Causes substantial but temporary eye injury. Harmful if swallowed. Harmful if inhaled. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear protective eyewear (goggles or face shield). Do not get in eyes, on skin, or on clothing. Do not breathe 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.

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

Personal Protective Equipment

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

Applicators and other handlers must wear:

- Coveralls worn over short-sleeved shirt and short pants
- Chemical-resistant gloves - EPA chemical resistance category B (e.g. 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, 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 wash water 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.

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 on 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 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 - EPA chemical resistance category B (e.g. barrier laminate or butyl rubber ≥ 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 REENTER TREATED AREAS UNTIL SPRAYS HAVE DRIED.

Abamectin 2% Ornamental is an emulsifiable concentrate which when mixed with water according to the directions for use will control leafminers and mites and suppress whiteflies, thrips and aphids on ornamentals.

Mix with sufficient water and apply as a foliar spray to obtain uniform coverage.

For mites: Apply when mites first appear and repeat as necessary to maintain control.

For leafminers: Apply as needed and repeat at 7-day intervals or as necessary to maintain control.

For suppression of aphids, thrips and whiteflies: Apply when young, immature stages of these pests are first observed and repeat every 7 days for two or three weeks. After which time, rotate to other products that have different modes of action than Abamectin 2% Ornamental for at least two to

three weeks. Refer to the Resistance Management section for additional comments of rotation. Aphids, thrips and whiteflies are killed by direct contact with the Abamectin 2% Ornamental spray.

Residual control of pests may be enhanced with the addition of a horticultural spray oil at 0.5 to 1.0% of the spray volume on field-grown woody ornamentals, landscape plants and Christmas trees. Repeat application as necessary, but no sooner than 7 days to maintain control. Some plants are sensitive to oils and so without prior experience the user should spray a small number of plants and observe plants for two weeks before spraying the remaining plants. Excessive cold or warm temperatures may increase the chance of plant damage following application with oils. Carefully read and follow directions on the oil label and do not exceed maximum rates listed on either label.

Abamectin 2% Ornamental can be used on the following:

Shadehouse, Greenhouse, Field-Grown Ornamentals, Foliage Plants, Christmas Trees, and Other Woody Ornamentals

Pests	fl. oz. Abamectin 2% Ornamental /100 gals.	Additional Instructions
European Red Mite Two-Spotted Spider Mite Carmine Spider Mite Southern Red Mite Spruce Spider Mite	4	Apply, for example, in 200-400 gals. water per acre. In volumes of water below 200 gals., use a minimum of 8 fl. oz. per acre. If more than 400 gals. of water is required for good plant coverage, apply a maximum rate of 16 fl. oz. per acre. For example, if 650 gals. of water is required, use 2.5 fl. oz. per 100 gals.
Tarsonemid Mites: Cyclamen Mites Broad Mites	4	Repeat applications to newly developing tissue to maintain control.
Eriophyid Mites: Rust Mites Bud Mites	4	--
<i>Liriomyza</i> Leafminers	8	Repeat at 7-day intervals or as necessary to maintain control. Apply, for example, in 100-200 gals. of water per acre. In volumes of water below 100 gals. use a minimum of 8 fl. oz. per acre. If more than 200 gals. of water per acre is required for good plant coverage, apply the maximum rate of 16 fl. oz. per acre. For example, if 400 gals. of water is required, use 4 fl. oz. per 100 gals.
Boxwood Leafminer	8	For control of mining larvae, make the application when adults are beginning to lay eggs in the new foliage.
Aphids, Thrips, and Whiteflies	8	For suppression of pest populations, young immatures must be contacted by the spray.
Application Instructions <ul style="list-style-type: none"> - Do not apply less than 8 fl. oz. or more than 16 fl. oz. per acre. - Use sufficient water to obtain uniform plant coverage. - Refer to the Resistance Management and Restrictions sections for additional information. 		

Use Restrictions

- Do not apply this product through any type of irrigation system.
- Not for aerial application.
- Do not use in citrus nurseries.
- Do not use for suppression of aphids, whiteflies, and thrips on roses, chrysanthemums, and gerbers. These ornamentals are primary hosts of mites and *Liriomyza* leafminers for which Abamectin 2% Ornamental applications should be targeted. Additional applications of Abamectin 2% Ornamental to suppress aphids, thrips, and whiteflies on these plants will increase the selection pressure on mites and *Liriomyza* leafminers, which may result in greater tolerance to Abamectin 2% Ornamental among these pests.
- Abamectin 2% Ornamental has been evaluated for phytotoxicity on a wide range of ornamental plants. However, since all combinations or sequences of pesticide sprays including surfactants and adjuvants have not been tested, it is recommended that a small area be sprayed first to make certain that no phytotoxicity occurs. Phytotoxicity has been observed following the use of Abamectin 2% Ornamental on certain species of ferns (e.g. *Adiantum* spp.) and Shasta Daisy (*L. Eucanthemum* spp.) Therefore, it is recommended that Abamectin 2% Ornamental NOT be used on ferns or Shasta Daisy.

Resistance Management

Treatment may not be effective against these pests if Abamectin 2% Ornamental-tolerant strains develop. Therefore, when applying Abamectin 2% Ornamental to plants that are hosts of labeled pests with multiple generations per crop or year, resistance management strategies must be used. Such strategies may include, but are not limited to, rotation of products with different modes of action, avoid treatment of successive generations with the same product, use of labeled rates at specified spray intervals, non-chemical alternatives such as beneficial arthropods, rotation of susceptible to non-susceptible plants and various cultural practices. For additional information on the implementation of these or other resistance management strategies, consult with your State Cooperative Extension Service.

To manage susceptibility in *Liriomyza* leafminer species, apply a maximum of three applications of Abamectin 2% Ornamental and then rotate to Citation® for a maximum of three applications, before rotating back to Abamectin 2% Ornamental or using another product. The rotation between these two products with different modes of action should be based on the generation time of *Liriomyza* species to avoid applying Abamectin 2% Ornamental to successive generations.

STORAGE AND DISPOSAL

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

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

Prohibitions: Open dumping is prohibited. Do not reuse empty container.

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. 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. Offer for recycling, if available.

SPILLS: For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

Notice: Read the entire Directions for Use and Conditions for Sale and Limitation of 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 this product, which are beyond the control of RedEagle International LLC, or Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer and User, and Buyer and User agree to hold RedEagle International LLC and Seller harmless for any claims to such factors.

RedEagle International LLC 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. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or RedEagle International LLC, and Buyer and User assume the risk of any such use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, REDEAGLE INTERNATIONAL LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPENSES OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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