


72167-42

10/20/2004

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	U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505C) 1200 Pennsylvania Ave., NW Washington, D.C. 20460	EPA Reg. Number: 72167-42	Date of 10/21/04
		Term of Issuance: Conditional	
		Name of Pesticide Product: Abamectin 0.15 EC TNO	

NOTICE OF PESTICIDE:
☒ **Registration**
☐ **Reregistration**
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):
**J. Steve Lovell
Nations Ag II, LLC
4680 Monticello Avenue 18i-174
Williamsburg, VA 23188**

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 Notice of Conditional Pesticide Registration corrects the Notice of Conditional Pesticide Registration issued on 10/20/04 by inserting deadlines for the two required studies (see item 3 in the list of conditions); the effective date of this conditional registration remains 10/20/04.



This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data.
2. Make the following label changes before you release the product for shipment:
 - a. Revise the EPA Registration Number to read, "EPA Reg. No. 72167-42."
3. Submit studies to support the following data gaps. Each study must be submitted to the Agency within 18 months measured from the effective date of this registration.
 - one year storage stability (830.6317)
 - corrosion characteristics (830.6320)
4. Submit two copies of the revised final printed label for the record before you release the product for shipment.

If any of 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 copy of the label stamped "accepted with comments" is enclosed for your records.

Signature of Approving Official:  Thomas C. Harris, Biologist Insecticide-Rodenticide Branch Registration Division (7504C)	Date: 10/21/04
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		Term of Issuance: Conditional	
		Name of Pesticide Product: Abamectin 0.15 EC TNO	
<p align="center">NOTICE OF PESTICIDE:</p> <p align="center"><input checked="" type="checkbox"/> Registration <input type="checkbox"/> Reregistration</p> <p>(under FIFRA, as amended)</p>			
<p>Name and Address of Registrant (include ZIP Code):</p> <p>J. Steve Lovell Nations Ag II, LLC 4680 Monticello Avenue 18i-174 Williamsburg, VA 23188</p>			
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<p>This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:</p> <ol style="list-style-type: none"> 1. Submit and/or cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data. 2. Make the following label changes before you release the product for shipment: <ol style="list-style-type: none"> a. Revise the EPA Registration Number to read, "EPA Reg. No. 72167-42." 3. Submit studies to support the following data gaps: <ul style="list-style-type: none"> one year storage stability (830.6317) corrosion characteristics (830.6320) 4. Submit two copies of the revised final printed label for the record before you release the product for shipment. <p>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.</p> <p>A copy of the label stamped "accepted with comments" is enclosed for your records.</p>			
<p>Signature of Approving Official:</p> <p align="center"></p> <p>Thomas C. Harris, Biologist Insecticide-Rodenticide Branch Registration Division (7504C)</p>		<p>Date:</p> <p align="center">10/20/04</p>	

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ACCEPTED
with COMMENTS
In EPA Letter Dated:
OCT 20 2004

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
72167-42

Abamectin 0.15 EC TNO

MITICIDE/INSECTICIDE

For Agricultural/Commercial Use To Control Leafminers and Mites & To Suppress Aphids,
Whiteflies and Thrips on Ornamental Plants.

ACTIVE INGREDIENT:

Abamectin (CAS No. 65195-56-4 and 65195-55-3):..... 1.9 %

INERT INGREDIENTS:..... 98.1 %

TOTAL: 100.0 %

EPA Reg. No. 72167-~~42~~ 42

EPA Est. No.

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.) See additional Precautionary Statements and Directions For Use inside booklet.

First Aid

If swallowed

- 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

- 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 immediately for treatment advice.

If on skin or clothing

- Take off contaminated clothing.
- Rinse skin immediately with plenty of soap and water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

If inhaled

- 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 a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN

- Early signs of intoxication include mydriasis (dilated pupils), ataxia (unsteadiness), and muscle tremors. Toxicity follows accidental ingestion of *Abamectin 0.15 EC TNO* and can be minimized by promptly administering 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 parental fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and 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 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

For 24-Hour Medical Emergency Assistance - Call 1-800-308-5391

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS:

WARNING: May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes. Harmful if absorbed through skin or inhaled. Avoid contact with skin or clothing. 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-resistance 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 respirator (MSHA/NIOSH approval prefix number TC-21C, or a 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.

Use of this product may pose a risk to threatened and endangered species of fish, amphibians, crustaceans (including fresh water shrimp), and insects. All use of this product in the state of California should comply with the recommendations of the California Endangered Species Project. Before using this product in California, consult with your county agriculture commissioner to determine use limitations that apply in your area.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

NOTICE: 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 Abamectin 0.15 EC TNO through any type of irrigation system. 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.**

Personal Protective Equipment (PPE)

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 ≥ 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 (WPS) 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.

For Use on Greenhouse-, Shadehouse-, and Field-Grown Ornamentals, Foliage Plants, Christmas Trees, and other Woody Ornamentals.

Abamectin 0.15 EC TNO is an emulsifiable concentrate containing 0.15 lb. abamectin per gallon. When mixed with water according to the directions for use, *Abamectin 0.15 EC TNO* will control mites and leafminers, and suppress thrips, aphids, and whiteflies on the following ornamental plants: Greenhouse-, shadehouse- and field-grown ornamentals; foliage plants; Christmas trees and other woody ornamentals.

To control mites, apply *Abamectin 0.15 EC TNO* when mites initially appear, then repeat as needed to maintain control. To control leafminers, apply *Abamectin 0.15 EC TNO* and repeat every 7 days or as needed to maintain control.

To suppress whiteflies, thrips, and aphids, apply *Abamectin 0.15 EC TNO* when the young/immature stages of these pests are first seen, then repeat once per week for 2-3 weeks. Then rotate to other registered insecticides having a different mode of action for a minimum of 2-3 weeks before reverting to *Abamectin 0.15 EC TNO*. Please see the **Resistance Management** section of this label for additional information regarding rotating products. Note: For *Abamectin 0.15 EC TNO* to kill aphids, whiteflies, and thrips, it must come in direct contact with the pests.

To obtain uniform coverage, mix *Abamectin 0.15 EC TNO* with sufficient water and apply as a foliar spray. Residual control of pests can be improved on field-grown woody ornamentals, Christmas trees, and landscape plants by adding a Horticultural Spray Oil (not dormant oil) at 2-4 qts/100 gals finished spray (equivalent to 0.5-1.0% of spray volume). To maintain control, repeat application of *Abamectin 0.15 EC TNO* as necessary, but not sooner than 7 days after previous application. Some plants are sensitive to oils. Therefore, unless prior experience has shown plant safety, the user should apply an *Abamectin 0.15 EC TNO* plus Horticultural Spray Oil mixture on a small number of plants and observe them for two weeks. If no plant damage is observed, then spray the remaining plants. Excessively warm or cold temperatures following treatment in combination with oils could increase the chances of plant damage. Read and follow label directions for both *Abamectin 0.15 EC TNO* and any Horticultural Spray Oil product to be used, and do not exceed the maximum rates detailed on either label.

Do not apply *Abamectin 0.15 EC TNO* in quantities less than 8 fl. oz. per acre or more than 16 fl. oz. per acre per application. Use a sufficient quantity of water to obtain thorough coverage on foliage. Review the **Resistance Management** and **Restrictions** sections (below) for additional guidance.

Greenhouse-, Shadehouse-, and Field-Grown Ornamentals, Foliage Plants, Christmas Trees, and other Woody Ornamentals		
Pests	Amount of <i>Abamectin 0.15 EC TNO</i> Fl. oz./100 gallons water	Notes
Mites: European Red Mite Two-spotted Spider Mite Carmine Spider Mite Southern Red Mite Spruce Spider Mite Tarsonemid Mites: Cyclamen & Broad Mites Eriophyid Mites: Rust and Bud Mites	4 ^a	For tarsonemid mites, multiple applications to newly developing tissue may be needed to maintain effective control.
Boxwood Leafminer	8	To control mining larvae, apply when adults begin to lay eggs onto new foliage.
<i>Liriomyza</i> Leafminers	8 ^b	Repeat at intervals of 7 days or as needed to maintain effective control.
Aphids, Thrips, & Whiteflies	8	Spray must contact young immatures.

^aFor example, apply in 200 – 400 gallons of water per acre. If water volume is less than 200 gals, use a minimum of 8 fl. oz. per acre. If water volume of 400 gals. or more per acre is required for sufficient plant coverage apply at the maximum rate of 16 fl. oz. per acre. Another example: if a volume of 650 gals. of water is necessary, use 2.5 fl. oz. per 100 gals.

^bFor example, apply in 100-200 gals. of water per acre. If water volume is less than 100 gals, use at least 8 fl. oz. per acre. If water volume of 200 gals. or more per acre is required for sufficient plant coverage, apply the maximum rate of 16 fl. oz. per acre. Another example: if 400 gals. of water is necessary, apply 4 fl. oz. per 100 gallons.

Use Restrictions

- Do not apply by air.
- Do not use *Abamectin 0.15 EC TNO* for suppressing thrips, whiteflies and aphids on gerbera, chrysanthemums, and roses, which are primary hosts of *Liriomyza* leafminers and mites controlled by *Abamectin 0.15 EC TNO*. Additional applications of *Abamectin 0.15 EC TNO* on these plants will increase the selection pressure on mites and *Liriomyza* leafminers, which could produce greater pest tolerance (resistance) to *Abamectin 0.15 EC TNO*.
- Do not use *Abamectin 0.15 EC TNO* in citrus nurseries.
- Do not use *Abamectin 0.15 EC TNO* on ferns or Shasta Daisy, since phytotoxicity may occur on certain species of ferns (e.g., *Adiantum* spp.) and Shasta Daisy (*L. eucanthemum* spp.).
- Do not apply through any type of irrigation system.

Abamectin 0.15 EC TNO is non-phytotoxic 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.

Resistance Management

To minimize potential development of pest resistance to abamectin, use of resistance management strategies is imperative, especially when applying *Abamectin 0.15 EC TNO* to ornamental plants that are hosts of pests on this label that have multiple generations per crop or per year. Examples of resistance management may include but are not limited to the following: use of various cultural practices; nonchemical alternatives (such as beneficial arthropods); rotating susceptible and nonsusceptible plants; rotating pesticides with different modes of action; avoiding use of the same product on successive pest generations; and using labeled rates at specified spray intervals. Consult your State Cooperative Extension Service to obtain additional information regarding the implementation of these or other resistance management strategies.

For managing susceptibility in *Liriomyza* leafminers, apply *Abamectin 0.15 EC TNO* no more than three times, then apply a registered alternative product with a different mode of action for no more than three times before rotating back to *Abamectin 0.15 EC TNO* or another alternative product. Product rotation intervals should be based on the generation time of *Liriomyza* leafminers to avoid applying *Abamectin 0.15 EC TNO* to successive generations.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

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: Triple rinse (or equivalent) and dispose of in an incinerator or landfill approved for pesticide containers.

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.

In the event of a major spill, fire, or other emergency, call 1-800-424-9300.

IMPORTANT INFORMATION—READ BEFORE USING PRODUCT

IMPORTANT: Read the information below before using this product. If the terms are not acceptable, you should return the unopened product container immediately for a complete refund.

WARRANTY LIMITATIONS AND DISCLAIMER

Upon purchase or use of this product, purchaser and user agree to the following terms:

Warranty: Nations Ag II, LLC, (the Company) warrants that this product conforms to the chemical description on the label in all material respects and is reasonably fit for the purpose referred to in the directions for use, subject to the exceptions noted below, which are beyond the Company's control. The Company makes no other representation or warranty, express or implied, concerning the product, including no implied warranty of merchantability or fitness for a particular purpose; no such warranty shall be implied by law, and no agent or representative is authorized to make any such warranty on the Company's behalf.

Terms of Sale: The Company's directions for use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, and the manner of use or application (including failure to adhere to label directions), all of which are beyond the Company's control. All such risks are assumed by the user.

Limitation of Liability: The exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damages, and in no event shall damages or any other recovery of any kind exceed the price of the product which caused the alleged loss, damage, injury or other claim. Under no circumstances shall the Company be liable for any special, indirect incidental or consequential damages of any kind, including loss of profits or income, and any such claims are hereby waived. Some states do not allow the exclusion or limitation of incidental or consequential damages.

The Company and the seller offer this product, and the purchaser and user accept this product, subject to the foregoing warranty, terms of sale and limitation of liability, which may be varied or modified only by an agreement in writing signed on behalf of the Company by an authorized representative.

Product usage questions? Call 800-979-8994.

Nations Ag II, L.L.C
2901-12 Rivendell
Knoxville, TN 37922

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