

84229-1

02/28/2008

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**U.S. ENVIRONMENTAL PROTECTION AGENCY**  
**Office of Pesticide Programs**  
**Registration Division (7505C)**  
**Ariel Rios Building**  
**1200 Pennsylvania Ave., NW**  
**Washington, D.C. 20460**

EPA Reg  
 Number:  
 84229-1

Date of Issuance:  
 Feb 28, 2008

**NOTICE OF PESTICIDE:**

Registration  
 Reregistration  
 (under FIFRA, as amended)

Term of Issuance: conditional

Name of Pesticide Product:  
 Tide Aba 0.15EC T&O  
 Insecticide/Miticide

Name and Address of Registrant (include ZIP Code):

Tide International, USA, Inc.  
 c/o Pyxis Regulatory Consulting, Inc.  
 4116 136th St., NW  
 Gig Harbor, WA 98332

**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 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) and (B) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Per the indicated EPA Guidelines, submit the following within 18 months measured from the effective date of this registration.
  - a. one year storage stability (830.6317)
  - b. corrosion characteristics (830.6320)
3. Make the following label changes before you release the product for shipment:
  - a. Revise the EPA Registration Number to read, "EPA Reg. No. 84229-1."
4. 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 stamped "accepted with comments" is enclosed for your records.

Signature of Approving Official:

*TSI*

Thomas C. Harris  
 Biologist  
 Insecticide Rodenticide Branch  
 Registration Division (7505P)

Date:

FEB 28 2008

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ACCEPTED  
with COMMENTS  
in EPA Letter Dated:  
2/28/2008  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
As amended, for the pesticide  
Registered under EPA Reg. No.  
84229-1

# Tide Aba 0.15 EC T&O

Miticide/Insecticide

For use on ornamental plants to control leafminers and mites and to suppress aphids, whiteflies and thrips.

Recommended for Agricultural/Commercial Use.

**ACTIVE INGREDIENT:**

Abamectin:..... 1.9 %

**OTHER INGREDIENTS:**..... 98.1 %

**TOTAL:**..... 100.0 %

Tide Aba 0.15 EC contains 0.15 lbs active ingredient per gallon.

## 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	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<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 the 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 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
HOTLINE 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 Chemtrec at 1-800-424-9300 for emergency medical treatment information.	
NOTE TO PHYSICIAN	
Early signs of intoxication include dilation of pupils, muscular incoordination, and muscular 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 parental 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.

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.

EPA Reg. No. 84229-R  
EPA Est. No.

Manufactured for:  
Tide International USA Inc.  
21 Hubble  
Irvine, CA 92618

**Net Contents:**

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

Causes substantial but temporary eye injury. Do not get in eyes. Harmful if absorbed through skin or if swallowed. Avoid contact with skin or clothing. 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**

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

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Socks and shoes.
- Chemical-resistant gloves (such as barrier laminate, nitrile rubber, neoprene rubber, viton).
- Protective eyewear.

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 apply when weather conditions favor drift from target areas. Do not contaminate water when disposing of equipment wash water or rinsate.

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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**

Combustible: 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.

**IMPORTANT – READ BEFORE USE**

Read the entire Directions for Use, Limited Warranty and Disclaimer 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 warranty disclaimer, inherent risks of use and limitation of remedies.

**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 – EPA chemical-resistance category E (e.g., barrier laminate, nitrile rubber, neoprene rubber; viton).
- Chemical-resistant shoes and socks.
- Protective eyewear.

**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.**

**FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR INSECT CONTROL, AND/OR ILLEGAL RESIDUES.**

## GENERAL INFORMATION

Tide Aba 0.15 EC is an EC formulation which is meant to be diluted with water prior to use. Tide Aba 0.15 EC controls leafminers and mites and suppresses whiteflies, thrips and aphids on the ornamental species listed on this label.

### Resistance Management

Tide Aba 0.15 EC is an insecticide/miticide and some target pests may develop resistance to Tide Aba 0.15 EC treatments. Use resistance management practices when using Tide Aba 0.15 EC on plants that are hosts of labeled pests that have more than one generations per crop or year. Typical strategies include, but are not limited to, rotation to other insecticides with different modes of action, treatment of successive generations with different products, applications made at specified label rates and at specified spray intervals, and the use of non-chemical alternatives (for example, beneficial arthropods or rotation of susceptible to non-susceptible plants). Contact your State Cooperative Extension Service for additional information on these or other resistance management strategies.

To manage susceptibility in *Liriomyza* leafminer species, make up to three applications of Tide Aba 0.15 EC and then rotate to Citation<sup>®</sup> Insecticide (which contains the active ingredient cyromazine) for no more than three applications before rotating back to Tide Aba 0.15 EC or using another insecticide. Alternating between these two products which have different modes of action should be based on the generation of *Liriomyza* species to avoid applying Tide Aba 0.15 EC to successive generations.

### Plant Tolerance

Although Tide Aba 0.15 EC has been tested for tolerance on a variety of ornamental plants, it is not possible to test Tide Aba 0.15 EC under all application conditions, such as when Tide Aba 0.15 EC is applied with combination products or with surfactants or adjuvants. Test a small area of plants for phytotoxicity to Tide Aba 0.15 EC before making applications to large blocks of plants.

Phytotoxicity has been observed after the use of Tide Aba 0.15 EC on certain species of ferns (e.g., *Adiantum* spp.) and Shasta Daisy (*L. eucanthemum* spp.). Tide International USA does not recommend the use of Tide Aba 0.15 EC on ferns or Shasta Daisy.

### Restrictions

- Do not use Tide Aba 0.15 EC for suppression of aphids, whiteflies, and thrips on roses, chrysanthemums, and gerbera. These ornamentals are primary hosts of mites and *Liriomyza* leafminers and Tide Aba 0.15 EC applications should target these insect pests. Additional applications of Tide Aba 0.15 EC 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 of these pests to Tide Aba 0.15 EC.
- Do not apply this product through any type of irrigation system.
- Do not apply by air.
- Do not use in citrus nurseries.
- Do not apply less than 8.0 fl. oz. or more than 16 fl. oz. per acre.

## ORNAMENTALS - CROP USE DIRECTIONS

### TARGET CROPS

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

### GENERAL APPLICATION DIRECTIONS

Mix Tide Aba 0.15 EC with a sufficient amount of water. Make applications as a foliar spray and ensure crops receive a thorough, uniform coverage.

**Horticultural Spray Oils:** For enhanced residual control of target pests on field-grown woody ornamentals, landscape plants, and Christmas trees, add a horticultural spray oil to the Aba 0.15 EC spray mix at 0.5 to 1.0% of the spray volume. To maintain control, make repeat applications as necessary at 7 days intervals. Some plants may be sensitive to these oils. Test a small area of plants for phytotoxicity to Tide Aba 0.15 EC mixed with horticultural spray oil. Evaluate the plants after 2 weeks before applying Aba 0.15 EC mixed with oils on a large number of plants. In addition, plant damage from treatment with such mixtures may be increased if the temperatures are very cold or very warm. Read and follow directions on the spray oil label. Do not exceed the maximum rates listed on the label.

**Pests Controlled at 4 fl. oz. Tide Aba 0.15 EC/100 gallons:**

Mites including European Red Mite, Twospotted Spider Mite, Carmine Spider Mite, Southern Red Mite, Spruce Spider Mite, Tarsonemid Mites (Cyclamen and Broad Mites), Eriophyid Mites (Rust and Bud Mites)

**Application Instructions:** Make applications of Tide Aba 0.15 EC in 200 to 400 gallons of water per Acre. For thorough coverage of plants, more than 400 gal. of water per Acre may be required.

- Use at least 8 fl. oz. per Acre if using less than 200 gals.
- Use no more than 16 fl. oz. per Acre in 400 or more gal. of water (that is, add 2.5 fl. oz. Tide Aba 0.15 EC per 100 gals. if total spray volume is 650 gals.).
- Apply when mites first appear. Make repeat applications as necessary to maintain control.
- For Tarsonemid mites, make repeat applications to newly developing tissue to maintain control.

**Pests Controlled at 8 fl. oz. Tide Aba 0.15 EC/100 gallons:**

*Liriomyza* Leafminers, Boxwood Leafminer

**Application Instructions:** Make applications of Tide Aba 0.15 EC in 100 to 200 gallons of water per Acre. For thorough coverage of plants, more than 400 gal. of water per Acre may be required.

- Use at least 8 fl. oz. per Acre if using less than 100 gals.
- Use no more than 16 fl. oz. per Acre in 200 or more gal. of water (that is, add 4 fl. oz. Tide Aba 0.15 EC per 100 gals. if total spray volume is 400 gals.).
- For leafminers, apply as needed. Make repeat applications at 7-day intervals or as necessary to maintain control.
- For control of mining larvae (Boxwood leafminers), apply Tide Aba 0.15 EC when adults are beginning to lay eggs in the new foliage.

**Pests Suppressed at 8 fl. oz. Tide Aba 0.15 EC/100 gallons:**

Aphids, Thrips, Whiteflies

**Application Instructions:** Make applications of Tide Aba 0.15 EC in 200 to 400 gallons of water per Acre. For thorough coverage of plants, more than 400 gal. of water per Acre may be required.

- Use at least 8 fl. oz. per Acre if using less than 200 gals.
- Use no more than 16 fl. oz. per Acre in 400 or more gal. of water (that is, add 2.5 fl. oz. Tide Aba 0.15 EC per 100 gals. if total spray volume is 650 gals.).
- Make applications of Tide Aba 0.15 EC when young, immature stages of these pests are first observed.
- Make repeat applications every 7 days for 2 or 3 weeks. Then, alternate to another insecticide that has a different mode of action than Tide Aba 0.15 EC. Read the Resistance Management section for additional information on insecticide rotation.
- Aphids, thrips, and whiteflies are killed by direct contact with the Tide Aba 0.15 EC spray.

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#### **STORAGE AND DISPOSAL**

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

##### **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. Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

##### **Container Disposal**

Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures allowed by State or local authorities.

#### **LIMITED WARRANTY AND DISCLAIMER**

Tide International USA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below.

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such use or the results to be obtained if not used in accordance with printed directions and established safe practice. To the extent consistent with applicable law, buyer's exclusive remedy and manufacturer's or seller's exclusive liability for any and all claims, losses, damages or injuries resulting from the use or handling of this product, whether or not based in contract, negligence, strict liability in tort or otherwise shall be limited, at the manufacturer's option to replacement of, or the repayment of the purchase price for, the quantity of product with respect to which damages are claimed.

##### **Inherent Risks of Use**

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Tide International USA or the seller. All such risks shall be assumed by buyer.

##### **Terms and Conditions of Use**

If terms of the Limited Warranty & Disclaimer and Inherent Risks of Use are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer and Inherent Risks of Use.

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