

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

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Michael Kellog Agent for Tide International, USA, Inc. Pyris Regulatory Consulting, Inc. 4110 136th St. N.W. Gig Harbor, WA 98332

APR 9 2008 **NOTIFICATION**

المنتقاة من مادين

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4

Dear Mr. Kellog:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated March 24, 2008 for:

EPA Registration 84229-2

Tide Abama™ 0.15 EC Ag

Insecticide/Miticide

EPA Registration 84229-1

Tide AbamaTM 0.15 EC T&O

Insecticide/Miticide

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and finds that the label change(s) requested falls within the scope of PRN-2007-4. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

PYXIS REGULATORY CONSULTING, INC.

4110 136th St. NW Gig Harbor, WA 98332

Phone: 253-853-7369 Fax: 253-853-5516 www.PyxisRC.com

012

March 24, 2008

COURIER DELIVERY

Tom Harris (PM 7)
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

RE: Tide International USA, Inc. – Tide AbamaTM 0.15 EC Ag Insecticide/Miticide (EPA Reg. No. 84229-2)

Revision to Container Disposal Instructions per PRN 2007-4

Dear Mr. Harris,

On behalf of Tide International USA, Inc. please find the enclosed label notification revising the container disposal instructions per PRN 2007-4.

In support of this notification submission, we submit the following documents:

- 1. Completed Application for Registration (EPA Form 8570-1)
- 2. One (1) copy of the Tide AbamaTM 0.15 EC Ag Insecticide/Miticide labeling with changes tracked
- 3. One (1) copy of the Tide AbamaTM 0.15 EC Ag Insecticide/Miticide labeling with changes incorporated

Please feel free to contact me by phone (253) 853-7369 or by email at Mike@PyxisRC.com if you have any questions or need any additional information.

Sincerely

Michael Kellogg

Enclosures

cc: Der-I Wang; Tide International USA, Inc.

Form Approved, OMB No. 2070-0060, Please read instructions on reverse before completing form. Approval expires 2-28-95 **OPP Identifier Number** Registration **United States Environmental Protection Agency Amendment** Washington, DC 20460 Other Application for Pesticide - Section I 2. EPA Product Manager 1. Company/Product Number 3. Proposed Classification 84229-2 Tom Harris None Restricted PM# 4. Company/Product (Name) Tide International, USA, Inc./Tide Abama 0.15EC Ag Insecticide/Miticide\1-3 5. Name and Address of Applicant (Include ZIP Code) 6. Expedited Reveiw. In accordance with FIFRA Section 3(c)(3) "姑,满事! Tide International, USA, Inc. (b)(i), my product is similar or identical in composition and labeling c/o Pyxis Regulatory Consulting, Inc. 4110 136th St. NW EPA Reg. No. NOTIFICATION Gig Harbor, WA 98332 APR 09 2008 Check if this is a new address **Product Name** Section - II Final printed labels in repsonse to Amendment - Explain below. Agency letter dated "Me Too" Application. Resubmission in response to Agency letter dated Other - Explain below. Notification - Explain below. Explanation: Use additional page(s) if necessary. (For section I and Section II.) Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. Section - III girting. 1. Material This Product Will Be Packaged In: 4.44 Unit Packaging Water Soluble Packaging 2. Type of Container Child-Resistant Packaging A ... Yes Matal Yes Yes Plastic No No No Glass Paper If "Yes" If "Yes" No. per No. per * Certification must Package wgt Other (Specify) Unit Packaging wgt. container container be submitted 3. Location of Net Contents Information 4. Size(s) Retail Container 5. Location of Label Directions ./ 7 On Label 1 quart, 1 gallon On Labeling accompanying product Container 6. Manner in Which Label is Affixed to Product Other Lithograph Paper glued Stanciled Section - IV 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.) Title Telephone No. (Include Area Code) Name Michael Kellogg (253) 853-7369 Agent -6. Data Application Certification 4 Received. l certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. 🖔 l acknowledge that any knowlinglly false or misleading statement may be punishable by fine or imprisonment of രാഗം (Stamped) both under applicable law. 3. Title 2. Signature Agent, 15 4. Typed Name Michael Kellogg

RESTRICTED USE PESTICIDE

Toxic to Fish, Mammals and Aquatic Organisms

For retail sale to and use only by certified applicators or persons under their direct supervision, and only for those uses covered by the certified applicators certification.

Tide Abama[™] 0.15 EC Ag

Miticide/Insecticide

ACTIVE INGREDIENT:	: .		
Abamectin:	 4 7	 	1.9 %
OTHER INGREDIENTS:			
	 	The state of the s	100.0 %
	 (a)		

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

Warning Aviso

Si usted no entiende la etiqueta, busque a algiuen 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.

	I plant and the second
	FIRST AID
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 for treatment advice.
If	Call a poison control center or doctor immediately for treatment advice.
swallowed	Have person sip a glass of water if able to swallow.
	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.
lf on skin	Take off contaminated clothing.
or clothing:	Rinse skin immediately with plenty of 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 further treatment advice.
	HOTLINE NUMBER
Have the prov	duct container or label with you when calling a poison control center or doctor, or going

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.

NOTIFICATION

del SAFEA

APR 09 2008

har heate

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. 84229-2 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

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 Eron 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, nitrite 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.

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 country agriculture commissioner to determine use limitations that apply in your 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.

Jet Tolobustic in

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.

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

Abama 0.15 EC is an insecticide that will control certain insect pests. The product must be mixed with water and applied to labeled crops according to the specific crop use directions for effective control of these insects. For good mite and insect control, Abama 0.15 EC needs to be applied so that the foliage is thoroughly covered by the spray solution.

Phytotoxicity: Abama 0.15 EC has been tested for phytotoxicity and has been proven to be safe on a variety of crops. Abama 0.15 EC is also compatible with many commonly used pesticides, crop oils, and nutritional sprays. However, it is impossible to test all crop varieties and combination of spray mixtures under all possible growing conditions. Prior to mixing, users should test the compatibility of Abama 0.15 EC with any combination product using physical compatibility jar tests. Before applying Abama 0.15 EC and combination products to large areas of the crop, test small areas for phytotoxicity.

New York State Restriction: Do not apply Abama 0.15 EC by aerial application in New York State.

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

Spray Drift Precautions for Abama 0.15 EC Use on Celeriac, Cotton, Cucurbits, Fruiting Vegetables, Grapes, Hops, Leafy Vegetables, Potatoes, and Strawberries:

- Do not apply with ground application equipment within 25 ft. or with aircraft within 150 ft. of lakes, reservoirs, rivers, permanent streams, marshes, potholes, natural ponds, and estuaries, of commercial fish farm ponds.
- All aerial and ground application equipment must be properly calibrated, using appropriate carriers, and maintained. For aerial applications, mount the spray boom on the aircraft in a manner that minimizes drift caused by wing tip vortices. Use the minimum practical boom length but do not exceed 75% of wingspan or rotor diameter.
- Use the largest droplet size consistent with pest control. Minimize the formation of very small droplets by selecting appropriate nozzles, orienting nozzles away from the air stream as much as possible, and avoiding excessive spray boom pressure. Release the spray at the lowest height consistent with pest control and flight safety. Avoid application more than 10 ft. above the crop canopy.
- Make aerial or ground applications when wind velocity favors on-target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoiding applications when wind direction is toward the aquatic area can reduce risk of exposure to aquatic areas. Do not cultivate within 25 ft. (10 ft. for cotton) of the aquatic area to allow growth of a vegetative filter strip.
- Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore increase the likelihood of spray drifting to aquatic areas. Avoid spraying during conditions of low humidity and/or high temperature.
- Do not make aerial or ground applications during temperature inversions. Inversions are characterized by stable air and temperatures that increase with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

ลที่เการ์สเกา 3

開発 1位 10年 11年 11日 1986 - 1714 日 1878 - 1878 - 1878 - 1878 - 1878 - 1878 - 1878 - 1878 - 1878 - 1878 - 1878 - 1878 - 1878 - 1878 - 1878 - 1878

Resistance Management: Abama 0.15 EC contains the active ingredient abamectin. There are inherent risks of pests developing resistance to any product, therefore, it is strongly advised that Abama 0.15 EC be used in a sound resistance management program (including practices such as non-chemical alternatives (beneficial arthropods), rotation of Abama 0.15 EC with insecticides that have different modes of action, rotation of susceptible and non-susceptible plants, etc.). Once insect or mite-tolerant strains develop, Abama 0.15 EC will not be effective against labeled pests. In crops that have pests with multiple generations per crop per year, resistance management practices help reduce the risk of resistance development to Abama 0.15 EC. Additional information is available on implementation of these or other resistance management practices from your local agricultural advisor or company representative.

CROP USE DIRECTIONS

ALMONDS AND WALNUTS

Abama 0.15 EC will control the following pests in almonds and walnuts:

European red mite Pacific Spider mite Strawberry spider mite Twospotted spider mite

Rate of Abama 0.15	Directions for Application	Restrictions
EC		
For Dilute Sprays ^a : 2.5 – 5.0 fl.	Apply Abama 0.15 EC using conventional dilute or concentrate sprays using ground application	Do not apply by air.
oz./100 gals	equipment. Calibrate equipment prior to application to ensure sufficient water is used for	Do not apply Abama 0.15 EC without a horticultural spray oil
For Concentrate	thorough coverage. The size and number of	that is not a dormant oil (but
Sprays ^b : 10 – 20 fl. oz./A	trees per acre as well as foliage density will determine the gallons of spray required. Apply only in 40 gals. or more of water/A. Control of	one that is approved for use on almonds and walnuts).
PLUS	these mites/insects requires a thorough coverage of the spray solution on the tree	Do not apply more than 20 fl. oz Abama 0.15 EC per application,
A Horticultural Spray Oil that is not a	foliage, and residual spider mite control increases if sprays are made to younger leaves.	and no more than 40 fl. oz. per growing season.
dormant oil	Time Abama 0.15 EC applications to occur	Make only 2 applications per
For Dilute Sprays:	when spider mites first appear. Repeat	growing season 21 days or
0.25% or 1 gal./A	applications following the directions in the Restrictions column of this table.	more apart.
For Concentrate Sprays:		Do not allow livestock to graze in treated orchards.
Minimum of 1 gal./A		Preharvest Interval: 21 days

^a Dilute Spray Rate is based on a volume of 400 gals./A dilute spray.

Buffer Zone: To reduce the risk to aquatic organisms, maintain a 25-yard buffer zone around all water bodies containing aquatic life (streams, ponds, lakes, rivers, springs, irrigation canals containing water year-round, swamps, bogs and marshes).

^b Concentrate Spray Rate: determine the amount of Abama 0.15 EC required in a full cover dilute spray. Then use the same amount of product per acre in concentrate sprays that would be required for the dilute sprays to the same orchard/grove. Note that for small trees, the amount may be less than 10 fl. oz./A.

Abama 0.15 EC will control the following pests in almonds and walnuts:

European red mite McDaniel spider mite Tentiform leafminer Twospotted spider mite White apple leafhopper

Rate of Abama 0.15 EC	Directions for Application	Restrictions
For Dilute	Apply Abama 0.15 EC using conventional dilute	Do not apply by air.
Sprays ^a : 2.5 – 5.0 fl.	or concentrate sprays using ground application	
oz./100 gals	equipment. Calibrate equipment prior to	Reduced efficacy and/or
	application to ensure sufficient water is used for	residual control may occur if
For Concentrate	thorough coverage. The size and number of	Abama 0.15 EC is not applied
Sprays ^b : 10 - 20 fl.	trees per acre as well as foliage density will	I combination with a
oz./A	determine the gallons of spray required. Apply	horticultural spray oil (not a
	only in 40 gals, or more of water/A. Control of	dormant oil). Follow all
And add (for best	these mites/insects requires a thorough	directions on the spray oil
results)	coverage of the spray solution on the tree	label or in spray guides. Use
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	foliage.	caution when applying
A Horticultural Spray Oil	Tollago.	Abama 0.15 EC with a
that is not a dormant oil	Time Abama 0.15 EC applications to occur	horticultural spray oil or injury
	when spider mites first appear or when insect	may occur with certain apple
For Dilute Sprays:	thresholds are reached. Repeat applications	varieties (such as russetting
0.25% or 1 gal./A	following the directions in the Restrictions	on light-skinned Golden
0.25 % Of 1 gal.7A	column of this table. Spider Mites: Apply	Delicious apples). In some
For Concentrate Sprays:	before a threshold of 5 spider mites per leaf is	cases, phytotoxicity and crop
Minimum of 1 gal./A	reached. For residual spider mite control with	loss has been observed when
Willing Of T gail.7A	Abama 0.15 EC apply in combination with	Abama 0.15 EC plus a
	horticultural spray oil (not a dormant oil) to	horticultural spray oil was
	newer leaves of trees. Apply Abama 0.15 EC	applied less than 14 days
	for spider mite control from petal fall through 6	before or after a captan
	weeks following petal fall.	application.
	Tentiform leafminer: Apply onto eggs for	application.
	control of new hatches and to early sap-feeder	Do not apply more than 20 fl.
	stages of first and second-generation tentiform	oz. Abama 0.15 EC per
	leafminers when locally established thresholds	application, and no more than
	have been reached. Do not apply during	40 fl. oz. per growing season.
	bloom.	40 II. 02. per growing season.
	White Apple Leafhopper (Not for use west of	Make only 2 applications nor
	the Rocky Mountains): Apply Abama 0.15 EC	Make only 2 applications per growing season 21 days or
		more apart.
	only to the first generation of white apple leafhoppers, just after petal fall and in	inore apart.
	combination with horticultural spray oil (not a	Do not allow livestock to
	dormant oil).	graze in treated orchards.
	domanton).	graze in treated ordinards.
	· · · · · · · · · · · · · · · · · · ·	Preharvest Interval: 28 days
a Diluta Caray Bata is basa	ed on a volume of 400 gals./A dilute spray.	i Terrarvest milerval. 20 days

Dilute Spray Rate is based on a volume of 400 gals./A dilute spray.

Concentrate Spray Rate: determine the amount of Abama 0.15 EC required in a full cover dilute spray. Then use the same amount of product per acre in concentrate sprays that would be required for the dilute sprays to the same orchard/grove. Note that for small trees, the amount may be less than 10 fl. oz./A.

Spray Drift Precautions: Observe the following precautions when spraying in the vicinity of aquatic areas such as lakes, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farms:
--Spray last 3 rows upwind of aquatic areas using nozzles on one side only, with spray directed away from

aquatic areas

--Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove/orchard when spraying the outside row. Shut off nozzles when turning at ends of row and passing tree gaps in rows.

-- Do not apply Abama 0.15 EC when weather conditions favor drift to aquatic areas.

-Do not apply within 110 feet upwind of aquatic areas or when wind speed is above 8 miles per hour.

-- Do not apply during a temperature inversion.

AVOCADOS

Deal III

Abama 0.15 EC will control the following pests in avocados:

Avocado thrips (Scirtothrips perseae) Persea Mite (Oligonychus perseae)

Rate of Abama 0.15 EC	Directions for Application	Restrictions
	•	

10 - 20 fl. oz./A (Do NOT use less than 10 fl. oz. of Abama 0.15 EC/A)

And add (for best results):

a Horticultural Spray Oil that is not a dormant oil

Minimum of 1 to 4% v/v (Follow all directions on the spray oil label. Test small areas with oil concentrations greater than 2.0% before making applications to large areas.)

Apply Abama 0.15 EC using conventional dilute or concentrate sprays using ground or air application equipment. Although aerial application is permitted, best control of thrips is achieved with ground applications which provide better spray coverage. The user accepts all liability for thrip level and duration of control if Abama 0.15 EC is applied by air.

Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. The size and number of trees per acre as well as foliage density will determine the gallons of spray required. Apply only in 100 gals. or more of water/A by ground and 50 gals. of water by air application. [For ground applications where the spray volume is greater than 400 gals./A, use 2.5 fl. oz. Abama 0.15 EC per 100 gals. of water in combination with 1.0-4.0% of an NR (narrow range) 415 oil.] Control of these pests requires a thorough coverage of the spray solution on the tree foliage.

Time Abama 0.15 EC applications to occur when immature thrips first appear but before 5 or more immature thrips per leaf/fruit are detected. Repeat applications following the directions in the Restrictions column of this table.

Apply Abama 0.15 EC at 10-15 fl. oz/A for low (1-2 thrips per leaf/fruit) to moderate (3-4 thrips per leaf/fruit). Use the higher rate of 15-20 fl. oz./A for severe (more than 5 thrips per leaf/fruit) outbreaks. Apply Abama 0.15 EC in combination with a 1.0-4.0% NR 415 oil in combination with a Horticultural Spray Oil (not a dormant oil) which is approved for use on avocados.

gota en ós esta 1

Tal 15 fli type i

Do not apply more than 20 fl. oz Abama 0.15 EC per application, and no more than 40 fl. oz. per growing season.

Make only 2 applications per growing season 30 days or more apart.

Preharvest Interval: 14 days

CELERIAC (Apium graveollens)

Abama 0.15 EC will control the following pests in celeriac:

Twospotted spider mite

Rate of Abama 0.15 EC	Directions for Application	Restrictions
16.0 fl. oz./A	Apply Abama 0.15 EC using conventional dilute or concentrate sprays using ground application equipment.	Refer to the section on Spray Drift Precautions of this label. Do not apply by air.
	Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage of the crop foliage. Apply only in 20 gals: or more of water/A by ground application. Control of this mite requires a thorough coverage of the spray solution on the crop foliage.	Do not apply more than 16 fl. oz Abama 0.15 EC per application, and no more than 48 fl. oz. after transplanting. To prevent resistance, make only 2 sequential applications
	Time Abama 0.15 EC applications to occur when mites first appear. Repeat applications following the directions in the Restrictions column of this table.	per growing season 7 days or more apart. Preharvest Interval: 7 days
	Optimum results are obtained if Abama 0.15 EC is used in combination with a non-ionic surfactant.	

resultine continuity

CITRUS FRUIT CROP GROUP

Abama 0.15 EC will control the following pests in citrus (which includes but is not limited to citrus citron, citrus hybrids, citrus species (includes chironja, tangelo, tangor), grapefruit, kumquat, lemon, lime, mandarin (tangerine), sour orange, and sweet orange):

Asian citrus psylla Broad mite Citrus bud mite Citrus leafminer Citrus rust mite Citrus thrips Twospotted spider mite

Rate of Abama 0.15	Directions for Application	Restrictions
EC		. ***
For Dilute Sprays ^a : 1.0 – 2.0 fl.	Apply Abama 0.15 EC using conventional dilute or concentrate sprays using ground application	Do not apply by air.
oz./100 gals. for all insects (except Asian citrus psylla, citrus leafminers and citrus	equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage (outside coverage for Asian citrus psylla, citrus leafminer or citrus thrips).	Do not apply more than 40 fl. oz. Abama 0.15 EC per growing season.
thrips—use the concentrate spray rate)	The size and number of trees per acre as well as foliage density will determine the gallons of spray required	Do not apply more than 3 applications per growing season 30 days or more apart.
For Concentrate	Asian citrus psylla: Applications made in the	
Sprays ^{b, c} : 10 – 20 fl. oz./A for all listed insects/mites	spring, summer or fall should be directed at newly expanding foliage and will only control adults and nymphs present at the time of application.	To prevent pest resistance to Abama 0.15 EC, do not apply in citrus nurseries.
And add (for best results) a Horticultural Spray	Mites: Applications made in the spring, summer or fall should be made when mites first	Do not allow livestock to graze in treated orchards.
Oil that is not a dormant oil - 0.20% or	appear. Citrus bud mite: Time application to occur at "bud swell".	Preharvest Interval: 7 days
1 gal./A (see footnotes for additional rates) ^c	Citrus leafminer: Applications in the spring, summer or fall should be directed at newly	
	expanding foliage. Citrus thrips: Correct timing is required.	
	Apply after egg hatch has begun (typically, early to mid-hatch is best) but only the current generation will be controlled.	
a	gonoration will be controlled.	l—————————————————————————————————————

Dilute Spray Rate is based on a volume of 1,000 gals./A dilute spray.

^b Concentrate Spray Rate: determine the amount of Abama 0.15 EC that would be required in a full cover dilute spray.

जारत शिक्षका । -

dilute spray.

C For optimum control of **Asian citrus psylla**, **broad mites, citrus rust mites and citrus leafminers**, apply 150-300 gals spray mix per acre plus a minimum of 3 gal./A of a horticultural oil (not a dormant oil) and apply using ground equipment at 1 to 1.5 miles per hour. For optimum control of **citrus bud mite**, apply Abama 0.15 EC in a minimum of 500 gals. per acre plus a minimum of 2 qts. (0.5%) per acre of a horticultural oil (not a dormant oil). For optimum control of **citrus thrips**, use 100-250 gals. per acre spray mix for best coverage of outside foliage.

Spray Drift Precautions: Observe the following precautions when spraying in the vicinity of aquatic areas such as lakes, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farms: --Spray last 3 rows upwind of aquatic areas using nozzles on one side only, with spray directed away from aquatic areas

--Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove/orchard when spraying the outside row. Shut off nozzles when turning at ends of row and passing tree gaps in rows.

--Do not apply Abama 0.15 EC when weather conditions favor drift to aquatic areas.

-- Do not apply within 110 feet upwind of aquatic areas or when wind speed is above 8 miles per hour.

-- Do not apply during a temperature inversion.

COTTON - WEST OF THE MISSISSIPPI ONLY

Abama 0.15 EC will control the following pests in cotton (West of the Mississippi Only):

Carmine spider mites
Pacific spider mites
Strawberry spider mites
Twospotted spider mites

Rate of Abama 0.15	Directions for Application	Restrictions
EC		
Early season:	Calibrate equipment prior to application to ensure	Refer to the section on Spray
4 – 6 fl. oz./A	sufficient water is used for thorough coverage. Control of mites requires a thorough coverage of	Drift Precautions of this label.
Mid-season/Lay-by:	the spray solution on the crop foliage.	Do not apply through any
8 – 16 fl. oz./A		type of irrigation system.
	Early season: Apply Abama 0.15 EC when the	Do not apply Aboma 0.15 FC
	cotton is no taller than 10 inches. Apply only using ground application equipment. Do not apply	Do not apply Abama 0.15 EC east of the Mississippi River.
	less than 4 flaoz. Abama 0.15 EC per acre.)
		Do not apply more than 32 fl.
	Mid-season and lay-by: Use Abama 0.15 EC at	oz. Abama 0.15 EC per
	the specified rates 8 - 16 fl. oz./A) depending on the size of the plants and foliage density. Apply	growing season.
	using ground application or by air in fixed-wing	Make only 2 applications per
	aircraft or by helicopter. Apply by air in a	growing season 21 days or
	minimum of 5 gals, of water /A.	more apart.
	Time Abama 0.15 EC applications to occur when	Do not feed foliage to
	mites first appear. Repeat applications following	livestock; do not allow
·	the directions in the Restrictions column of this	livestock to graze treated
	table.	cotton.
		Preharvest Interval: 20 days

L. Var.

aption sand for t

CUCURBITS; CROP GROUP

Abama 0.15 EC will control the following pests in the Cucurbit Crop Group (which includes but is not limited to citron melon, cucumbers, gherkin, edible gourds (includes hyotan, cucuzza, hechima, Chinese okra); *Momordica* spp. (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); muskmelon, cantaloupe, pumpkin, summer squash, winter squash (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); and watermelon):

Spider mites Leafminers

Rate of Abama 0.15	Directions for Application	Restrictions
EC	en die der der der der der der der der der de	
8 – 16 fl. oz./A	Apply Abama 0.15 EC using ground or air application equipment. Although aerial application is permitted, best control of insect pests is achieved with ground applications which proved better spray coverage. The user accepts all liability for mite level and duration of control if Abama 0.15 EC is applied by air. Calibrate equipment prior to application to ensure sufficient water is used for thorough	Refer to the section on Spray Drift Precautions of this label. Do not apply Abama 0.15 EC by air in the State of New York. Do not apply more than 48 fl. oz Abama 0.15 EC per growing season.
	coverage. Control of these mites/insects requires a thorough coverage of the spray solution on the crop foliage.	Make only 2 sequential applications 7 days or more apart.
	Do not apply in less than 20 gals. of water/A by ground and in less than 5 gals. of water by air application. To ensure thorough spray coverage, use a greater spray volume for high pest pressure, dense crop canopies, and adverse application conditions (high temperatures).	Preharvest Interval: 7 days
	Time Abama 0.15 EC applications to occur when insects first appear. Use 8 – 12 fl. oz./A for low to moderate insect pressure use 16 fl. oz./A for heavy insect infestations. Repeat applications following the directions in the Restrictions column of this table.	

FRUITING VEGETABLE CROP GROUP

Abama 0.15 EC will control the following pests in the Fruiting Vegetable Crop Group (which includes but is not limited to tomato; eggplant; peppers (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper); and tomatillo):

Broad mite
Colorado potato beetle
Liriomyza leafminers
Spider mites
Thrips palmi
Tomato pinworm
Tomato russet mite
Potato psyllid (peppers only; provides suppression only)

Rate of Abama 0.15	Directions for Application	Restrictions
EC		

8 – 16 fl. oz./A (use the 16 fl. oz./A rate for tomato pinworm)

Note: Although Abama 0.15 EC can be used without a wetting agent, improved spreading and penetration for better insect control is achieved using a combination of Abama 0.15 EC and a surfactant: Nonionic type surfactants are recommended (not binder or stickertype surfactants).

Apply Abama 0.15 EC using ground or air application equipment. Although aerial application is permitted, best control of mites is achieved with ground applications which proved better spray coverage. The user accepts all liability for mite level and duration of control if Abama 0.15 EC is applied by air.

Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of these mites/insects requires a thorough coverage of the spray solution on the crop foliage.

Do not apply in less than 20 gals. of water/A by ground and in less than 5 gals. of water by air application. To ensure thorough spray coverage, use a greater spray volume for high pest pressure, dense crop canopies, and adverse application conditions (high temperatures).

Repeat applications following the directions in the Restrictions column of this table.

Mites and thrips: Apply when insects first appear using 8 fl. oz. for low to moderate insect populations and 16 fl. oz./A for heavy infestations.

Tomato pinworm: Make application when moth activity is first observed and not later than when larvae emerge. Apply using the 16 fl. oz./A rate. Colorado potato beetle: Apply 8 fl. oz. for low to moderate insect populations and 16 fl. oz./A for heavy infestations.

Potato psyllid (Peppers only): Abama 0.15 EC provides suppression only. Apply when insects first appear. Use 8 – 12 fl. oz. for low to moderate insect populations and 16 fl. oz./A for heavy infestations. Make sequential applications at 10-14 day intervals when heavy egg and nymph populations are found. Use of a spreading or penetration adjuvant or horticultural oil is recommended.

Refer to the section on Spray Drift Precautions of this label.

Do not apply Abama 0.15 EC by air in the State of New York.

Do not apply more than 48 fl. oz Abama 0.15 EC per growing season.

Make only 2 sequential applications 7 days or more apart.

To prevent insect resistance to Abama 0.15 EC, do not apply to fruiting vegetables grown for transplants.

Preharvest Interval: 7 days

GRAPES

Abama 0.15 EC will control the following pests in grapes:

Pacific spider mite
Twospotted spider mite
Western grapeleaf skeletonizer
Willamette spider mite.
Western grape leafhopper*
Varigated leafhopper*

*Abama 0.15 EC provides knock-down control only of these pests.

Rate of Abama 0.15	Directions for Application	Restrictions
EC		·
0 40.61 /0	Apply Ahoma 0.45 EQuaing ground application	Defects the section on Consul
8 – 16 fl. oz./A	Apply Abama 0.15 EC using ground application	Refer to the section on Spray
PLUS	equipment. Calibrate equipment prior to application	Drift Precautions of this label.
	to ensure sufficient water is used for thorough coverage. Control of these mites/insects requires a	Do not apply by air
a nonionic type surfactant is	thorough coverage of the spray solution on the crop	Do not apply by air.
recommended (not	foliage. Do not spray alternate rows: apply Abama	Do not apply more than 16 fl.
binder or sticker-	0.15 EC on both sides of the row to ensure	oz. per application or more
type surfactants).	maximum coverage of the crop.	than 32 fl. oz Abama 0.15 EC
type surfactants).	maximum coverage of the crop.	per growing season.
	Do not apply in less than 50 gals. of water/A by	per growing season.
	ground. If electro-static sprayers are used, the	Make only 2 applications per
	volume may be less than 50 gals./A but do not use	growing season. One repeat
	less than 5 gals. of water/A.	application may be applied 21
		day or more after the first
	Always use Abama 0.15 EC with a nonionic	application if needed to
	surfactant. This combination improves the wetting	maintain control.
	of leaves and provides an even coverage of spray.	
•	Not all combinations of nonionic surfactants and	Do not allow livestock to
	Abama 0.15 EC have been tested on every grapes	graze in treated vineyards.
	variety or all types of growing conditions. Before	
•	using a nonionic surfactant, carefully read and	Preharvest Interval: 28 days
!	follow the surfactant product's label.	
•	Apply when insects first appear using 8 - 12 fl. oz.	
	for low to moderate insect populations and 16 fl.	
	oz./A for heavy infestations. Repeat applications	
	following the directions in the Restrictions column of	
*	this toble	
	tins table.	
	Mites: time application to occur when mites are	
	first detected but before motiles exceed 5 per leaf.	·
	Western grapeleaf skeletonizer: Make application	
	when larvae appear. Best control is achieved if	
	application is made just after egg hatch.	
	Western grape leafhopper, Varigated leafhopper:	
	For knock-down control only, apply when pests first	
	appear.	

HERB CROP SUBGROUP (EXCEPT CHIVES)

Abama 0.15 EC will control the following pests in the Herb Crop Subgroup (except chives) (which includes but is not limited to basil; chamomile; catnip; coriander (leaf); dill weed; lavender; marigold; marjoram (*Oiganum* species); nasturtium; parsley (dried); rosemary; sage; summer and winter savory; tarragon; thyme; and wintergreen)

Liriomyza leafminers

the wetting of leaves and provide an even Control of leafminers requires a thorough coverage single cutting.	Rate of Abama 0.15 EC	Directions for Application	Restrictions
the foliage, use Abama 0.15 EC inc combination with a wetting agent, such as a nonionic surfactant. Use the low rate for low to moderate insect pressure and the higher rate for heavy insect pressure. Time application to occur when adult flies are first detected. Repeat applications following the directions in the Restrictions column of this table. applications per cropping season at the 8 fl. oz./A rate or more than 3 applications the 16 fl. oz./A rate Repeat applications may be made 7 days or more after the last application.	8 – 16 fl. oz./A Note: To improve the wetting of leaves and provide an even coverage of spray of the foliage, use Abama 0.15 EC inc combination with a wetting agent, such as a nonionic	concentrate ground application equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of leafminers requires a thorough coverage of the spray solution on the upper and lower leaves. Do not apply in less than 30 gals. of water/A by ground. Use the low rate for low to moderate insect pressure and the higher rate for heavy insect pressure. Time application to occur when adult flies are first detected. Repeat applications following the directions in the Restrictions column of this table. Not all combinations of nonionic surfactants and Abama 0.15 EC have been tested on every herb types and variety or under all types of growing conditions. Before using a nonionic surfactant, carefully read and follow the surfactant product's	Make only 2 applications per single cutting. Do not apply more than 6 applications per cropping season at the 8 fl. oz./A rate or more than 3 applications at the 16 fl. oz./A rate. Repeat applications may be made 7 days or more after

HOPS (EXCEPT IN CALIFORNIA)

Abama 0.15 EC will control the following pests in hops (not approved for use in California):

Twospotted spider mite

Rate of Abama 0.15	Directions for Application	Restrictions
EC		
8 – 16 fl. oz./A	Apply Abama 0.15 EC using ground application equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough	Refer to the section on Spray Drift Precautions of this label.
Note: Although Abama 0.15 EC can	coverage. Control of mites requires a thorough coverage of the spray solution on the upper and	Do not apply by air.
be used without a wetting agent,	lower leaves of the crop.	Make only 2 applications per season.
improved spreading and penetration for better insect control is achieved using a	The size and foliage density of plants will determine the gallons of spray required for thorough coverage. Use the same amount of Abama 0.15 EC for concentrate or dilute sprays. For plants 6 – 8 feet in	Do not apply more than 32 fl. oz./A per growing season.
combination of Abama 0.15 EC and a surfactant.	height (1/2 trellis growth), apply 8 – 16 fl. oz./A of Abama 0.15 EC in a minimum of 40 gals. of water per acre. For plants taller than 6-8 feet, do not use	Repeat applications may be made 21 days or more after the last application. To
Nonionic type surfactants are recommended (not	less than 16 fl. oz./A in a minimum of 100 gals. of water/A.	prevent insect resistance, use other miticides with different modes of action before
binder or sticker– type surfactants):	Time application to occur when mites are first detected. One repeat application may be made following the directions in the Restrictions column of	making a repeat application of Abama 0.15 EC.
	this table.	Do not allow livestock to graze in treated hop yards.
		Preharvest Interval: 28 days

LEAFY VEGETABLE CROP GROUP

Abama 0.15 EC will control the following pests in the Leafy Vegetable Crop Group (which includes but is not limited to celery, lettuce (head and leaf), amaranth (Chinese spinach), garden cress, upland cress, dandelion, endive, fennel, parsley, radicchio, rhubarb, spinach, and Swiss chard):

Carmine spider mite Liriomyza leafminers Twospotted spider mite

Rate of Abama 0.15	Directions for Application	Restrictions
EC		
Note: Although Abama 0.15 EC can be used without a wetting agent, improved spreading and penetration for better insect control is achieved using a combination of Abama 0.15 EC and a surfactant. Nonionic type surfactants are recommended (not binder or sticker— type surfactants).	Apply Abama 0.15 EC using ground or air application equipment. Although aerial application is permitted, best control of mites is achieved with ground applications which proved better spray coverage. The user accepts all liability for mite level and duration of control if Abama 0.15 EC is applied by air. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of these mites/insects requires a thorough coverage of the spray solution on the crop foliage. Do not apply in less than 20 gals. of water/A by ground and in less than 5 gals. of water by air application. To ensure thorough spray coverage, use a greater spray volume for high pest pressure, dense crop canopies, and adverse application conditions (high temperatures). Apply Abama 0.15 EC at 8 – 12 fl. oz./A for low to moderate insect populations and at 16 fl. oz./A for heavy infestations. Make repeat applications if needed to maintain control according to the Restrictions column of this table. Mites: Apply when insects first appear. Leafminers: Time application to occur when adult flies are first detected.	Refer to the section on Spray Drift Precautions of this label. Do not apply Abama 0.15 EC by air in the State of New York. Do not apply more than 48 fl. oz. Abama 0.15 EC per growing season. Make only 2 sequential applications 7 days or more apart. To prevent insect resistance to Abama 0.15 EC, do not apply to leafy vegetables grown for transplants. Preharvest Interval: 7 days

MINT (PEPPERMINT AND SPEARMINT)

Abama 0.15 EC will control the following pests in peppermint and spearmint:

Twospotted spider mite

Rate of Abama 0.15	Directions for Application	Restrictions
8 – 12 fl. oz./A	Apply Abama 0.15 EC using ground or air application equipment. Calibrate equipment prior to application to ensure sufficient water is used for	Do not apply Abama 0.15 EC by air in the State of New York.
Note: Although Abama 0.15 EC can be used without a wetting agent, improved spreading and penetration for	thorough coverage. Control of these mites/insects requires a thorough coverage of the spray solution on the crop foliage. Do not apply in less than 20 gals. of water/A by ground and in less than 5 gals. of water by air	Do not apply more than 12 fl. oz. Abama 0.15 EC per application or more than 36 fl. oz. per growing season.
better insect control is achieved using a combination of Abama 0.15 EC and either a nonionic surfactant or	application. To ensure thorough spray coverage, use a greater spray volume for high pest pressure, dense crop canopies, and adverse application conditions (high temperatures). Time applications to occur when insects first	Make only 2 sequential applications 7 days or more apart. Do not apply more than 3 applications per season.
organosilicone- based surfactant at the manufacturer's recommended use rates.	appear. Make repeat applications if needed to maintain control according to the Restrictions column of this table.	Do not allow livestock to graze or feed treated foliage to livestock. Preharvest Interval: 28 days

PEARS (INCLUDING ORIENTAL PEARS)

Abama 0.15 EC will control the following pests in pears and Oriental pears:

European red mite McDaniel spider mite Pear psylla Pear rust mite Twospotted spider mite Yellow mite

Rate of Abama 0.15 EC	Directions for Application	Restrictions
For Dilute	Apply Abama 0.15 EC using conventional dilute	Do not apply by air.
Sprays ^a : 2.5 – 5.0 fl.	or concentrate sprays using ground application	
oz./100 gals	equipment. Calibrate equipment prior to	Reduced efficacy and/or
•	application to ensure sufficient water is used for	residual control may occur if
For Concentrate	thorough coverage. The size and number of	Abama 0.15 EC is not applied
Sprays ^b : 10 – 20 fl.	trees per acre as well as foliage density will	with a horticultural spray oil
oz./A	determine the gallons of spray required. Apply	(not a dormant oil). Follow all
	only in 40 gals. or more of water/A. Control of	directions on the spray oil
And add (for best	these mites/insects requires a thorough	label or spray guides. In
results)	coverage of the spray solution on the tree	some cases, phytotoxicity
	foliage.	and crop loss has been
A Horticultural Spray Oil	The state of the s	observed when Abama 0.15
that is not a dormant oil	Time Abama 0.15 EC applications to occur	EC plus a horticultural spray
	when spider mites first appear or when insect	oil was applied in less than 14
For Dilute Sprays:	thresholds are reached. Repeat applications	days before or after a captan
0.25% or 1 gal./A	following the directions in the Restrictions	application.
	column of this table	
For Concentrate Sprays:		Do not apply more than 20 fl.
Minimum of 1 gal./A		oz. Abama 0.15 EC per
	'	application, and no more than
		40 fl. oz. per growing season.
	ı	Make only 2 applications per
		growing season 21 days or
		more apart.
•		more apart.
		Do not allow livestock to
		graze in treated orchards.
		3.222
		Preharvest Interval: 28 days

^a Dilute Spray Rate is based on a volume of 400 gals./A dilute spray.

Spray Drift Precautions: Observe the following precautions when spraying in the vicinity of aquatic areas such as lakes, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farms: --Spray last 3 rows upwind of aquatic areas using nozzles on one side only, with spray directed away from aquatic areas

- --Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove/orchard when spraying the outside row. Shut off nozzles when turning at ends of row and passing tree gaps in rows.
- --Do not apply Abama 0.15 EC when weather conditions favor drift to aquatic areas.
- --Do not apply within 110 feet upwind of aquatic areas or when wind speed is above 8 miles per hour.
- --Do not apply during a temperature inversion.

^b Concentrate Spray Rate: determine the amount of Abama 0.15 EC required in a full cover dilute spray. Then use the same amount of product per acre in concentrate sprays that would be required for the dilute sprays to the same orchard/grove. Note that for small trees, the amount may be less than 10 fl. oz./A.

PLUMS AND PRUNES

Abama 0.15 EC will control the following pests in plums and prunes:

European red mite Pacific spider mite Twospotted spider mite

Rate of Abama 0.15 EC	Directions for Application	Restrictions
For Dilute	Apply Abama 0.15 EC using conventional	Do not apply by air.
Sprays ^a : 2.5 – 5.0 fl.	dilute or concentrate sprays using ground	
oz./100 gals	application equipment. Calibrate equipment	Do not apply more than 20 fl.
	prior to application to ensure sufficient water	oz. Abama 0.15 EC per
For Concentrate	is used for thorough coverage. The size and	application, and no more than
Sprays ^b : 10 – 20 fl.	number of trees per acre as well as foliage	40 fl. oz. per growing season.
oz./A	density will determine the gallons of spray	
	required. Apply only in 40 gals, or more of	Make only 2 applications per
PLUS	water/A. Control of these mites/insects	growing season 21 days or
	requires a thorough coverage of the spray	more apart.
A Horticultural Spray Oil	solution on the tree foliage.	
that is not a dormant oil		Do not allow livestock to graze
	Always use Abama 0.15 EC with either a	in treated orchards.
For Dilute Sprays:	nonionic surfactant or a horticultural spray oil	
0.25% or 1 gal./A	(not a dormant oil). The combination of	Preharvest Interval: 21 days
	Abama 0.15 EC and the nonionic surfactant	
For Concentrate Sprays:	helps to provide an even coverage of spray	
Minimum of 1 gal./A	on the foliage and to improve the wetting and	
	penetration of leaves for better insect control.	· .
OR	Not all combinations of nonionic surfactants	,
	and Abama 0.15 EC have been tested on	
Nonionic surfactant (at	every plum/prune variety or under all types of	
the manufacturer's	growing conditions. Before using a nonionic	
recommended label	surfactant, carefully read and follow the	·
rate).	surfactant product's label.	
	Efficacy may be improved with a combination	
	Efficacy may be improved with a combination	
	of Abama 0.15 EC and a horticultural spray	
	oil (not a dormant oil). However, the chances	
	of phytotoxicity to fruit and foliage increase	
	with this combination. Apply at the	
	recommended rates in this table.	
·	Time Abama 0.15 EC applications to occur	
· .	when mites first appear. Repeat applications	
	following the directions in the Restrictions	
	column of this table.	
a Dilute Spray Pato is base	ed on a volume of 400 gals /A dilute spray	

^a Dilute Spray Rate is based on a volume of 400 gals./A dilute spray.
^b Concentrate Spray Rate: determine the amount of Abama 0.15 EC required in a full cover dilute spray.
Then use the same amount of product per acre in concentrate sprays that would be required for the dilute sprays to the same orchard/grove. Note that for small trees, the amount may be less than 10 fl. oz./A.

Spray Drift Precautions: Observe the following precautions when spraying in the vicinity of aquatic areas such as lakes, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farms:
--Spray last 3 rows upwind of aquatic areas using nozzles on one side only, with spray directed away from

aquatic areas

--Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove/orchard when spraying the outside row. Shut off nozzles when turning at ends of row and passing tree gaps in rows.

-- Do not apply Abama 0.15 EC when weather conditions favor drift to aquatic areas.

-- Do not apply within 100 feet upwind of aquatic areas or when wind speed is above 8 miles per hour.

-- Do not apply during a temperature inversion:

POTATOES

Abama 0.15 EC will control the following pests in potatoes:

Colorado potato beetle Liriomyza leafminers Spider mites

Rate of Abama 0.15	Directions for Application	Restrictions
EC		
8 – 16 fl. oz./A	Apply Abama 0.15 EC using ground or air application equipment. Although aerial application is permitted, best control of mites is achieved with	Refer to the section on Spray Drift Precautions of this label.
Note: Although Abama 0.15 EC can be used without a	ground applications which proved better spray coverage. The user accepts all liability for mite level and duration of control if Abama 0.15 EC is	Do not apply Abama 0.15 EC by air in the State of New York.
wetting agent, improved spreading and penetration for better insect control is achieved using a combination of Abama 0.15 EC and either a	applied by air. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of these mites/insects requires a thorough coverage of the spray solution on the crop foliage.	Do not apply more than 32 fl. oz./A Abama 0.15 EC to control spider mites and Colorado potato beetle, or more than 48 fl. oz to control leafminers.
nonionic surfactant or organosilicone-based surfactant at the manufacturer's recommended use	Do not apply in less than 20 gals. of water/A by ground and in less than 5 gals. of water by air application. To ensure thorough spray coverage, use a greater spray volume for high pest pressure, dense crop canopies, and adverse	Make only 2 sequential applications 7 days or more apart.
rates.	application conditions (high temperatures). Use of Abama 0.15 EC in combination with a sticker or binder type product such as Bravo®	Do not allow livestock to graze or feed treated foliage to livestock.
	Weather Stik® may reduce control of insects and spider mites.	Preharvest Interval: 14 days
·	Apply Abama 0.15 EC at 8 – 12 fl. oz./A for low to moderate insect populations and at 16 fl. oz./A for heavy infestations. Make repeat applications if	
	needed to maintain control according to the Restrictions column of this table. Spider mites: Time applications to occur when inserts are first detected.	,
	insects are first detected. Colorado potato beetle: Apply Abama 0.15 EC when about 50% of the egg masses have hatched and the larvae or present. When 2 applications	
	are required, do not make the second application to the same Colorado potato beetle generation. Liriomyza leatminers: Time application to occur when adult flies are first detected.	

STRAWBERRIES

Abama 0.15 EC will control the following pests in strawberries:

:11.

Strawberry spider mite Twospotted spider mite.

Rate of Abama 0.15	Directions for Application	Restrictions
EC		
16 fl. oz./A	Apply Abama 0.15 EC using ground application	Refer to the section on Spray
	equipment. Calibrate equipment prior to	Drift Precautions of this label
	application to ensure sufficient water is used for	
Note: Although	thorough coverage. Control of these mites	Do not apply by air.
Abama 0.15 EC can	requires a thorough coverage of the spray solution	
be used without a	on the crop foliage. Apply Abama 0.15 EC to the	Do not apply more than 16 fl.
wetting agent,	tops and undersides of the leaves.	oz. per application or more
improved spreading	D 1 1 1 50 1 50 1	than 64 fl. oz Abama 0.15 EC
and penetration for	Do not apply in less than 50 gals. of water/A by	per growing season.
better insect control is	ground. If electro-static sprayers are used, the	After the first 2 and leasting
achieved using a combination of Abama	volume may be less than 50 gals./A but do not use less than 10 gals. of water/A.	After the first 2 applications, wait 21 day or more before
0.15 EC and a	use less than To gais. of water.A.	making additional
nonionic surfactant at	Apply Abama 0.15 EC when mites are first	applications if needed to
the manufacturer's	detected. A second repeat application may be	maintain control.
recommended use	made 7 – 10 days later. This sequence of two	mamam someon
rate.	applications may be repeated if needed but follow	To prevent insect resistance
	the directions in the Restrictions column of this	to Abama 0.15 EC, do not
	table.	apply in strawberry nurseries.
		•
		Preharvest Interval: 3 days

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

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 1/4 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.

Bravo and Weather Stik are registered trademarks of a Syngenta Group Company

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 directions 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.

EPA 20080324