



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

December 20, 2018

David Bolin  
Director- Regulatory Affairs  
Atticus, LLC  
5000 CentreGreen Way, Suite 100  
Cary, NC 27513

Subject: Label Amendment – Addition of NY State restriction for aerial application on Christmas trees, clarification of use rates for two-spotted spider mite on Low Growing Berry Subgroup 13-07G, and other minor changes  
Product Name: A221.01  
EPA Registration Number: 91234-43  
Application Date: 11/15/2018  
Decision Number: 546168

Dear Mr. Bolin:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

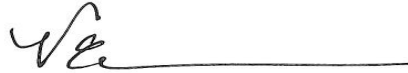
A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Paul Di Salvo by phone at 703-347-0322, or via email at [disalvo.paul@epa.gov](mailto:disalvo.paul@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read 'VE', followed by a horizontal line extending to the right.

Venus Eagle, Product Manager 01  
Invertebrate and Vertebrate Branch 3  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure

[Note to reviewer: [Text] in brackets denotes optional text].  
[Note to reviewer: {Text} in braces denotes where in the final label text will appear.]

{BOOKLET FRONT PANEL LANGUAGE}

GROUP	<b>10B</b>	INSECTICIDE
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# A221.01

[Alternate Brand Name: Zara WSB]

<b>ACTIVE INGREDIENT:</b>	<b>By Wt.</b>
Etoxazole* .....	72.0%
<b>OTHER INGREDIENTS:</b> .....	28.0%
<b>TOTAL:</b> .....	100.0%

\* 2-(2,6-difluorophenyl)-4-[4-(1,1-dimethylethyl)-2-ethoxyphenyl]-4,5-dihydrooxazole

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

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.)

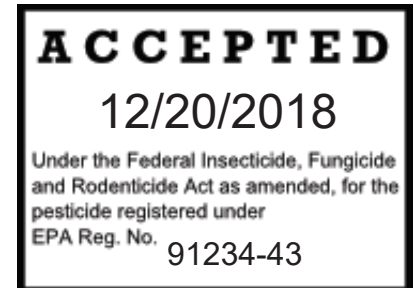
See inside label booklet for First Aid, Precautionary Statements and Directions for Use.

EPA Reg. No.: 91234-43

EPA Est. No.:

Net Weight:

**Manufactured For:**  
Atticus, LLC  
5000 CentreGreen Way, Suite 100  
Cary, NC 27513



Contains etoxazole, the active ingredient used in Zeal® Miticide.  
**A221.01** is not manufactured, or distributed by Valent U.S.A. Corporation, seller of Zeal® Miticide.

## {LANGUAGE INSIDE BOOKLET}

<b>FIRST AID</b>	
<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 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 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 a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</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 by mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>HOT LINE NUMBER</b> Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical assistance, call SafetyCall: <b>1-844-685-9173</b> . For chemical emergency: spill, leak, fire, exposure or accident, call CHEMTREC: <b>1-800-424-9300</b> .	

**For Chemical Emergency  
Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night  
Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)**

### **PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION**

Causes moderate eye irritation. Harmful if inhaled. Avoid contact with eyes, skin and clothing. Avoid breathing dust.

#### **PERSONAL PROTECTIVE EQUIPMENT (PPE):**

**Applicators and other handlers must wear:** long-sleeved shirt and long pants, chemical-resistant gloves made out of: barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyethylene, polyvinyl chloride ≥ 14 mils, or viton ≥ 14 mils; and shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### **ENGINEERING CONTROLS:**

Water-soluble bags, when used correctly qualify as a closed loading system under the WPS. Mixers and Loaders handling this product while it is enclosed in intact water-soluble bags may elect to wear reduced PPE of long-sleeved shirt, long pants, shoes, socks and chemical resistant gloves instead of listed PPE. When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

#### **ENVIRONMENTAL HAZARDS:**

This pesticide is toxic to freshwater and marine/estuarine aquatic invertebrates, including oysters and shrimp. Do not apply directly to water, or 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 treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

#### **PHYSICAL OR CHEMICAL HAZARDS:**

Do not mix or allow coming in contact with oxidizing agents. Hazardous chemical reaction may occur.

#### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

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 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: long sleeved shirt and long pants, chemical-resistant gloves (such as barrier laminate, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, polyethylene, polyvinyl chloride  $\geq$  14 mils, or viton  $\geq$  14 mils) and shoes plus socks.

## CHEMIGATION

**RESTRICTION: Do not apply this product through any type of irrigation or chemigation system.**

### RESISTANCE MANAGEMENT RECOMMENDATIONS

**A221.01** is a Group 10B insecticide. Mite biotypes with acquired resistance to Group 10B may eventually dominate the mite population if Group 10B insecticides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by **A221.01** or other Group 10B insecticides.

To delay insecticide resistance consider:

- Avoiding the consecutive use of **A221.01** or other Group 10B insecticides that have a similar target site of action, on the same mite species.
- Using tank mixtures or premixes with insecticides from different target site of action Group as long as the involved products are all registered for the same use and have different sites of action.
- Basing insecticide use on a comprehensive Integrated Pest Management (IPM) program.
- Monitoring treated mite populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors and/or manufacturer for insecticide resistance management and/or IPM recommendations for specific site and resistant pest problems.

### WATER SOLUBLE BAG INFORMATION

#### Mixing Instructions

Follow the steps below when mixing this product, including if tank mixed with other pesticide products. If being tank mixed, the mixing directions 1 through 9 below take precedence over the mixing directions of the other tank mix products. WSBs may, in some cases, be mixed with other pesticide products so long as the directions for use of all mixed products do not conflict. Do not tank mix this product with products that prohibit tank mixing or have conflicting mixing directions.

1. If a basket or strainer is present in the tank hatch, remove prior to adding the WSB to the tank.
2. Fill tank with water to approximately one-third to one-half of the desired final volume of spray.
3. Stop adding water and stop any agitation.
4. Place intact/unopened WSB(s) into the tank.
5. Do not spray water from a hose or fill pipe to break or dissolve the WSB(s).
6. Start mechanical and recirculation agitation from the bottom of tank without using any overhead recirculation, if possible. If overhead recirculation cannot be turned off, close the hatch before starting agitation.
7. Dissolving the WSB(s) may take up to 5 minutes or longer, depending on water temperature, water hardness and intensity of agitation.
8. Stop agitation before tank lid is opened.
9. Open the lid to the tank, exercising caution to avoid contact with dusts or spray mix, to verify that the WSBs have fully dissolved and the contents have been thoroughly mixed into the solution.
10. Do not add other allowed products or complete filling the tank until the bags have fully dissolved and pesticide is thoroughly mixed.
11. Once the WSB have fully dissolved and any other products have been added to the tank, resume filling the tank with water to the desired level, close the tank lid, and resume agitation.
12. Use the spray solution when mixing is complete.
13. Maintain agitation of the diluted pesticide mix during transport and application.
14. It is unlawful to use any registered pesticide, including WSBs, in a manner inconsistent with its label.

Number of A221.01 Water Soluble Bags Required to Treat Specified Number of Acres		
Rate (oz/A)	Number of Acres to be Treated	Number of 3 oz. Bags Required
0.66	45	10
1.0	30	10

2.0	15	10
3.0	10	10
4.0	7.5	10

### APPLICATION EQUIPMENT

Apply this product via ground application (ground boom, airblast sprayer) or via aerial application. Refer to the specific crop table Instructions.

CANE BERRY (Subgroup 13-07 A)			
CROP	PESTS	PRODUCT RATE OZ/ACRE	INSTRUCTIONS
Blackberry Loganberry Raspberry, Black Raspberry, Red Raspberry, Wild Cultivars, varieties and/or hybrids of these	European Red Spider Mite McDaniel Spider Mite Two-spotted Spider Mite Yellow Spider Mite	2.0 to 3.0 (0.09 to 0.135 lb ai/A)	<p>Apply by ground as a full coverage spray in a minimum of 50 gals/A of water. Applications of <b>A221.01</b> must be done using enough carrier (water) to ensure thorough coverage of the crop's vegetative and reproductive parts, which mites are using for dispersal, feeding and reproduction. Use higher water volumes on older trees and varieties that have more compact and dense foliage. Higher volumes of water coupled with well calibrated equipment will help to provide better coverage.</p> <p>Best results are achieved when mite populations are low. <b>A221.01</b> is predominately an ovicide/larvicide. Apply <b>A221.01</b> at or prior to threshold for your area but not greater than the maximum rate listed.</p> <p>Use lower rate for light infestations and the higher rate for heavy infestations.</p> <p>Do not use below use rate 2.0 oz/A (0.09 lb ai/A) as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.</p>
<b>Restrictions</b>			<ul style="list-style-type: none"> <li>• Preharvest interval (PHI) is 0 days.</li> <li>• Do not make more than one (1) <b>A221.01</b> application per season.</li> <li>• Do not apply more than 3.0 oz (0.135 lb ai) of <b>A221.01</b> per acre per season.</li> <li>• Do not apply more than 0.135 lb ai/A per calendar year.</li> </ul>

**MANAGING RESISTANCE:** Repeated use of the same class of miticides or miticides with similar modes of action can lead to the buildup of resistant mite strains. Use **A221.01** in alternation with miticides having different modes of action

and/or that belong to different chemical classes. Follow local, state, and federal Integrated Pest Management (IPM) and Resistance Management (RM) recommendations. Read and follow all product labels before applying any miticide.

FIELD CORN, POPCORN, CORN (Grown For Seed Production)			
CROP	PESTS	PRODUCT RATE OZ/ACRE	INSTRUCTIONS
Field Corn Popcorn Corn (grown for seed production)	Banks Grass Mite <sup>A</sup> Carmine Spider Mite Pacific Spider Mite Strawberry Spider Mite Two-spotted Spider Mite	1.0 to 3.0 (0.045 to 0.135 lb ai/A)	Apply with [air* or] ground equipment in adequate water for uniform coverage ([a minimum of 3 gals/A by air* or] a minimum of 10 gals/A [by ground]). Coverage is essential for good control. Use of higher water volume will assure better coverage. Applications of <b>A221.01</b> are recommended before tasseling stage to allow good coverage and provide better control.  For field corn utilized for seed production apply <b>A221.01</b> before or at tasseling growth stage. If a second application is needed wait for 14 days to re-treat with <b>A221.01</b>  Best results are achieved when mite populations are below threshold or beginning to build up on the plants. <b>A221.01</b> is predominately an ovicide/larvicide and should be used early in the life cycle of mites. Always follow the recommended threshold for your area.  Use lower rate for light infestations and the higher rate for heavy infestations.  Do not use rates below 1.0 oz/A (0.045 lb ai/A) as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.
[*Not approved for aerial application in New York.]			
<b>Restrictions</b> <ul style="list-style-type: none"> <li>• Do not apply within twenty-one (21) days of harvest.</li> <li>• Do not make more than one (1) <b>A221.01</b> application per season.</li> <li>• Do not apply treatments less than 14 days apart.</li> <li>• Do not apply more than 3.0 oz (0.135 lb ai) of <b>A221.01</b> per acre per season.</li> <li>• Do not apply more than 0.135 lb ai/A per calendar year.</li> </ul>			

<sup>A</sup>Applications targeting exclusively Banks grass mites may require higher rates within the rate range of 1.0 to 3.0 oz/A particularly if populations have exceeded the established threshold in the fields to be treated with **A221.01**. Also, under extreme drought conditions and higher populations Banks grass mites might require more than one application of a non-etoxazole miticide.

**MANAGING RESISTANCE:** Repeated use of the same class of miticides or miticides with similar modes of action can lead to the buildup of resistant mite strains. Use **A221.01** in alternation with other miticides that have different modes of action and/or with other chemical classes of miticides. Follow local, state and federal Integrated Pest Management



(IPM) and Resistance Management (RM) recommendations. Read and follow all product labels before applying any miticide.

COTTON			
CROP	PESTS	PRODUCT RATE OZ/ACRE	INSTRUCTIONS
Cotton	Carmine Spider Mite Pacific Spider Mite Two- spotted Spider Mite	0.66 to 1.0 (0.03 to 0.045 lb ai/A)	Apply with air or ground equipment in adequate water for uniform coverage (3 to 10 gals/A by air or 10 to 50 gals/A by ground). Coverage is essential for good control. Use of higher water volume will assure better coverage.  Best results are achieved when mite populations are low. <b>A221.01</b> is predominately an ovicide/larvicide and should be used early in the life cycle of mites. Apply <b>A221.01</b> at or prior to threshold for your area but not greater than the maximum rate listed. Use lower rate for light infestations and the higher rate for heavy infestations. Do not use below use rate 0.66 oz/A (0.03 lb ai/A) as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.
	<b>Restrictions</b> <ul style="list-style-type: none"> <li>• Preharvest interval (PHI) is 28 days.</li> <li>• Do not make more than one (1) <b>A221.01</b> application per season.</li> <li>• Do not apply more than 1.0 oz (0.045 lb ai) of <b>A221.01</b> per acre per season.</li> <li>• Do not apply more than 0.045 lb ai/A per calendar year.</li> </ul>		

**MANAGING RESISTANCE:** Repeated use of the same class of miticides or miticides with similar modes of action can lead to the buildup of resistant mite strains. Use **A221.01** in alternation with miticides having different modes of action and/or that belong to different chemical classes. Follow local, state and federal Integrated Pest Management (IPM) and Resistance Management (RM) recommendations. Read and follow all product labels before applying any miticide.

CUCURBIT VEGETABLES (Crop Group 9)			
CROP	PESTS	PRODUCT RATE OZ/ACRE	INSTRUCTIONS
Acorn Squash Balsam Apple Balsam Pear Bittermelon Butternut Squash Calabaza Squash Cantaloupe Chayote (fruit) Chinese Cucumber Chinese Okra Chinese Waxgourd (Chinese Preserving Melon) Citron Melon Cucumber Cucuzza Gherkin Gourd, Edible Hechima Hubbard Squash Hyotan <i>Momordica</i> spp. Muskmelon Pumpkin Spaghetti Squash Summer Squash Watermelon Winter Squash	Two-spotted Spider Mite Carmine Spider Mite Pacific Spider Mite Strawberry Spider Mite	2.0 to 3.0 (0.09 to 0.135 lb ai/A)	Apply with [air* or] ground equipment in adequate water for uniform coverage ([a minimum of 3 gals/A by air* or] a minimum of 10 gals/A [by ground]). Coverage is essential for good control. Use of higher water volume will assure better coverage.  Applications of <b>A221.01</b> must be made using enough carrier (water) to ensure thorough coverage of the crop's vegetative and reproductive parts, which mites use for dispersal, feeding and reproduction. Use higher water volumes on more mature plants and varieties that have more compact and dense foliage. Higher volumes of water coupled with well calibrated equipment will help to provide better coverage.  Best results are achieved when mite populations are low. <b>A221.01</b> is predominately an ovicide/larvicide. Apply <b>A221.01</b> at or prior to threshold for your area but not greater than the maximum rate listed.  Use lower rate for light infestations and the higher rate for heavy infestations.  Do not use below use rate 2.0 oz/A (0.09 lb ai/A) as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.
[*Not approved for aerial application in New York.]			
<b>Restrictions</b> <ul style="list-style-type: none"> <li>• Preharvest interval (PHI) is 7 days.</li> <li>• Do not make more than one (1) <b>A221.01</b> application per season.</li> <li>• Do not apply more than 3.0 oz (0.135 lb ai) of <b>A221.01</b> per acre per season.</li> <li>• Do not apply more than 0.135 lb ai/A per calendar year.</li> </ul>			

**MANAGING RESISTANCE:** Repeated use of the same class of miticides or miticides with similar modes of action can lead to the buildup of resistant mite strains. Use **A221.01** in alternation with miticides having different modes of action and/or that belong to different chemical classes. Follow local, state and federal Integrated Pest Management (IPM) and Resistance Management (RM) recommendations. Read and follow all product labels before applying any miticide.

HOPS			
CROP	PEST	PRODUCT RATE OZ/ACRE	INSTRUCTIONS
Hops	Two-spotted Spider Mite	3.0 to 4.0 (0.135 to 0.18 lb ai/A)	<p>Apply with ground equipment in a minimum of 50 gals/A of water. Coverage is essential for good control. Use of higher water volume will assure better coverage.</p> <p>Best results are achieved when mite populations are low. <b>A221.01</b> is predominately an ovicide/larvicide.</p> <p>Apply <b>A221.01</b> at or prior to threshold for your area but not greater than the maximum rate listed.</p> <p>Use lower rate for light infestations and the higher rate for heavy infestations.</p> <p>Do not use below use rate of 3.0 oz/A (0.135 lb ai/A) as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.</p>
	<p><b>Restrictions</b></p> <ul style="list-style-type: none"> <li>• Preharvest interval (PHI) is 7 days.</li> <li>• Do not make more than one (1) <b>A221.01</b> application per season.</li> <li>• Do not apply more than 4.0 oz (0.18 lb ai) of <b>A221.01</b> per acre per season.</li> <li>• Do not apply more than 0.18 lb ai/A per calendar year.</li> </ul>		

**MANAGING RESISTANCE:** Repeated use of the same class of miticides or miticides with similar modes of action can lead to the buildup of resistant mite strains. Use **A221.01** in alternation with miticides having different modes of action and/or that belong to different chemical classes. Follow local, state and federal Integrated Pest Management (IPM) and Resistance Management (RM) recommendations. Read and follow all product labels before applying any miticide.

LOW GROWING BERRY (Subgroup 13-07G)			
CROP	PEST	PRODUCT RATE OZ/ACRE	INSTRUCTIONS
Bearberry Bilberry Blueberry, Lowbush Cloudberry Cranberry Lingonberry Muntries Partridgeberry Strawberry Cultivars, varieties and/or hybrids of these	European Red Mite Pacific Spider Mite	2.0 to 3.0 (0.09 to 0.135 lb ai/A)	<p>Apply with ground equipment in a minimum of 100 gals/A of water. Coverage is essential for good control. Use of higher water volume will assure better coverage.</p> <p>Best results are achieved when mite populations are low. <b>A221.01</b> is predominately an ovicide/larvicide and should be used early in the life cycle of mites. Apply <b>A221.01</b> at or prior to threshold for your area but not greater than the maximum rate listed.</p> <p><b>A221.01</b> will not control Cyclamine Mite. Another miticide registered for this pest should be used if these mites are a problem.</p> <p>Use lower rate for light infestations and the higher rate for heavy infestations. Do not use below use rate of 2.0 oz/A (0.09 lb ai/A) as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.</p>
	Two-spotted Spider Mite	2.0 to 3.0 (0.09 to 0.135 lb ai/A)  <b>OR</b>  2.0 to 3.0 (0.09 to 0.135 lb ai/A) + Fenpropathrin Insecticide (0.2 lb ai/A)	<p>Apply with ground equipment in adequate water for uniform coverage (using a minimum of 100 gals/A.)</p> <p>Do not use below use rate of 2.0 oz/A (0.09 lb ai/A) as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.</p> <p>Use lower rate for light infestations and the higher rate for heavy infestations.</p> <p>If miticide resistance is noted from previous year's treatment, mix <b>A221.01</b> with other non-pyrethroid insecticides, such as Fenpropathrin, rather than <b>A221.01</b> alone. Follow the most restrictive label directions of the other non-pyrethroid insecticide for the use rate for two-spotted spider mite.</p>

	<p><b>Restrictions</b></p> <ul style="list-style-type: none"><li>• Preharvest interval (PHI) is 1 day.</li><li>• Do not make more than one (1) <b>A221.01</b> application per season.</li><li>• Do not apply more than 3.0 oz (0.135 lb ai) of <b>A221.01</b> per acre per season.</li><li>• Do not apply more than 3 oz. (0.135 lb ai/A) per calendar year.</li></ul>
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**MANAGING RESISTANCE:** Repeated use of the same class of miticides or miticides with similar modes of action can lead to the buildup of resistant mite strains. Use **A221.01** in alternation with miticides having different modes of action and/or that belong to different chemical classes. Follow local, state, and federal Integrated Pest Management (IPM) and Resistance Management (RM) recommendations. Read and follow all product labels before applying any miticide.

MINT			
CROP	PESTS	PRODUCT RATE OZ/ACRE	INSTRUCTIONS
Mint (Peppermint and Spearmint)	Pacific Spider Mite Strawberry Spider Mite Two-spotted Spider Mite	2.0 to 4.0 (0.09 to 0.18 lb ai/A)	Apply with [air* or] ground equipment in adequate water for uniform coverage (minimum of [10 gals/A by air* or] 50 gals/A [by ground]). Coverage is essential for good control. Use of higher water volume will assure better coverage.  Best results are achieved when mite populations are low. <b>A221.01</b> is predominately an ovicide/larvicide. Apply <b>A221.01</b> Miticide at or prior to threshold for your area but not greater than the maximum rate listed. Use lower rate for light infestations and the higher rate for heavy infestations.  Do not use below use rate of 2.0 oz/A (0.09 lb ai/A) as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.
	[*Not approved for aerial application in New York.]		
<b>Restrictions</b> <ul style="list-style-type: none"> <li>• Preharvest interval (PHI) is 7 days.</li> <li>• Do not make more than one (1) <b>A221.01</b> application per season.</li> <li>• Do not apply more than 4.0 oz (0.18 lb ai) of <b>A221.01</b> per acre per season.</li> <li>• Do not apply more than 0.18 lb ai/A per calendar year.</li> </ul>			

**MANAGING RESISTANCE:** Repeated use of the same class of miticides or miticides with similar modes of action can lead to the buildup of resistant mite strains. Use **A221.01** in alternation with miticides having different modes of action and/or that belong to different chemical classes. Follow local, state and federal Integrated Pest Management (IPM) and Resistance Management (RM) recommendations. Read and follow all product labels before applying any miticide.

PEPPER AND EGGPLANT (Subgroup 8-10B)			
CROP	PESTS	PRODUCT RATE OZ/ACRE	INSTRUCTIONS
African Eggplant Bell Pepper Eggplant Martynia Non-Bell Pepper Okra Pea Eggplant Pepino Roselle Scarlet Eggplant Cultivars, varieties and/or hybrids of these	Two-spotted Spider Mite	2.0 to 3.0 (0.09 to 0.135 lb ai/A)	<p>Apply with ground equipment in a minimum of 20 gals/A of water. Applications of <b>A221.01</b> Miticide must be made using enough carrier (water) to ensure thorough coverage of the crop's vegetative and reproductive parts, which mites use for dispersal, feeding and reproduction. Use higher water volumes on more mature plants and varieties that have more compact and dense foliage. Higher volumes of water coupled with well calibrated equipment will help to provide better coverage.</p> <p>Best results are achieved when mite populations are low. <b>A221.01</b> is predominately an ovicide/larvicide. Apply <b>A221.01</b> at or prior to threshold for your area but not greater than the maximum rate listed.</p> <p>Use lower rate for light infestations and the higher rate for heavy infestations.</p> <p>Do not use below use rate 2.0 oz/A (0.09 lb ai/A) as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.</p>
<p><b>Restrictions</b></p> <ul style="list-style-type: none"> <li>• Preharvest interval (PHI) is 7 days.</li> <li>• Do not make more than one (1) <b>A221.01</b> application per season.</li> <li>• Do not apply more than 3.0 oz (0.135 lb ai) of <b>A221.01</b> per acre per season.</li> <li>• Do not apply more than 0.135 lb ai/A per calendar year.</li> </ul>			

**MANAGING RESISTANCE:** Repeated use of the same class of miticides or miticides with similar modes of action can lead to the buildup of resistant mite strains. Use **A221.01** in alternation with miticides having different modes of action and/or that belong to different chemical classes. Follow local, state, and federal Integrated Pest Management (IPM) and Resistance Management (RM) recommendations. Read and follow all product labels before applying any miticide.

POME FRUIT (Crop Group 11)			
CROPS	PESTS	PRODUCT RATE OZ/ACRE	INSTRUCTIONS
Apple Crabapple Loquat Mayhaw Pear Pear, Asian Quince	European Red Mite McDaniel Spider Mite Pacific Spider Mite Two- spotted Spider Mite	2.0 to 3.0 (0.09 to 0.135 lb ai/A)	Apply by ground with airblast equipment in a minimum of 100 gals/A. Coverage is essential for good control. Use of higher water volume will assure better coverage. Best results are achieved when mite populations are low. <b>A221.01</b> is predominately an ovicide/larvicide and should be used early in the life cycle of mites. Apply <b>A221.01</b> at or prior to threshold for your area but not greater than the maximum rate listed.  <b>A221.01</b> will not control Rust Mites or Blister Mites. If these pests are a problem, use an alternative miticide registered for that use. Use lower rate for light infestations and the higher rate for heavy infestations.  Do not use below use rate 2.0 oz/A (0.09 lb ai/A) as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.
<b>Restrictions</b> <ul style="list-style-type: none"> <li>• Preharvest interval (PHI) is 14 days.</li> <li>• Do not make more than one (1) <b>A221.01</b> application per season.</li> <li>• Do not apply more than 3.0 oz (0.135 lb ai) of <b>A221.01</b> per acre per season.</li> <li>• Do not apply more than 0.135 lb ai/A per calendar year.</li> </ul>			

**MANAGING RESISTANCE:** Repeated use of the same class of miticides or miticides with similar modes of action can lead to the buildup of resistant mite strains. Use **A221.01** in alternation with miticides having different modes of action and/or that belong to different chemical classes. Follow local, state, and federal Integrated Pest Management (IPM) and Resistance Management (RM) recommendations. Read and follow all product labels before applying any miticide.



SMALL FRUIT VINE CLIMBING, EXCEPT FUZZY KIWIFRUIT (Subgroup 13-07 F)			
CROP	PESTS	PRODUCT RATE OZ/ACRE	INSTRUCTIONS
Amur River Grape Gooseberry Grape Kiwifruit, Hardy Maypop Schisandra Berry Cultivars, varieties, and/or hybrids of these	European Red Mite Pacific Spider Mite Two- spotted Spider Mite Willamette Mite	2.0 to 3.0 (0.09 to 0.135 lb ai/A)	<p>Apply by ground as a full coverage spray in a minimum of 25 gals/A of water. Coverage is essential for good control. Use of higher water volume will assure better coverage. Best results are achieved when mite populations are low. <b>A221.01</b> is predominately an ovicide/larvicide and should be used early in the life cycle of mites. Apply <b>A221.01</b> at or prior to threshold for your area but not greater than the maximum rate listed.</p> <p><b>A221.01</b> will not control Rust Mites or Blister Mites. If these pests are a problem, use an alternative miticide registered for that use. Use lower rate for light infestations and the higher rate for heavy infestations.</p> <p>Do not use below use rate of 2.0 oz/A (0.09 lb ai/A) as this may result in poor control and contribute to the Development of resistance to etoxazole among mite populations.</p>
<p><b>Restrictions</b></p> <ul style="list-style-type: none"> <li>• Preharvest interval (PHI) is 14 days</li> <li>• Do not make more than one (1) <b>A221.01</b> application per season.</li> <li>• Do not apply more than 3.0 oz (0.135 lb ai) of <b>A221.01</b> per acre per season.</li> <li>• Do not apply more than 0.135 lb ai/A per calendar year.</li> </ul>			

**MANAGING RESISTANCE:** Repeated use of the same class of miticides or miticides with similar modes of action can lead to the buildup of resistant mite strains. Use **A221.01** in alternation with miticides having different modes of action and/or that belong to different chemical classes. Follow local, state and federal Integrated Pest Management (IPM) and Resistance Management (RM) recommendations. Read and follow all product labels before applying any miticide.

STONE FRUIT (Crop Group 12)			
CROP	PEST	PRODUCT RATE OZ/ACRE	INSTRUCTIONS
Apricot Cherry (sweet and tart) Nectarine Peach Plum Plum, Chickasaw Plum, Damson Plum, Japanese Plumcot Prune (fresh)	European Red Mite Pacific Spider Mite Two- spotted Spider Mite	2.0 to 3.0 (0.09 to 0.135 lb ai/A)	Apply with ground equipment in a minimum of 50 gals/A of water. Coverage is essential for good control. Use of higher water volume will assure better coverage. Best results are achieved when mite populations are low. <b>A221.01</b> is predominately an ovicide/larvicide. Apply <b>A221.01</b> Miticide at or prior to threshold for your area but not greater than the maximum rate listed. Use lower rate for light infestations and the higher rate for heavy infestations.  Do not use below use rate of 2.0 oz/A (0.09 lb ai/A) as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.
<b>Restrictions</b>			
<ul style="list-style-type: none"> <li>• Preharvest interval (PHI) is 7 days.</li> <li>• Do not make more than one (1) <b>A221.01</b> application per season.</li> <li>• Do not apply more than 3.0 oz (0.135 lb ai) of <b>A221.01</b> per acre per season.</li> <li>• Do not apply more than 0.135 lb ai/A per calendar year.</li> </ul>			

**MANAGING RESISTANCE:** Repeated use of the same class of miticides or miticides with similar modes of action can lead to the buildup of resistant mite strains. Use **A221.01** in alternation with miticides having different modes of action and/or that belong to different chemical classes. Follow local, state and federal Integrated Pest Management (IPM) and Resistance Management (RM) recommendations. Read and follow all product labels before applying any miticide.

NON-BEARING FRUIT TREES			
CROP	PESTS	PRODUCT RATE OZ/ACRE	INSTRUCTIONS
Non-Bearing Fruit Trees	European Red Mite McDaniel Spider Mite Pacific Spider Mite Two-spotted Spider Mite	2.0 to 3.0 (0.09 to 0.135 lb ai/A)	Apply by ground with airblast equipment as a full coverage spray.  Best results are achieved when mite populations are low. <b>A221.01</b> is predominately an ovicide/larvicide. Apply <b>A221.01</b> at or prior to threshold for your area but not greater than the maximum rate listed. Use lower rate for light infestations and the higher rate for heavy infestations. Do not use below use rate 2.0 oz/A (0.09 lb ai/A) as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.
	<b>Restrictions</b>		
	<ul style="list-style-type: none"> <li>• Do not harvest fruit or nuts from treated trees within one (1) year of application.</li> <li>• Do not make more than one (1) <b>A221.01</b> application per season.</li> <li>• Do not apply more than 3.0 oz (0.135 lb ai) <b>A221.01</b> per acre per season.</li> <li>• Do not apply more than 0.135 lb ai/A per calendar year.</li> </ul>		

**MANAGING RESISTANCE:** Repeated use of the same class of miticides or miticides with similar modes of action can lead to the buildup of resistant mite strains. Use **A221.01** in alternation with other miticides having different modes of action and/or that belong to different chemical classes. Follow local, state and federal Integrated Pest Management (IPM) and Resistance Management (RM) recommendations. Read and follow all product labels before applying any miticide.

CHRISTMAS TREES			
CROP	PESTS	PRODUCT RATE OZ/ACRE	INSTRUCTIONS
Christmas Trees	McDaniel Spider Mite Pacific Spider Mite Spruce Spider Mite Two-spotted Spider Mite	2.0 to 3.0 (0.09 to 0.135 lb ai/A)	Apply by ground as full coverage spray [or by air*] in a minimum of 10 gals/A. Coverage is critical for effective control.  Best results are achieved when mite populations are low. <b>A221.01</b> is predominately an ovicide/larvicide. Apply <b>A221.01</b> at or prior to threshold for your area but not greater than the maximum rate listed. Use lower rate for light infestations and the higher rate for heavy infestations. Do not use below use rate 2.0 oz/A (0.09 lb ai/A) as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.
	[*Not approved for aerial application in New York.]		
	<b>Restrictions</b> <ul style="list-style-type: none"> <li>• Do not make more than one (1) <b>A221.01</b> application per season.</li> <li>• Do not apply more than 3.0 oz (0.135 lb ai) <b>A221.01</b> per acre per season.</li> <li>• Do not apply more than 0.135 lb ai/A per calendar year.</li> </ul>		

**MANAGING RESISTANCE:** Repeated use of the same class of miticides or miticides with similar modes of action can lead to the buildup of resistant mite strains. Use **A221.01** in alternation with miticides having different modes of action and/or that belong to different chemical classes. Follow local, state, and federal Integrated Pest Management (IPM) and Resistance Management (RM) recommendations. Read and follow all product labels before applying any miticide.

TREE NUTS			
CROPS	PESTS	PRODUCT RATE OZ/ACRE	INSTRUCTIONS
Almond Beech Nut Brazil Nut Butternut Cashew Chestnut Chinquapin Filbert (Hazelnut) Hickory Nut Macadamia Nut Pecan Pistachio Walnut Black English	European Red Mite Pacific Spider Mite Two-spotted Spider Mite	2.0 to 3.0 (0.09 to 0.135 lb ai/A)	Apply by ground with airblast equipment as a full coverage spray. Best results are achieved when mite populations are low. <b>A221.01</b> is predominately an ovicide/larvicide. Apply <b>A221.01</b> at or prior to threshold for your area but not greater than the maximum rate listed. Use lower rate for light infestations and the higher rate for heavy infestations. Do not use below use rate of 2.0 oz/A (0.09 lb ai/A) as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.
<p><b>Restrictions</b></p> <ul style="list-style-type: none"> <li>• Preharvest interval (PHI) is 28 days.</li> <li>• Do not make more than one (1) <b>A221.01</b> application per season.</li> <li>• Do not apply more than 3.0 oz (0.135 lb ai) <b>A221.01</b> per acre per season.</li> <li>• Do not apply more than 0.135 lb ai/A per calendar year.</li> </ul>			

**MANAGING RESISTANCE:** Repeated use of the same class of miticides or miticides with similar modes of action can lead to the buildup of resistant mite strains. Use **A221.01** in alternation with miticides having different modes of action and/or that belong to different chemical classes. Follow local, state, and federal Integrated Pest Management (IPM) and Resistance Management (RM) recommendations. Read and follow all product labels before applying any miticide.

TROPICAL AND SUB-TROPICAL FRUIT (INEDIBLE PEEL)			
CROP	PESTS	PRODUCT RATE OZ/ACRE	INSTRUCTIONS
Avocado Canistel Mango Papaya Sapodilla Sapote, Black Sapote, Mamey Star Apple	Avocado Brown Mite Persea Mite Two-spotted Spider Mite	2.0 to 3.0 (0.09 to 0.135 lb ai/A)	<p>Apply with [air* or] ground equipment in adequate water for uniform coverage ([minimum 20 gals/A by air* or] minimum 50 gals/A [by ground]). Applications of <b>A221.01</b> must be made using enough carrier (water) to ensure thorough coverage of the crop's vegetative and reproductive parts, which mites use for dispersal, feeding and reproduction. Use higher water volumes on more mature plants and varieties that have more compact and dense foliage. Higher volumes of water coupled with well calibrated equipment will help to provide better coverage.</p> <p>Best results are achieved when mite populations are low. <b>A221.01</b> is predominately an ovicide/larvicide. Apply <b>A221.01</b> Miticide at or prior to threshold for your area but not greater than the maximum rate listed. Use lower rate for light infestations and the higher rate for heavy infestations.</p> <p>Do not use below use rate of 2.0 oz/A (0.09 lb ai/A) as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.</p>
[*Not approved for aerial application in New York.]			
<p><b>Restrictions</b></p> <ul style="list-style-type: none"> <li>• Preharvest interval (PHI) is 1 day.</li> <li>• Do not make more than one (1) <b>A221.01</b> application per season.</li> <li>• Do not apply more than 3.0 oz (0.135 lb ai) of <b>A221.01</b> per acre per season.</li> <li>• Do not apply more than 0.135 lb ai/A per calendar year.</li> </ul>			

**MANAGING RESISTANCE:** Repeated use of the same class of miticides or miticides with similar modes of action can lead to the buildup of resistant mite strains. Use **A221.01** in alternation with miticides having different modes of action and/or that belong to different chemical classes. Follow local, state, and federal Integrated Pest Management (IPM) and Resistance Management (RM) recommendations. Read and follow all product labels before applying any miticide.

## STORAGE AND DISPOSAL

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

### PESTICIDE STORAGE

Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Store in cool, dry place. Do not store diluted spray.

### PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Open dumping is prohibited.

### CONTAINER HANDLING

Nonrefillable outer bag. Do not reuse or refill the outer bag. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration.

## LIMITATION OF WARRANTY AND LIABILITY

**IMPORTANT: READ BEFORE USE.** Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If these terms and conditions are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Disclaimer of Warranties and Limitations of Liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness, injury, and other unintended consequences may result because of such factors as manner of use or application (including misuse), the presence of other materials, weather conditions, and other unknown factors, all of which are beyond the control of ATTICUS, LLC. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, ATTICUS, LLC makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond statements on this label.

**LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, neither ATTICUS, LLC the manufacturer, nor the Seller shall be liable for any indirect, special, incidental or consequential damages resulting from the use, handling, application, storage, or disposal of this product. To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use, handling, application, or storage of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid.

## TANK MIXES

**NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator, and/or application advisor, to the extent allowed by applicable law.** Read and follow the entire label of each product to be used in the tank mix with this product.

**A221.01** is a trademark of Atticus, LLC  
Zeal is a registered trademark of Valent U.S.A. Corporation.

**{LANGUAGE ON LABEL AFFIXED TO CONTAINER}**

**A221.01**

<b>ACTIVE INGREDIENT:</b>	<b>By Wt.</b>
Etoxazole* .....	72.0%
<b>OTHER INGREDIENTS:</b> .....	<b>28.0%</b>
<b>TOTAL:</b> .....	100.0%

\*2-(2,6-difluorophenyl)-4-[4-(1,1-dimethylethyl)-2-ethoxyphenyl]-4,5-dihydrooxazole

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

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.)

<b>FIRST AID</b>	
<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 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 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 by a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</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>
<b>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical assistance, call SafetyCall: <b>1-844-685-9173</b> . For chemical emergency: spill, leak, fire, exposure or accident, call CHEMTREC: <b>1-800-424-9300</b> .	

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

Causes moderate eye irritation. Harmful if inhaled. Avoid contact with eyes, skin and clothing. Avoid breathing dust.

**ENVIRONMENTAL HAZARDS:**

This pesticide is toxic to freshwater and marine/estuarine aquatic invertebrates, including oysters and shrimp. Do not apply directly to water, or 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 treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

**PHYSICAL OR CHEMICAL HAZARDS:**

Do not mix or allow coming in contact with oxidizing agents. Hazardous chemical reaction may occur.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE**

Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Store in cool, dry place. Do not store diluted spray.

**PESTICIDE DISPOSAL**

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Open dumping is prohibited.

**CONTAINER HANDLING**

Nonrefillable outer bag. Do not reuse or refill the outer bag. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration.

See label booklet for additional Precautionary Statements and Directions for Use.

**EPA Reg. No. 91234-43**

**EPA Est. No.**

**Manufactured for:**

Atticus, LLC  
5000 CentreGreen Way, Suite 100  
Cary, NC 27513

**Net Weight:**

Batch Code: