

59639-138

7/14/2009

1 of 28

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



JUL 14 2009

OFFICE OF
PREVENTION, PESTICIDES,
AND TOXIC SUBSTANCES

Leslie Garcia
Valent USA Corporation
P.O. Box 8025
Walnut Creek, CA 95696

Dear Ms. Garcia:

Subject: Etoxazole amendments
Etoxazole Technical
EPA Reg. No. 59639-107
EPA Decision No. 392976
Zeal WP Miticide
EPA Reg. No. 59639-138
EPA Decision No. 392379
TetraSan 5 WDG
EPA Reg. No. 59639-108
EPA Decision No. 392378
Your submission dated April 15, 2008

The following amendments are reflected with these label approvals:

- Use of etoxazole on stone fruit, cucumber, tomato and mint
- Aerial application to melons
- Supplemental label to Zeal WP Miticide for use on cucumber, mint and stone fruit
- Supplemental label to Zeal WP Miticide for aerial application on melons
- Supplemental label to TetraSan 5 WDG for use on indoor grown tomatoes

The subject amendments submitted in connection with the Federal Insecticide, Fungicide and Rodenticide Act are amended as acceptable with the following comments:

1. On both the master and supplemental label for Zeal WP Miticide, EPA Reg No. 59639-138 add the following restriction under the cucumber and mint sections of the labels: "Do not rotate with non-registered crops for 365 days following application of etoxazole."

2. On both the master and supplemental labels for each Zeal WP Miticide, EPA Reg No. 59639-138 and TetraSan 5 WDG EPA Reg. No. 59639-108, under "Special Instructions," revise all statements that read "Apply Zeal WP/TetraSan 5 WDG at threshold for your area" to read: "Apply Zeal WP/TetraSan 5 WDG at threshold for your area but not greater than the maximum rate listed."
3. On both the master and supplemental labels for each Zeal WP Miticide, EPA Reg No. 59639-138 and TetraSan 5 WDG EPA Reg. No. 59639-108, under "Special Instructions," revise all statements that read "Apply Zeal WP/TetraSan 5 WDG at or prior to threshold for your area" to read: "Apply Zeal WP/TetraSan 5 WDG at or prior to threshold for your area but not greater than the maximum rate listed."

In addition, the following conditional data are due within 18 months of the date of this letter:

Health and Human Effects Data Requirements

- 90-Day inhalation toxicity (40 CFR Part 158 conditional requirement based on significant expected inhalation exposure to greenhouse workers).
- Immunotoxicity study in rats is required under current EPA regulations (40 CFR part 158).
- Acute and subchronic neurotoxicity studies (40 CFR Part 158 requirements).
- A new confined rotational crop study to support proposed uses on cucumbers and mint. For mint, the study needs to be conducted at the higher seasonal use rate (.36 lb ai/A). Until these studies are reviewed, the rotation restriction for non-registered crops, as noted above will remain on the label.
- Plum processing study at an exaggeration (5x) application rate

Environmental Fate and Effects Data Requirements

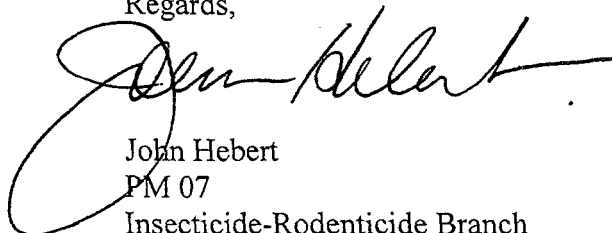
- Acute Sediment Testing. An acute 10-day freshwater sediment test under Guideline 850.1735, with equilibrium, is needed for risk assessment due to the propensity of extoxazole to attach to sediments (K_d value is equal to or greater than 50) and the very high acute toxicity of etoxazole to aquatic invertebrates. The study previously submitted did not have equilibration. A protocol needs to be submitted for approval prior to conducting this study.
- Chronic Sediment Testing (with equilibration). Chronic sediment testing K_d value is equal to or greater than 50, and the half-life in sediment is greater than 10 days in both the aerobic soil and aquatic metabolism studies. The US EPA publication EPA /600/R-01/020: *Chronic Estuarine/Marine Sediment Testing* provides an appropriate protocol for 28-day test with *Leptocheirus plumulosus*. A protocol needs to be submitted for approval prior to conducting this study.
- 122-2 Aquatic Plant Growth (Tier I). The submitted study with *Selenastrum* (MRID 45621705) is considered Supplemental; additional testing with this green alga is not needed at this time. However, Level I screening studies are needed with the remaining four test species for this guideline.

Submit one copy of your final printed labeling incorporating the changes above before you release the products for shipment.

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A copy of the Environmental Fate and Effects review and a stamped copy of the labeling are enclosed for your records. If you have any questions, please contact Autumn Metzger at (703) 305-5314 or metzger.autumn@epa.gov.

Regards,

A handwritten signature in black ink, appearing to read "John Hebert", written over a large, loopy circular flourish.

John Hebert

PM 07

Insecticide-Rodenticide Branch

Registration Division (7505P)

Enclosure

40f28

ACCEPTED
With COMMENTS
In EPA Letter Dated:

JUL 14 2009

Under the Federal Insecticide, Fungicide
and Rodenticide Act, As amended, for the
pesticide Registered under EPA Reg. No:

59639-138



GROUP 10B INSECTICIDE

ZEAL[®] WP Miticide

| Active Ingredient | By Wt. |
|-------------------------|--------|
| *Etoxazole..... | 72% |
| Other Ingredients | 28% |
| Total..... | 100% |

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

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Reg. No. 59639-138
EPA Est. No.

NET WEIGHT 12 OUNCES
(Contains 4/3 oz WSP packets)

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

- If swallowed:**
 - Call a poison control center or doctor immediately for treatment advice.
 - Have person sip a glass of water if able to swallow.
 - Do not induce vomiting unless told to do so by a poison control center or doctor.
 - Do not give anything by mouth to an unconscious person.

- If inhaled:**
 - Move person to fresh air.
 - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
 - Call a poison control center or doctor for further treatment advice.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact **800-892-0099** for emergency medical treatment information.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

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

PERSONAL PROTECTIVE EQUIPMENT (PPE): Some of the materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride and shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If there are 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.
- 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.

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.

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 made of any waterproof material and shoes plus socks.

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**DISCLAIMER, RISKS OF USING THIS PRODUCT,
LIMITED WARRANTY
AND LIMITATION OF LIABILITY**

IMPORTANT: Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

RISKS OF USING THIS PRODUCT

The Buyer and User (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product, which are impossible to eliminate. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pest or weeds to this product, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of Valent. The Buyer should be aware that these inherent unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage, or otherwise affect the crop such that additional care, treatment and expense are required to take the crop to harvest. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND TO THE FULLEST EXTENT ALLOWED BY LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

Valent shall not be responsible for losses or damages (including, but not limited to, loss of yield, increased expenses of farming the crop or such incidental, consequential or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

LIMITED WARRANTY

Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label and subject to the Risks of Using This Product as described above. To the extent consistent with applicable law AND AS SET FORTH ABOVE, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED. No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

LIMITATION OF LIABILITY

To the fullest extent allowed by law, Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. The limitation includes, but is not limited to, loss of yield on all or any portion of the treated acreage, increased care, treatment or other expenses required to take the crop to harvest, increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. TO THE FULLEST EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

PROMPT NOTICE OF CLAIM

Valent must be provided with prompt notice of any claim so that an immediate inspection of the affected property or plants can be made. To the extent applicable law allows such requirement, notice of a claim shall be given promptly to Valent, whether the claim is based on contract, negligence, strict liability, or other tort or otherwise be barred from any remedy.

NO AMENDMENTS

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing Disclaimer, Risks of Using This Product, Limited Warranty and Limitation of Liability, which may not be modified by any oral or written agreement.

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.

CHEMIGATION

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

RESISTANCE MANAGEMENT RECOMMENDATIONS

Zeal[®] WP Miticide 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 Zeal WP or other Group 10B insecticides.

To delay insecticide resistance consider:

- Avoiding the consecutive use of Zeal WP 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.

For further information or to report suspected resistance, you may contact Valent U.S.A. Corporation at the following toll-free number: 800-682-5368.

WATER SOLUBLE PACKAGING
[To Be Included on WSP Formulation Only]

MIXING INSTRUCTIONS

Water Soluble Packaging

This bag contains water soluble packets of *Zea/ WP* Miticide. Do not handle the packets with wet gloves or allow the packets to become wet prior to mixing. If all packets are not used, close and reseal outer container to protect remaining packet(s). Do not add any liquid fertilizers, micronutrients or adjuvants to the spray solution until after the water soluble packets and their contents have completely dissolved. Water soluble packet(s) should completely dissolve in approximately five minutes. Dissolution rate may be slowed by cold water, lack of agitation, or water containing high concentrations of boron or sulfur. High concentration of boron or sulfur may result in spray screen or nozzle clogging due to the incomplete dissolution of the water soluble packet material.

1. Fill clean spray tank 1/2 to 2/3 of desired level with clean water.
2. While agitating, add the correct number of *Zea/ WP* water soluble packets and make sure that they have dissolved completely before proceeding. Agitation should create a rippling or rolling action on the water surface.
3. Fill spray tank to desired level with water. Continue agitation until all spray solution has been applied.
4. Mix only the amount of spray solution that can be applied the day of mixing. Apply *Zea/ WP* within 6 hours of mixing.
5. Refer to the chart below to determine the number of *Zea/ WP* water soluble packets required to treat a given number of acres at a specific rate.

| Number of <i>Zea/ WP</i> Water Soluble Packets Required to Treat Specified Number of Acres | | |
|---|----------------------------------|---------------------------------|
| Rate (oz/A) | Number of Acres to be Treated | Number of 3 oz Packets Required |
| 0.66 | 45 | 10 |
| 1.0 | 30 | 10 |
| 2.0 | 15 | 10 |
| 3.0 | 10 | 10 |
| 4.0 | 7.5 | 10 |

COTTON

| CROP | PESTS | PRODUCT RATES OZ/ACRE | SPECIAL INSTRUCTIONS |
|---|---|-----------------------|---|
| Cotton | Carmine Spider Mite Pacific Spider Mite Two-spotted Spider Mite | 0.66 to 1.0 | <p>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.</p> <p>Best results are achieved when mite populations are low. <i>Zeal</i> WP is predominately an ovicide/larvicide and should be used early in the life cycle of mites. Apply <i>Zeal</i> WP at the threshold for your area.</p> <p>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.</p> |
| <p>Restrictions</p> <ul style="list-style-type: none"> • Do not apply within twenty-eight (28) days of harvest. • Do not make more than one (1) <i>Zeal</i> WP application per season. • Do not apply more than 1.0 oz of <i>Zeal</i> WP per acre per season. | | | |

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. *Zeal* WP should be used in alternation with other miticides possessing dissimilar 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.

CUCUMBER

| CROP | PEST | PRODUCT RATES OZ/ACRE | SPECIAL INSTRUCTIONS |
|--|-------------------------|-----------------------|--|
| Cucumber | Two-spotted Spider Mite | 2.0 to 3.0 | <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. <i>Zeal</i> WP is predominately an ovicide/larvicide. Apply <i>Zeal</i> WP at or prior to threshold for your area.</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>Restrictions</p> <ul style="list-style-type: none"> • Do not apply within seven (7) days of harvest. • Do not make more than two (2) <i>Zeal</i> WP applications per season. • Do not apply more than 6.0 oz of <i>Zeal</i> WP per acre per season. • Do not make a sequential application within twenty-one (21) days of the first application. • Do not use with an adjuvant or surfactant. | | | |

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. *Zeal* WP should be used in alternation with other miticides possessing dissimilar 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.

GRAPE

| CROP | PESTS | PRODUCT RATE OZ/ACRE | SPECIAL INSTRUCTIONS |
|---|--|-------------------------|---|
| Grape | European Red Mite Pacific Spider Mite Two-spotted Spider Mite Willamette Mite | 2.0 to 3.0 | <p>Apply by ground as a full coverage spray in 25 to 200 gals of water per acre. 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. <i>Zeal</i> WP is predominately an ovicide/larvicide and should be used early in the life cycle of mites. Apply <i>Zeal</i> WP at threshold for your area.</p> <p><i>Zeal</i> WP will not control Rust Mites or Blister Mites. If these pests are a problem, use an alternative miticide registered for that use.</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>Restrictions</p> <ul style="list-style-type: none"> • Do not apply within fourteen (14) days of harvest. • Do not make more than one (1) <i>Zeal</i> WP application per season. • Do not apply more than 3.0 oz of <i>Zeal</i> WP per acre per season. | | | |

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. *Zeal* WP should be used in alternation with other miticides possessing dissimilar 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.

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HOPS

| CROP | PEST | PRODUCT RATES OZ/ACRE | SPECIAL INSTRUCTIONS |
|---|-------------------------|-----------------------|---|
| Hops | Two-spotted Spider Mite | 3.0 to 4.0 | <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. <i>Zeal</i> WP is predominately an ovicide/larvicide. Apply <i>Zeal</i> WP at or prior to threshold for your area.</p> <p>Do not use below use rate 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>Restrictions</p> <ul style="list-style-type: none"> • Do not apply within seven (7) days of harvest. • Do not make more than one (1) <i>Zeal</i> WP application per season. • Do not apply more than 4.0 oz of <i>Zeal</i> WP per acre per season. | | | |

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. *Zeal* WP should be used in alternation with other miticides possessing dissimilar 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.

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MELON
(Subgroup 9A)

| CROPS | PEST | PRODUCT RATES OZ/ACRE | SPECIAL INSTRUCTIONS |
|---|-------------------------|-----------------------|--|
| Melons such as: Cantaloupe Citron Melon Muskmelon Watermelon | Two-spotted Spider Mite | 2.0 to 3.0 | <p>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.</p> <p>Best results are achieved when mite populations are low. <i>Zeal</i> WP is predominately an ovicide/larvicide. Apply <i>Zeal</i> WP at or prior to threshold for your area.</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>Restrictions</p> <ul style="list-style-type: none"> • Do not apply within seven (7) days of harvest. • Do not make more than one (1) <i>Zeal</i> WP application per season. • Do not apply more than 3.0 oz of <i>Zeal</i> WP per acre per season. | | | |

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. *Zeal* WP should be used in alternation with other miticides possessing dissimilar 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.

MINT

| CROP | PESTS | PRODUCT RATES OZ/ACRE | SPECIAL INSTRUCTIONS |
|--|--|-----------------------|--|
| Mint (Peppermint and Spearmint) | Pacific Spider Mite Strawberry Spider Mite Two-spotted Spider Mite | 2.0 to 4.0 | <p>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.</p> <p>Best results are achieved when mite populations are low. <i>Zeal WP</i> is predominately an ovicide/larvicide. Apply <i>Zeal WP</i> at or prior to threshold for your area.</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>Restrictions</p> <ul style="list-style-type: none"> • Do not apply within seven (7) days of harvest. • Do not make more than two (2) <i>Zeal WP</i> applications per season. • Do not apply more than 8.0 oz of <i>Zeal WP</i> per acre per season. • Do not make a sequential application within twenty-one (21) days of the first application. • Do not use with an adjuvant or surfactant. | | | |

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. *Zeal WP* should be used in alternation with other miticides possessing dissimilar 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.

POME FRUIT

| CROPS | PESTS | PRODUCT RATE OZ/ACRE | SPECIAL INSTRUCTIONS |
|---|---|----------------------|---|
| Pome Fruit such as Apple Crabapple Loquat Pear Quince | European Red Mite McDaniel Spider Mite Pacific Spider Mite Two-spotted Spider Mite | 2.0 to 3.0 | <p>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.</p> <p>Best results are achieved when mite populations are low. <i>Zea/ WP</i> is predominately an ovicide/larvicide and should be used early in the life cycle of mites. Apply <i>Zea/ WP</i> at threshold for your area.</p> <p><i>Zea/ WP</i> will not control Rust Mites or Blister Mites. If these pests are a problem, use an alternative miticide registered for that use.</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>Restrictions</p> <ul style="list-style-type: none"> • Do not apply within fourteen (14) days of harvest. • Do not make more than one (1) <i>Zea/ WP</i> application per season. • Do not apply more than 3.0 oz of <i>Zea/ WP</i> per acre per season. | | | |

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. ZEAL WP should be used in alternation with other miticides possessing dissimilar 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.

STONE FRUIT

| CROP | PEST | PRODUCT RATES OZ/A | SPECIAL INSTRUCTIONS |
|--|---|--------------------|--|
| Stone Fruit such as 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 | <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. <i>Zeal</i> WP is predominately an ovicide/larvicide. Apply <i>Zeal</i> WP at or prior to threshold for your area.</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>Restrictions</p> <ul style="list-style-type: none"> • Do not apply within seven (7) days of harvest. • Do not make more than two (2) <i>Zeal</i> WP applications per season. • Do not apply more than 6.0 oz of <i>Zeal</i> WP per acre per season. • Do not make a sequential application within fourteen (14) days of the first application. • Do not use with an adjuvant or surfactant. | | | |

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. *Zeal* WP should be used in alternation with other miticides possessing dissimilar 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.

STRAWBERRY

| CROP | PESTS | PRODUCT RATE OZ/ACRE | SPECIAL INSTRUCTIONS |
|--|---|---|--|
| Strawberry | European Red Mite Pacific Spider Mite Two-spotted Spider Mite | 2.0 to 3.0 | <p>Apply with ground equipment in a minimum of 100 gals/A. 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. <i>Zeal</i> WP is predominately an ovicide/larvicide and should be used early in the life cycle of mites. Apply <i>Zeal</i> WP at threshold for your area.</p> <p><i>Zeal</i> WP will not control Cyclamine Mite. Another miticide registered for this pest should be used if these mites are a problem.</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> |
| | Lygus Pacific Spider Mite Spittle Bug Tarnished Plant Bug Two-spotted Spider Mite | 2.0 to 3.0 + 10 2/3 fl oz <i>Danitol</i> ® 2.4 EC (0.2 lb ai/A) | <p>Apply with ground equipment in adequate water for uniform coverage (100 to 300 gals/A).</p> <p>Alternate with other non-pyrethroid insecticides if retreatment is needed in less than 30 days to comply with local IPM programs.</p> <p>Comply with all applicable directions, restrictions and precautions on the registered label for <i>Danitol</i> 2.4 EC Insecticide.</p> |
| <p>Restrictions</p> <ul style="list-style-type: none"> • Do not apply within one (1) day of harvest. • Do not make more than one (1) <i>Zeal</i> WP application per season. • Do not apply more than 3.0 oz of <i>Zeal</i> WP per acre per season. | | | |

continued

STRAWBERRY - continued

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. *Zeal WP* should be used in alternation with other miticides possessing dissimilar 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.

NON-BEARING FRUIT TREES

| CROP | PESTS | PRODUCT RATES OZ/ACRE | SPECIAL INSTRUCTIONS |
|---|---|-----------------------|--|
| Non-Bearing Fruit Trees | European Red Mite McDaniel Spider Mite Pacific Spider Mite Two-spotted Spider Mite | 2.0 to 3.0 | <p>Apply by ground with airblast equipment as a full coverage spray.</p> <p>Best results are achieved when mite populations are low. <i>Zeal WP</i> is predominately an ovicide/larvicide. Apply <i>Zeal WP</i> at or prior to threshold for your area.</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>Restrictions</p> <ul style="list-style-type: none"> • Do not harvest fruit or nuts from treated trees within one (1) year of application. • Do not make more than one (1) <i>Zeal WP</i> application per season. • Do not apply more than 3.0 oz <i>Zeal WP</i> per acre per season. | | | |

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. *Zeal WP* should be used in alternation with other miticides possessing dissimilar 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.

CHRISTMAS TREES

| CROP | PESTS | PRODUCT RATES OZ/ACRE | SPECIAL INSTRUCTIONS |
|--|--|--------------------------|--|
| Christmas Trees | McDaniel Spider Mite Pacific Spider Mite Spruce Spider Mite Two-spotted Spider Mite | 2.0 to 3.0 | <p>Apply by ground as full coverage spray or by air in a minimum of 10 gals/A. Coverage is critical for effective control.</p> <p>Best results are achieved when mite populations are low. <i>Zeal WP</i> is predominately an ovicide/larvicide. Apply <i>Zeal WP</i> at or prior to threshold for your area.</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>Restrictions</p> <ul style="list-style-type: none"> • Do not make more than one (1) <i>Zeal WP</i> application per season. • Do not apply more than 3.0 oz <i>Zeal WP</i> per acre per season. | | | |

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. *Zeal WP* should be used in alternation with other miticides possessing dissimilar 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.

TREE NUTS

| CROPS | PESTS | PRODUCT RATES OZ/ACRE | SPECIAL INSTRUCTIONS |
|--|---|-----------------------|---|
| Tree Nuts such as 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 Mites Two-spotted Spider Mites | 2.0 to 3.0 | Apply by ground with airblast equipment as a full coverage spray. Best results are achieved when mite populations are low. <i>Zeal WP</i> is predominately an ovicide/larvicide. Apply <i>Zeal WP</i> at or prior to threshold for your area. 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>Restrictions</p> <ul style="list-style-type: none"> • Do not apply within twenty-eight (28) days of harvest. • Do not make more than one (1) <i>Zeal WP</i> application per season. • Do not apply more than 3.0 oz <i>Zeal WP</i> per acre per season. | | | |

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. *Zeal WP* should be used in alternation with other miticide materials possessing dissimilar 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.

STORAGE AND DISPOSAL

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.

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

For help with any spill, leak, fire or exposure involving this material, call day or night
(800) 892-0099.

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 DISPOSAL

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, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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***Danitol* is a restricted use product.**

Manufactured for:

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www.valent.com

Made in U.S.A.

EPA Reg. No. 59639-138

EPA Est. No.

059639-00138.20090618.ZWP.cucumber.mint.stonfruit.doc.

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Supplemental Label



ZEAL® WP MITICIDE

EPA Reg. No. 59639-138

ZEAL® WP MITICIDE FOR USE ON CUCUMBER, MINT AND STONE FRUIT

DIRECTIONS FOR USE

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

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION. READ THE LABEL AFFIXED TO THE CONTAINER FOR ZEAL WP MITICIDE BEFORE APPLYING.

USE OF ZEAL WP MITICIDE ACCORDING TO THIS LABELING IS SUBJECT TO THE USE PRECAUTIONS AND LIMITATIONS IMPOSED BY THE LABEL AFFIXED TO THE CONTAINER FOR ZEAL WP MITICIDE.

CUCUMBER

| PEST | PRODUCT RATES OZ/ACRE | SPECIAL INSTRUCTIONS |
|--|--------------------------|--|
| <p>Two-spotted Spider Mite</p> <p style="text-align: center;">ACCEPTED With COMMENTS In EPA Letter Dated: JUL 14 2009</p> <p>Under the Federal Insecticide, Fungicide and Rodenticide Act, As amended, for the pesticide Registered under EPA Reg. No: 59639-138</p> | <p>2.0 to 3.0</p> | <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. <i>Zeal</i> WP Miticide is predominately an ovicide/larvicide. Apply <i>Zeal</i> WP Miticide at or prior to threshold for your area.</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>Restrictions</p> <ul style="list-style-type: none"> • Do not apply within seven (7) days of harvest. • Do not make more than two (2) <i>Zeal</i> WP Miticide applications per season. • Do not apply more than 6.0 oz of <i>Zeal</i> WP Miticide per acre per season. • Do not make a sequential application within twenty-one (21) days of the first application. • Do not use with an adjuvant or surfactant. | | |

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. *Zeal* WP Miticide should be used in alternation with other miticides possessing dissimilar 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.

MINT (Peppermint and Spearmint)

| PESTS | PRODUCT RATES OZ/ACRE | SPECIAL INSTRUCTIONS |
|--|-----------------------|--|
| Pacific Spider Mite Strawberry Spider Mite Two-spotted Spider Mite | 2.0 to 4.0 | <p>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.</p> <p>Best results are achieved when mite populations are low. <i>Zeal</i> WP Miticide is predominately an ovicide/larvicide. Apply <i>Zeal</i> WP Miticide at or prior to threshold for your area.</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>Restrictions</p> <ul style="list-style-type: none"> • Do not apply within seven (7) days of harvest. • Do not make more than two (2) <i>Zeal</i> WP Miticide applications per season. • Do not apply more than 8.0 oz of <i>Zeal</i> WP Miticide per acre per season. • Do not make a sequential application within twenty-one (21) days of the first application. • Do not use with an adjuvant or surfactant. | | |

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. *Zeal* WP Miticide should be used in alternation with other miticides possessing dissimilar 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.

STONE FRUIT SUCH AS APRICOT; CHERRY (SWEET AND TART); NECTARINE; PEACH; PLUM; PLUM, CHICKASAW; PLUM, DAMSOM; PLUM, JAPANESE; PLUMCOT AND PRUNE (FRESH)

| PEST | PRODUCT RATES OZ/A | SPECIAL INSTRUCTIONS |
|---|--------------------|--|
| European Red Mite Pacific Spider Mite Two-spotted Spider Mite | 2.0 to 3.0 | <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. <i>Zeal</i> WP Miticide is predominately an ovicide/larvicide. Apply <i>Zeal</i> WP Miticide at or prior to threshold for your area.</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 style="text-align: right;">continued</p> |

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STONE FRUIT SUCH AS APRICOT; CHERRY (SWEET AND TART); NECTARINE; PEACH; PLUM; PLUM, CHICKASAW; PLUM, DAMSOM; PLUM, JAPANESE; PLUMCOT AND PRUNE (FRESH)
continued

- Restrictions**
- Do not apply within seven (7) days of harvest.
 - Do not make more than two (2) *Zeal* WP Miticide applications per season.
 - Do not apply more than 6.0 oz of *Zeal* WP Miticide per acre per season.
 - Do not make a sequential application within fourteen (14) days of the first application.
 - Do not use with an adjuvant or surfactant.

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. *Zeal* WP Miticide should be used in alternation with other miticides possessing dissimilar 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.

PLEASE CONTACT VALENT U.S.A. CORPORATION AT 800-6-VALENT (682-5368) TO DETERMINE IF THIS USE IS REGISTERED IN YOUR STATE.

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059639-00108.20090622.ZealWP.supp.cucumber.mint.stonefruit.

Supplemental Label



ZEAL® WP MITICIDE

EPA Reg. No. 59639-138

ZEAL® WP MITICIDE FOR AERIAL APPLICATION ON MELON

DIRECTIONS FOR USE

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

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION. READ THE LABEL AFFIXED TO THE CONTAINER FOR ZEAL WP MITICIDE BEFORE APPLYING.

USE OF ZEAL WP MITICIDE ACCORDING TO THIS LABELING IS SUBJECT TO THE USE PRECAUTIONS AND LIMITATIONS IMPOSED BY THE LABEL AFFIXED TO THE CONTAINER FOR ZEAL WP MITICIDE.

MELON (Subgroup 9A) such as: Cantaloupe, Citron Melon, Muskmelon, Watermelon

| PEST | PRODUCT RATES OZ/ACRE | SPECIAL INSTRUCTIONS |
|--|-----------------------|--|
| <p>Two-spotted Spider Mite</p> <p>ACCEPTED With COMMENTS In EPA Letter Dated: JUL 14 2009</p> <p>Under the Federal Insecticide, Fungicide and Rodenticide Act, As amended, for the pesticide Registered under EPA Reg. No:</p> <p>59639-138</p> | <p>2.0 to 3.0</p> | <p>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.</p> <p>Best results are achieved when mite populations are low. Zeal WP Miticide is predominately an ovicide/larvicide. Apply Zeal WP Miticide at or prior to threshold for your area.</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> |

- Restrictions**
- Do not apply within seven (7) days of harvest.
 - Do not make more than one (1) Zeal WP Miticide application per season.
 - Do not apply more than 3.0 oz of Zeal WP Miticide per acre per season.

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. Zeal WP Miticide should be used in alternation with other miticides possessing dissimilar 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.

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