

59639-138

3/16/2011

1 of 23



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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

MAR 16 2011

Mr. Daniel P. Fay
Valent U.S.A. Corporation
P.O. Box 8025
Walnut Creek, CA 94596

Subject: Addition of Brackets to Indicate Application Directions Options

Dear Mr. Fay:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated February 16, 2011 for:

EPA Reg. No 59639-138

Zeal WP Miticide

The Registration Division (RD) has conducted a review of this request for applicability under PRN 98-10 and finds that the label change(s) requested falls within the scope of PRN-98-10. The label has been date-stamped "Notification" and will be placed in our records.

If you have any questions, call me at 703 305-5409 or electronically at daniel.dani@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Dani Daniel".

Dani Daniel
Registration Division (7504P)
Insecticide/Rodenticide Branch

2 of 23

Print Form

Please read instructions on reverse before completing form.

OMB No. 2070-0080

NOTIFICATION
MAR
JAN 1 2011



United States
Environmental Protection Agency
Washington, DC 20460

Registration
Amendment
 Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 59639-138	2. EPA Product Manager John Hebert	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Zeal WP Miticide	PM# 7	
5. Name and Address of Applicant (Include ZIP Code) Valent U.S.A. Corporation P.O. 8025 Walnut Creek, CA 94596 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: <input checked="" type="checkbox"/> EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification adding brackets to use directions for melon and mint, to make aerial application directions optional.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
				3 oz	4
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container 12 oz		5. Location of Label Directions <input type="checkbox"/> On Label <input checked="" type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Daniel P. Fay	Title Technology Operations Mgr	Telephone No. (Include Area Code) 925 256-2778
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment both under applicable law.		6. Date Application Received (Stamped)
2. Signature <i>Daniel P. Fay</i>	3. Title Technology Operations Mgr	
4. Typed Name Daniel P. Fay	5. Date Feb 16, 2011	



February 16, 2011

Notification
Zeal WP Miticide
EPA Reg. No. 59639-138

Ms. Autumn Metzger
Document Processing Desk (NOTIF)
Registration Division, PM Team 7
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202-4501

Dear Mr. Hebert,

Valent U.S.A. Corporation is pleased to submit a notification of a label change to Zeal WP Miticide (EPA Reg. No. 59639-138). The subject of this notification was discussed today (February 16) by phone between Julie Schlekau of Valent and Sherada Hobgood. Please find the following materials submitted in support of this action:

- 1. Application for Pesticide - Notification (Form 8570-1)
- 2. Certification with respect to PR Notice 98-10
- 3. One red line copy of proposed labeling
- 4. One clean copy of proposed labeling

If you have any questions, please contact me at (925) 256-2778 or at dfay@valent.com.

Sincerely,

Daniel P. Fay
Technology Operations Manager
Registration & Regulatory Affairs

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

Encl.

cc: Julie Schlekau

NOTIFICATION
MAR
JAN 1 6 2011



GROUP 10B INSECTICIDE

[Bracketed Information is Optional Text]

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

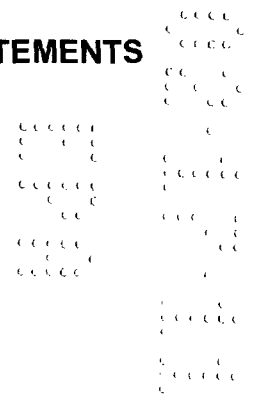
KEEP OUT OF REACH OF CHILDREN

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:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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	
<p>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.</p>	

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.

**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>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 the threshold for your area but not greater than the maximum rate listed.</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>Zea/ WP</i> application per season. • Do not apply more than 1.0 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. *Zea/ 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>Zea/ WP</i> is predominately an ovicide/larvicide. Apply <i>Zea/ WP</i> at or prior to threshold for your area but not greater than the maximum rate listed.</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>Zea/ WP</i> applications per season. • Do not apply more than 6.0 oz of <i>Zea/ 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. • Do not rotate with non-registered crops for 365 days following application of etoxazole. 			

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. *Zea/ 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>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 but not greater than the maximum rate listed.</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. *Zea/ 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.

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>Zea/ WP</i> is predominately an ovicide/larvicide. Apply <i>Zea/ WP</i> at or prior to threshold for your area but not greater than the maximum rate listed.</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>Zea/ WP</i> application per season. • Do not apply more than 4.0 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. *Zea/ 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.

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	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. <i>Zea/ WP</i> is predominately an ovicide/larvicide. Apply <i>Zea/ WP</i> at or prior to threshold for your area but not greater than the maximum rate listed. 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.
			Restrictions <ul style="list-style-type: none"> • Do not apply within seven (7) 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. *Zea/ 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>Zea/ WP</i> is predominately an ovicide/larvicide. Apply <i>Zea/ WP</i> at or prior to threshold for your area but not greater than the maximum rate listed.</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			
<ul style="list-style-type: none"> • Do not apply within seven (7) days of harvest. • Do not make more than two (2) <i>Zea/ WP</i> applications per season. • Do not apply more than 8.0 oz of <i>Zea/ 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. • Do not rotate with non-registered crops for 365 days following application of etoxazole. 			

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. *Zea/ 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	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. <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 but not greater than the maximum rate listed. <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. 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.
	Restrictions <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	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. <i>Zea/ WP</i> is predominately an ovicide/larvicide. Apply <i>Zea/ WP</i> at or prior to threshold for your area but not greater than the maximum rate listed. 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 seven (7) days of harvest. • Do not make more than two (2) <i>Zea/ WP</i> applications per season. • Do not apply more than 6.0 oz of <i>Zea/ WP</i> 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. *Zea/ 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>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 but not greater than the maximum rate listed.</p> <p><i>Zea/ WP</i> 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>Zea/ WP</i> application per season. Do not apply more than 3.0 oz of <i>Zea/ WP</i> 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. *Zea/ 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	Apply by ground with airblast equipment as a full coverage spray. Best results are achieved when mite populations are low. <i>Zea/ WP</i> is predominately an ovicide/larvicide. Apply <i>Zea/ WP</i> at or prior to threshold for your area but not greater than the maximum rate listed. 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 harvest fruit or nuts from treated trees within one (1) year of application. • Do not make more than one (1) <i>Zea/ WP</i> application per season. • Do not apply more than 3.0 oz <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. *Zea/ 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	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. <i>Zea/ WP</i> is predominately an ovicide/larvicide. Apply <i>Zea/ WP</i> at or prior to threshold for your area but not greater than the maximum rate listed. 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.
	Restrictions <ul style="list-style-type: none"> Do not make more than one (1) <i>Zea/ WP</i> application per season. Do not apply more than 3.0 oz <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. *Zea/ 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</i> WP is predominately an ovicide/larvicide. Apply <i>Zeal</i> WP at or prior to threshold for your area but not greater than the maximum rate listed. 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</i> WP application per season. • Do not apply more than 3.0 oz <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 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.

Copyright © 2011 by Valent U.S.A. Corporation

Zeal is a registered trademark of Valent U.S.A. Corporation

Danitol is a registered trademark of Sumitomo Chemical Company, Ltd.

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

Manufactured for:

Valent U.S.A. Corporation

P.O. Box 8025

Walnut Creek, CA 94596-8025

(800)-6-VALENT (682-5368)

www.valent.com

Made in U.S.A.

EPA Reg. No. 59639-138

EPA Est. No.

059639-00138.20110216.ZWP.NOTIF.mint.melon.aerial