

GROUP

10B

ACARICIDE



|                   |        |
|-------------------|--------|
| Active Ingredient | By Wt  |
| Etoxazole*        | 31.7%  |
| Other Ingredients | 68.3%  |
| Total             | 100.0% |

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

Zeal® SC Miticide is a soluble concentrate containing 2.88 lb active ingredient etoxazole per gallon.

EPA Reg. No. 59639-202

EPA Est. 228-IL-002®, 5905-GA-01®, 67545-AZ-01®, 61842-CA-001®, 39578-TX-01®

Superscript is the first letter of lot number.

## KEEP OUT OF REACH OF CHILDREN CAUTION

SEE BELOW FOR ADDITIONAL  
PRECAUTIONARY STATEMENTS.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

##### 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.

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

**Applicators and other handlers must wear:** long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material 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.

### 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 instructions and exceptions pertaining to the statements on the label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

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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.

**Always mix product thoroughly before use.**

#### **CHEMIGATION**

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

#### **RESISTANCE MANAGEMENT**

*Zeal* SC Miticide is a Group 10B acaricide. Mite biotypes with acquired resistance to Group 10B may eventually dominate the mite population if Group 10B acaricides 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* SC Miticide or other Group 10B acaricides.

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To delay mite resistance consider:

- Avoiding the consecutive use of *Zeal* SC Miticide or other Group 10B acaricides 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 such products are registered for the same use and have different sites of action.
- Basing acaricide 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 acaricide resistance management and/or IPM recommendations for specific site and resistant pest problems.

Follow local, state and federal IPM and Resistance Management (RM) recommendations. Read and follow all product labels before applying any miticide.

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.

#### **FIELD CORN, POPCORN, CORN (Grown For Seed Production)**

| <b>Pests</b>   | <b>Product Rate<br/>fl oz/Acre</b> | <b>Maximum Rate<br/>per Application<br/>fl oz/Acre</b> | <b>Maximum<br/>Applications<br/>per Season</b> | <b>PHI*<br/>Days</b> |
|--|------------------------------------|--|--|----------------------|
| Banks Grass Mite <sup>1</sup><br>Carmine Spider Mite<br>Pacific Spider Mite<br>Strawberry Spider Mite<br>Two-spotted Spider Mite | 2.0 to 6.0                         | 6.0  | 2  | 21                   |

Do not apply more than 0.27 lb ai/A per calendar year.

#### **USE INSTRUCTIONS**

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 *Zeal* SC Miticide are recommended before tasseling stage to allow good coverage and provide better control.

For field corn utilized for seed production apply *Zeal* SC Miticide before or at tasseling growth stage. If a second application is needed wait for 14 days to re-treat with *Zeal* SC Miticide.

Best results are achieved when mite populations are below threshold or beginning to build up on the plants. *Zeal* SC Miticide is predominately an ovicide/larvicide and should be used early in the life cycle of mites. Always follow the recommended threshold for your area.

Do not use rates below 2.0 fl oz/A as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations. **Restriction:** Do not apply treatments less than 14 days apart.

See label section titled RESISTANCE MANAGEMENT for recommendations to delay mite resistance to *Zeal* SC Miticide or other acaricides.

<sup>1</sup>Applications targeting exclusively Banks Grass Mites may require higher rates particularly if populations have exceeded the established threshold in the fields to be treated with *Zeal* SC Miticide. Also, under extreme drought conditions and higher populations Banks Grass Mites might require more than one application of a miticide.

\*Pre-Harvest Interval

\*\*Not approved for aerial application in New York

## COTTON

| Pests   | Product Rate<br>fl oz/Acre | Maximum Rate<br>per Application<br>fl oz/Acre | Maximum<br>Applications<br>per Season | PHI*<br>Days |
|---|----------------------------|---|---------------------------------------|--------------|
| Carmine Spider Mite<br>Pacific Spider Mite<br>Two-spotted Spider Mite | 1.33<br>to<br>2.0          | 2.0   | 1                                     | 28           |

\*Pre-Harvest Interval

Do not apply more than 0.09 lb ai/A per calendar year.

### USE INSTRUCTIONS

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. *Zeal* SC Miticide is predominately an ovicide/larvicide and should be used early in the life cycle of mites. Apply *Zeal* SC Miticide at or prior to threshold for your area but not greater than the maximum rate listed.

Do not use rates below 1.33 fl oz/A as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.

See label section titled RESISTANCE MANAGEMENT for recommendations to delay mite resistance to *Zeal* SC Miticide or other acaricides.

## CUCURBIT VEGETABLES

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; *Momordica* spp.; Muskmelon; Pumpkin; Spaghetti Squash; Summer Squash; Watermelon; Winter Squash

| Pests   | Product Rate<br>fl oz/Acre | Maximum Rate per<br>Application<br>fl oz/Acre | Maximum<br>Applications<br>per Season | PHI*<br>Days |
|---|----------------------------|---|---------------------------------------|--------------|
| Two-spotted Spider Mite<br>Carmine Spider Mite<br>Pacific Spider Mite<br>Strawberry Spider Mite | 4.0 to 6.0                 | 6.0   | 1                                     | 7            |

Do not apply more than 0.135 lb ai/A per calendar year.

### USE INSTRUCTIONS

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 *Zeal* SC 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. Best results are achieved when mite populations are low. *Zeal* SC Miticide is predominately an ovicide/larvicide. Apply *Zeal* SC Miticide at or prior to threshold for your area but not greater than the maximum rate listed.

Do not use rates below 4.0 fl oz/A as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.

See label section titled RESISTANCE MANAGEMENT for recommendations to delay mite resistance to *Zeal* SC Miticide or other acaricides.

\*Pre-Harvest Interval

\*\*Not approved for aerial application in New York

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.

### 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.

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.

### CONTAINER HANDLING

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available; otherwise dispose of in a sanitary landfill.

### 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

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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,

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**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.

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Manufactured for:

**Valent U.S.A. Corporation**

P.O. Box 8025

Walnut Creek CA 94596-8025

Made in U.S.A.

Form 2031-B

EPA Reg. No. 59639-202

EPA Est. 228-IL-002<sup>A</sup>, 5905-GA-01<sup>C</sup>, 67545-AZ-01<sup>V</sup>,  
61842-CA-001<sup>C</sup>, 39578-TX-01<sup>E</sup>

Superscript is first letter of lot number.

Information contained in this booklet is accurate at the time of printing. Since product testing is a continuous process, please read and follow the directions on the product label for the most current directions and precautionary statements.

Always check with your state to verify state registration status or call 800-6-VALENT (682-5368).



For state registration and/or supplemental labels, please call or visit us online.

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***Always read and follow label instructions.***

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