



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

October 30, 2018

Leslie Garcia
Project Manager
Valent U.S.A. Corp
1600 Riviera Ave., Suite 200
Walnut Creek, CA 94596-8025

Subject: PRIA Label Amendment – New Use on Sweet Corn, Crop Group (CG)
Conversions to: pome fruit CG 11-10; tree nut CG 14-12; stone fruit CG 12-12,
crop group expansion for cottonseed Sub-CG 20C
Product Names: Etoxazole Technical, Zeal WP Miticide, Zeal SC Miticide
EPA Registration Numbers: 59639-107, 59639-138, 59639-202
Petition Number: 7E8559
Application Date: 2/27/17
Decision Numbers: 527107, 527111, 527115, 527120, 527121, 527122, 527123,
527124, 527125, 527127, 527128, 527129

Dear Ms. Garcia:

The application referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable under FIFRA Section 3(c)(7)(B), subject to the following conditions:

1. You must submit and/or cite all data required for registration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.
2. You are required to comply with the data requirements described in the DCI Order identified below:
 - a. Etoxazole GDCI-107091

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI or EDSP Order listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division:

<http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18

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EPA Reg. No. 59639-107, 59639-138, 59639-202

Decision No. 527107, 527111, 527115, 527120, 527121, 527122, 527123, 527124, 527125,

months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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

Your release for shipment of the product constitutes acceptance of these conditions. If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). If you have any questions, please contact Marianne Lewis by phone at (703) 308-8043 or via email at lewis.marianne@epa.gov.

Sincerely,



Meredith F. Laws, Chief
Invertebrate-Vertebrate Branch 3
Registration Division
Office of Pesticide Programs

Enclosure



ETOXAZOLE GROUP 10B ACARICIDE

[Bracketed Information is Optional Text]

Zeal[®] SC Miticide

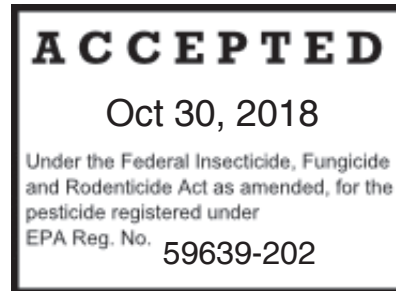
Active Ingredient	By Wt
Etoxazole*	31.7%
Other Ingredients	68.3%
Total	100.0%

*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.

KEEP OUT OF REACH OF CHILDREN

CAUTION



SEE NEXT PAGE [PANEL] [BOOKLET] FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Reg. No. 59639-202
EPA Est. No.

NET CONTENTS 2.5 [5] GALLONS

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, shoes and socks, and chemical-resistant gloves made out of: barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride ≥ 14 mils, or viton ≥ 14 mils.

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.

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, shoes and socks, and chemical-resistant gloves.

Always mix product thoroughly before use.

RESISTANCE MANAGEMENT

For resistance management, *Zeal* SC Miticide contains a Group 10B acaricide. Any mite population may contain individuals naturally resistant to *Zeal* SC Miticide and other Group 10B acaricides. The resistant individuals may dominate the mite population if this group of acaricides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay acaricide resistance, take the following steps:

- Rotate the use of *Zeal* SC Miticide or other Group 10B acaricides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with acaricides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
 - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
 - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
 - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
 - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
 - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for acaricides use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests that the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Valent U.S.A. LLC at 1-800-6-VALENT (682-5368).

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.

CHEMIGATION (For Use on Corn Only)

Zeal SC Miticide alone or in combination with other products which are registered for application through sprinkler irrigation may be applied through irrigation systems. Apply this product only through micro-irrigation (individual spaghetti tube), drip irrigation, overhead irrigation or motorized calibrated irrigation equipment. Do not apply through any other type of irrigation system. Lack of effectiveness can result from non-uniform distribution of treated water. If you have questions about calibration, contact your State Extension Service specialist, equipment manufacturer or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments.

Using Water from Public Water Systems

- **Do not apply *Zeal* SC Miticide through any irrigation system physically connected to a public water system.**

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days per year. *Zeal* SC Miticide may be applied through irrigation systems which may be supplied by a public water system only if the water from the public water system is discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and to top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. Before beginning chemigation, always make sure that the air gap exists and that there is no blockage of the overflow of the reservoir tank.

Any irrigation system using water supplied from a public water system must also meet the following requirements:

Operating Instructions for All Specified Types of Irrigation Systems

1. The system must be calibrated to uniformly apply the rates specified. If you have questions about calibration, contact your State Extension Service specialist, equipment manufacturer or water management experts.
2. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
3. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the

- pesticide injection pump when the water pump motor stops.
6. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
 7. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
 8. Do not apply when wind speed favors drift beyond the area intended.

Calibration and Application Instructions

Apply *Zeal* SC Miticide under the schedule specified in the specific crop rates/instructions, not according to the irrigation schedule, unless the events coincide. In general, set the equipment to apply the minimum amount of water per acre. Run the system at 95-100 % of the manufacturer's maximum rated travel speed.

The following calibration and application techniques are provided for user reference, but do not constitute a warranty of fitness for application through sprinkler irrigation equipment. Check with State and local regulatory agencies for potential use restrictions before applying any agricultural chemical through sprinkler irrigation equipment.

Center Pivot Irrigation Equipment

1. Use only drive systems that provide uniform water distribution.
2. Do not use end guns when chemigating *Zeal* SC Miticide through center pivot systems because of non-uniform application.
3. Plug the first nozzle closest to the well head to protect the water source.
4. Determine the size of the area to be treated.
5. Determine the time required to apply 0.10 to 0.15 inches of water over the area to be treated when the system and injection equipment are operated at normal pressures as recommended by the equipment manufacturer. Run the system at 95 to 100% of the manufacturer's rated maximum travel speed.
6. Using water, determine the injection pump output when operated at normal line pressure.
7. Determine the amount of *Zeal* SC Miticide, and any tank mix partners, required to treat the area covered by the irrigation system.
8. Add the required amount of *Zeal* SC Miticide, and any tank mix partners, and sufficient water to meet the injection time requirements to the solution tanks. (See "Mixing Instructions" section of this label.)
9. Make sure the system is fully charged with water before starting injection of the *Zeal* SC Miticide solution. Time the injection to last at least as long as it takes to bring the system to full pressure.
10. Maintain constant agitation in the solution tank during the injection period.
11. Inject the specified amount of *Zeal* SC Miticide per acre continuously for one complete revolution of the system.
12. Stop the injection equipment after treatment is complete. Continue to operate the system until the *Zeal* SC Miticide solution has cleared all of the sprinkler heads.
13. Allow time for all lines to flush the pesticide through all nozzles before turning off irrigation water.

Solid Set, Hand Move and Moving Wheel Irrigation Equipment

1. Determine the acreage covered by the sprinklers.
2. Fill injector solution tank with plain water and calibrate the flow rate of the system to deliver the contents of the tank over a 30 to 50 minute time interval at the end of the irrigation cycle.
3. Determine the amount of *Zea/* SC Miticide required to treat the area covered by the irrigation system.
4. Add the required amount of *Zea/* SC Miticide, and any other tank mix partners, into the same quantity of water used to calibrate the injection period. (See "Mixing Instructions" section of this label.)
5. Operate the system at the same pressure and time interval established during the calibration.
6. Inject specified amount of *Zea/* SC Miticide per acre for either a 30 to 50 minute period at the end of a regular irrigation set, or as a 30 to 50 minute injection as a separate application not associated with a regular irrigation to maximize retention of the insecticide by the foliage.
7. Stop injection equipment after treatment is completed. Continue to operate the system until the *Zea/* SC Miticide solution has cleared the last sprinkler head. To ensure lines are flushed and free from remaining pesticides, a dye indicator may be injected into the lines to mark the end of the application period.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive Directions for Use and precautionary statements in the tank mixture.

CANEBERRY [(Subgroup 13-07A)]

Blackberry; Loganberry; Raspberry, Black; Raspberry, Red; Raspberry, Wild; Cultivars varieties and/or hybrids of these.

Pests	Product Rate fl oz/Acre	Maximum Rate per application fl oz/Acre	Maximum Applications per Season	PHI* Days
European Red Spider Mite McDaniel Spider Mite Two-spotted Spider Mite Yellow Spider Mite	4.0 to 6.0	6.0	1	0

*Pre-Harvest Interval

USE INSTRUCTIONS

Apply by ground as a full coverage spray in a minimum of 50 gals/A of water. Applications of *Zeal* SC Miticide must be done using enough carrier (water) to ensure thorough coverage of the crop's vegetative and reproductive parts, which mites are using for dispersal, feeding and reproduction. Use higher water volumes on older trees and varieties that have more compact and dense foliage. Higher volumes of water coupled with well calibrated equipment will help to provide better coverage.

Treat 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, do not exceed the maximum rate per year.

Choose lower rate for light infestations and the higher rate for heavy infestations.

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

Restrictions

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

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

Pests	Product Rate fl oz/Acre	Maximum Rate per application fl oz/Acre	Maximum Applications per Season	PHI* Days
Banks Grass Mite ¹ Carmine Spider Mite Pacific Spider Mite Strawberry Spider Mite Two-spotted Spider Mite	2.0 to 6.0	6.0	1	21

*Pre-Harvest Interval

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.

For applications using chemigation refer to chemigation section.

Treat 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 exceed the maximum rate per year.

Choose lower rate for light infestations and the higher rate for heavy infestations.

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

Restrictions

- Do not apply more than 0.27 lb ai/A per calendar year.
- 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.
- Do not apply by air in New York.

¹ 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 may require an additional application of a non-etoxazole miticide.

SWEET CORN

Pests	Product Rate fl oz/Acre	Maximum Rate per application fl oz/Acre	Maximum Applications per Season	PHI* Days
Banks Grass Mite Carmine Spider Mite Pacific Spider Mite Spider Mites Strawberry Spider Mite Two-spotted Spider Mite	2.0 to 6.0	6.0	1	21

*Pre-Harvest Interval

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 *Zea/* SC Miticide are recommended before tasseling stage to allow good spray penetration and provide better control throughout the plant's canopy.

Best results are achieved when mite populations are treated before or at established thresholds. *Zea/* 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 exceed the maximum rate per year.

Choose lower rate for light infestations and the higher rate for heavy infestations.

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

Restrictions

- Do not apply more than 0.135 lb ai/A per calendar year.
- 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.
- Do not apply by air in New York.

COTTON

[Including (Subgroup 20C) Cottonseed; cultivars, varieties, and/or hybrids of these.]

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

*Pre-Harvest Interval

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.

Treat when mite populations are low. *Zea/ SC Miticide* is predominately an ovicide/larvicide and should be used early in the life cycle of mites. Apply *Zea/ SC Miticide* at or prior to threshold for your area, do not exceed the maximum rate per year.

Choose lower rate for light infestations and the higher rate for heavy infestations.

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

Restrictions

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

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 fl oz/Acre	Maximum Rate per application fl oz/Acre	Maximum Applications per Season	PHI* Days
Two-spotted Spider Mite Carmine Spider Mite Pacific Spider Mite Strawberry Spider Mite	4.0 to 6.0	6.0	1	7

*Pre-Harvest Interval

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.

Treat 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, do not exceed the maximum rate per year.

Choose lower rate for light infestations and the higher rate for heavy infestations.

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

Restrictions

- Do not apply more than 0.135 lb ai/A per calendar year.
- 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.
- Do not apply by air in New York.

HOPS

Pests	Product Rate fl oz/Acre	Maximum Rate per Application fl oz/Acre	Maximum Applications per Season	PHI* Days
Two-spotted Spider Mite	6.0 to 8.0	8.0	1	7

*Pre-Harvest Interval

USE INSTRUCTIONS

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.

Treat when mite populations are low. *Zea/* SC Miticide is predominately an ovicide/larvicide. Apply *Zea/* SC Miticide at or prior to threshold for your area, do not exceed the maximum rate per year.

Choose lower rate for light infestations and the higher rate for heavy infestations.

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

Restrictions

- Do not apply more than 0.18 lb ai/A per calendar year.
- Do not use rates below 6.0 fl oz/A as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.

LOW GROWING BERRY (Subgroup 13-07G)

Bearberry; Bilberry; Blueberry, Lowbush; Cloudberry; Cranberry; Lingonberry; Muntries; Partridgeberry; Strawberry; Cultivars, varieties, and/or hybrids of these.

Pests	Product Rate fl oz/Acre	Maximum Rate per application fl oz/Acre	Maximum Applications per Season	PHI* Days
European Red Mite Pacific Spider Mite Two-spotted Spider Mite	4.0 to 6.0	6.0	1	1

*Pre-Harvest Interval

USE INSTRUCTIONS

Apply with ground equipment in a minimum of 100 gals/A of water. Coverage is essential for good control. Use of higher water volume will assure better coverage.

Treat when mite populations are low. *Zea/ SC* Miticide is predominately an ovicide/larvicide and should be used early in the life cycle of mites. Apply *Zea/ SC* Miticide at or prior to threshold for your area, do not exceed the maximum rate per year.

Zea/ SC Miticide will not control Cyclamine Mite. Another miticide registered for this pest should be used if these mites are a problem.

Choose lower rate for light infestations and the higher rate for heavy infestations.

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

Restrictions

- Do not apply more than 0.135 lb ai/A per calendar year.
- Do not use rates below 4.0 oz/A as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.

TANK MIX INSTRUCTIONS FOR LOW GROWING BERRY [(Subgroup 13-07G)]

Pests	Product Rate fl oz/Acre	Maximum Rate per application fl oz/Acre	Maximum Applications per Season	PHI* Days
Two-spotted Spider Mite	4.0 to 6.0 + 10 2/3 fl oz Danitol® 2.4 EC Insecticide (0.2 lb ai/A)	6.0	1	1

*Pre-Harvest Interval

USE INSTRUCTIONS

Comply with the most restrictive directions for use, restrictions and precautions on both labels.

Apply with ground equipment in adequate water for uniform coverage (using a minimum of 100 gals/A).

Alternate with other non-pyrethroid insecticides if retreatment is needed in less than 30 days to comply with local IPM programs.

Choose lower rate for light infestations and the higher rate for heavy infestations.

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

MINT (Peppermint and Spearmint)				
Pests	Product Rate fl oz/Acre	Maximum Rate per application fl oz/Acre	Maximum Applications per Season	PHI* Days
Pacific Spider Mite Strawberry Spider Mite Two-spotted Spider Mite	4.0 to 8.0	8.0	1	7
<p>*Pre-Harvest Interval</p> <p>USE INSTRUCTIONS 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>Treat when mite populations are low. <i>Zea/ SC</i> Miticide is predominately an ovicide/larvicide. Apply <i>Zea/ SC</i> Miticide at or prior to threshold for your area, do not exceed the maximum rate per year.</p> <p>Choose lower rate for light infestations and the higher rate for heavy infestations.</p> <p>See label section titled RESISTANCE MANAGEMENT for recommendations to delay mite resistance to <i>Zea/ SC</i> Miticide or other acaricides.</p> <p>Restrictions</p> <ul style="list-style-type: none"> • Do not apply more than 0.36 lb ai/A per calendar year. • 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. • Do not apply by air in New York. 				

PEPPER AND EGGPLANT (Subgroup 8-10B)

African Eggplant; Bell Pepper; Eggplant; Martynia; Non-Bell Pepper; Okra; Pea Eggplant; Pepino; Roselle; Scarlet Eggplant; Cultivars, varieties and/or hybrids of these.

Pests	Product Rate fl oz/Acre	Maximum Rate per application fl oz/Acre	Maximum Applications per Season	PHI* Days
Two-spotted Spider Mite Broad Mite (<i>Polyphagotarsonemus latus</i>)	4.0 to 6.0	6.0	1	7

*Pre-Harvest Interval

USE INSTRUCTIONS

Apply with ground equipment in a minimum of 20 gals/A of water. 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.

Treat 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, do not exceed the maximum rate per year.

Choose lower rate for light infestations and the higher rate for heavy infestations.

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

Restrictions

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

POME FRUIT (Crop Group 11-10)

Apple; Azarole; Crabapple; Loquat; Mayhaw; Medlar; Pear; Pear, Asian; Quince; Quince, Chinese; Quince, Japanese; Tejocote; cultivars, varieties, and/or hybrids of these.

Pests	Product Rate fl oz/Acre	Maximum Rate per application fl oz/Acre	Maximum Applications per Season	PHI* Days
European Red Mite McDaniel Spider Mite Pacific Spider Mite Two-spotted Spider Mite	4.0 to 6.0	6.0	1	14

*Pre-Harvest Interval

USE INSTRUCTIONS

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.

Treat 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, do not exceed the maximum rate per year.

Zeal SC Miticide will not control Rust Mites or Blister Mites. If these pests are a problem, use an alternative miticide registered for that use.

Choose lower rate for light infestations and the higher rate for heavy infestations.

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

Restrictions

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

SMALL FRUIT VINE CLIMBING, EXCEPT FUZZY KIWIFRUIT (Subgroup 13-07 F)

Amur River Grape; Gooseberry; Grape; Kiwifruit, Hardy; Maypop; Schisandra Berry; Cultivars, varieties, and/or hybrids of these.

Pests	Product Rate fl oz/Acre	Maximum Rate per application fl oz/Acre	Maximum Applications per Season	PHI* Days
European Red Mite Pacific Spider Mite Two-spotted Spider Mite Willamette Mite	4.0 to 6.0	6.0	1	14

*Pre-Harvest Interval

USE INSTRUCTIONS

Apply by ground as a full coverage spray in a minimum of 25 gals/A of water. Coverage is essential for good control. Use of higher water volume will assure better coverage.

Treat when mite populations are low. *Zea/* SC Miticide is predominately an ovicide/larvicide and should be used early in the life cycle of mites. Apply *Zea/* SC Miticide at or prior to threshold for your area, do not exceed the maximum rate per year.

Zea/ SC Miticide will not control Rust Mites or Blister Mites. If these pests are a problem, use an alternative miticide registered for that use.

Choose lower rate for light infestations and the higher rate for heavy infestations.

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

Restrictions

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

SOYBEAN			
Pests	Product Rate fl oz/Acre	Maximum Rate per application fl oz/Acre	Maximum Applications per Season
Two-spotted Spider Mite and any other species belonging to the spider mite family (Tetranychidae)	2.0 to 6.0	6.0	1
<p>USE INSTRUCTIONS</p> <p>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 volumes will assure better coverage.</p> <p>Applications of <i>Zea/ SC</i> Miticide are recommended before mite populations have passed the established thresholds.</p> <p>Treat when mite populations are beginning to build up on the plants. <i>Zea/ SC</i> 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 exceed the maximum rate per year.</p> <p>Choose lower rate for light infestations and the higher rate for heavy infestations.</p> <p>See label section titled RESISTANCE MANAGEMENT for recommendations to delay mite resistance to <i>Zea/ SC</i> Miticide or other acaricides.</p> <p>Restrictions</p> <ul style="list-style-type: none"> • Do not apply more than 0.135 lb ai/A per calendar year. • Do not apply after R5 stage. • Do not graze treated soybean fields or feed treated forage or hay to livestock. • 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. • Do not apply by air in New York. 			

STONE FRUIT (Crop Group 12-12)

Apricot; Apricot, Japanese; Capulin; Cherry, Black; Cherry, Nanking; Cherry, Sweet; Cherry, Tart); Jujube, Chinese; Nectarine; Peach; Plum; Plum, American; Plum, Beach; Plum, Canada; Plum, Cherry; Plum, Chickasaw; Plum, Damson; Plum, Japanese; Plum, Klamath; Plum, Prune; Plumcot; Sloe; cultivars, varieties, and/or hybrids of these.

Pests	Product Rate fl oz/Acre	Maximum Rate per application fl oz/Acre	Maximum Applications per Season	PHI* Days
European Red Mite Pacific Spider Mite Two-spotted Spider Mite	4.0 to 6.0	6.0	1	7

*Pre-Harvest Interval

USE INSTRUCTIONS

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.

Treat 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, do not exceed the maximum rate per year.

Choose lower rate for light infestations and the higher rate for heavy infestations.

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

Restrictions

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

TREE NUTS (Crop Group 14-12)

African Nut-tree; Almond; Beech Nut; Brazil Nut; Brazilian Pine; Bunya; Bur Oak; Butternut; Cajou Nut; Candlenut; Cashew; Chestnut; Chinquapin; Coconut; Coquito Nut; Dika Nut; Gingko; Guiana Chestnut; Hazelnut (filbert); Heartnut; Hickory Nut; Japanese Horse-chestnut; Macadamia Nut; Mongongo Nut; Monkey-pot; Monkey Puzzle Nut; Okari Nut; Pachira Nut; Peach Palm Nut; Pequi; Pili Nut; Pine Nut; Pecan; Pistachio; Sapucala Nut; Tropical Almond; Walnut, Black; Walnut, English; Yellowhorn; cultivars, varieties, and/or hybrids of these.

Pests	Product Rate fl oz/Acre	Maximum Rate per application fl oz/Acre	Maximum Applications per Season	PHI* Days
European Red Mite Pacific Spider Mite Two-spotted Spider Mite Pecan Leaf Scorch Mite (<i>Eotetranychus hicoriae</i>)	4.0 to 6.0	6.0	1	28

*Pre-Harvest Interval

USE INSTRUCTIONS

Apply by ground with airblast equipment as a full coverage spray.

Treat when mite populations are low. *Zea/ SC* Miticide is predominately an ovicide/larvicide. Apply *Zea/ SC* Miticide at or prior to threshold for your area, do not exceed the maximum rate per year.

Choose lower rate for light infestations and the higher rate for heavy infestations.

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

Restrictions

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

NON-BEARING FRUIT TREES

Pests	Product Rate fl oz/Acre	Maximum Rate per application fl oz/Acre	Maximum Applications per Season	PHI*
European Red Mite McDaniel Spider Mite Pacific Spider Mite Two-spotted Spider Mite	4.0 to 6.0	6.0	1	One Year

*Pre-Harvest Interval

USE INSTRUCTIONS

Apply by ground with airblast equipment as a full coverage spray.

Treat 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, do not exceed the maximum rate per year.

Choose lower rate for light infestations and the higher rate for heavy infestations.

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

Restrictions

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

TROPICAL AND SUB-TROPICAL FRUIT (INEDIBLE PEEL)

Avocado; Canistel; Mango; Papaya; Sapodilla; Sapote, Black; Sapote, Mamey; Star Apple

Pests	Product Rate fl oz/Acre	Maximum Rate per application fl oz/Acre	Maximum Applications per Season	PHI* Days
Avocado Brown Mite Persea Mite Two-spotted Spider Mite	4.0 to 6.0	6.0	1	1

*Pre-Harvest Interval

USE INSTRUCTIONS

Apply with air or ground equipment in adequate water for uniform coverage (minimum 20 gals/A by air or minimum 50 gals/A by ground). Applications of *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.

Treat 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, do not exceed the maximum rate per year.

Choose lower rate for light infestations and the higher rate for heavy infestations.

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

Restrictions

- Do not apply more than 0.135 lb ai/A per calendar year.
- 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.
- Do not apply by air 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 must 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.

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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.

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NO AMENDMENTS

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