

**NET CONTENTS 2-1/2 Gallons**

Active Ingredient	By Wt
Etoxazole*	6.0%
Other Ingredients	94.0%
Total	100.0%

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

Zeal® MVP Miticide is an emulsifiable concentrate containing 0.5 lb active ingredient etoxazole per gallon.

Contains petroleum distillates.

EPA Reg. No. 59639-241

EPA Est. 228-IL<sup>ⓧ</sup>, 228-IL-2<sup>Ⓐ</sup>, 39578-TX-1<sup>Ⓢ</sup>, 5481-ID-1<sup>Ⓢ</sup>, 5905-GA-1<sup>Ⓢ</sup>,  
62171-MS-1<sup>Ⓢ</sup>, 62171-MS-3<sup>Ⓢ</sup>, 62171-MS-4, 67545-AZ-1<sup>Ⓢ</sup>, 67997-IA-1,  
67997-IA-7, 70815-GA-1<sup>Ⓢ</sup>, 70815-GA-2<sup>Ⓢ</sup>, 70815-GA-3, 71764-NC-1,  
86555-MO-1<sup>Ⓢ</sup>, 89332-GA-2<sup>Ⓢ</sup>, 97524-GA-1<sup>Ⓢ</sup>

Superscript is first letter of lot number.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**SEE NEXT PAGE FOR ADDITIONAL  
PRECAUTIONARY STATEMENTS  
AND DIRECTIONS FOR USE**

**Always mix product  
thoroughly before use.**



**ZEAL**®  
**MVP**  
M I T I C I D E

### FIRST AID

**If swallowed:** Immediately call a poison control center or doctor.

Do not induce vomiting unless told to do so by a poison control center or doctor.

Do not give any liquid to the person.

Do not give anything by mouth to an unconscious person.

**If on skin or** Take off contaminated clothing.

**clothing:** Rinse skin immediately with plenty of water for 15-20 minutes.

Call a poison control center or doctor for treatment advice.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Call a poison control center or doctor for treatment advice.

### HOT LINE NUMBER

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

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

#### 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 or Viton  $\geq$  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/PPE 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 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.**

### MANDATORY SPRAY DRIFT MANAGEMENT

#### SPRAY DRIFT

##### Aerial Applications

- Do not release spray at a height greater than 10 ft above the ground or vegetative canopy unless a greater application height is necessary for pilot safety.

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- Applicators are required to select a nozzle and pressure that deliver a medium or coarser droplet size (ASABE S572.1).
- If the windspeed is 10 miles per hour or less, applicators must use 1/2 swath displacement upwind at the downwind edge of the field. When the windspeed is between 11-15 miles per hour, applicators must use 3/4 swath displacement upwind at the downwind edge of the field.
- Do not apply when wind speeds exceed 15 mph at the application site. If the windspeed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- Do not apply during temperature inversions.

#### **Airblast Applications**

- Sprays must be directed into the canopy.
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- User must turn off outward pointing nozzles at low ends and when spraying outer row.
- Do not apply during temperature inversions.

#### **Ground Boom Applications**

- User must only apply with the release height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to select a nozzle and pressure that deliver a medium or coarser droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

#### **Boom-less Ground Applications**

Applicators are required to select a nozzle and pressure that deliver a medium or coarser droplet size (ASABE S572.1).

- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

#### **SPRAY DRIFT ADVISORIES**

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

#### **IMPORTANCE OF DROPLET SIZE**

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

#### **Controlling Droplet Size – Ground Boom**

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

#### **Controlling Droplet Size – Aircraft**

- Adjust Nozzles - Follow nozzle manufacturers' recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight

#### **BOOM HEIGHT – Ground Boom**

For ground equipment, the boom should remain level with the crop and have minimal bounce.

#### **RELEASE HEIGHT - Aircraft**

Higher release heights increase the potential for spray drift

#### **SHIELDED SPRAYERS**

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

#### **TEMPERATURE AND HUMIDITY**

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

#### **TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

#### **WIND**

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

#### **Boom-less Ground Applications**

- Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

#### **Handheld Technology Applications**

- Take precautions to minimize spray drift.

## RESISTANCE MANAGEMENT

For resistance management, *Zeal* MVP Miticide contains a Group 10B acaricide. Any mite population may contain individuals naturally resistant to *Zeal* MVP 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* MVP 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 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* MVP 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* MVP 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* MVP 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.
7. Determine the amount of *Zeal MVP* Miticide, and any tank mix partners, required to treat the area covered by the irrigation system.
8. Add the required amount of *Zeal MVP* 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 MVP* 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 MVP* 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 MVP* 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**

#### **Calibration and Application Instructions**

Apply *Zeal MVP* 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 MVP* 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.

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 *Zeal MVP* Miticide required to treat the area covered by the irrigation system.
4. Add the required amount of *Zeal MVP* 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 *Zeal MVP* 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 *Zeal MVP* 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.

### CANE BERRY (Subgroup 13-07A)

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

Pests	Product Rate fl oz per Acre	Maximum Rate per Application per Acre	Maximum Applications per Calendar Year	PHI* Days
European Red Spider Mite McDaniel Spider Mite Two-spotted Spider Mite Yellow Spider Mite	23 to 34.6 (0.09 to 0.135 lb ai)	34.6 fl oz (0.135 lb ai)	1	0

\*Pre-Harvest Interval

#### USE INSTRUCTIONS

Apply by ground as a full coverage spray in a minimum of 50 gallons/A of water. Applications of *Zeal MVP* 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 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 MVP* Miticide is predominately an ovicide/larvicide. Apply *Zeal MVP* Miticide at or prior to threshold for your area, do not exceed the maximum rate per calendar year.

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

See RESISTANCE MANAGEMENT section for guidance to delay the onset of mite resistance to Group 10B acaricides.

#### Restrictions

- Do not apply more than 34.6 fl oz (0.135 lb ai) *Zeal MVP* Miticide per acre per calendar year.
- Do not use rates below 23 fl 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.

### CORN (FIELD, POP, SEED AND SWEET)

Pests	Product Rate fl oz per Acre	Maximum Rate per Application per Acre	Maximum Applications per Calendar Year	PHI* Days
Banks Grass Mite <sup>1</sup> Carminine Spider Mite Pacific Spider Mite Strawberry Spider Mite Two-spotted Spider Mite	11.5 to 34.6 (0.045 to 0.135 lb ai)	34.6 fl oz (0.135 lb ai)	1	21

\*Pre-Harvest Interval

#### USE INSTRUCTIONS

Apply with air or ground equipment in adequate water for uniform coverage (a minimum of 3 gallons/A by air or a minimum of 20 gallons/A by ground). Coverage is essential for good control. Use of higher water volume will assure better coverage. Apply *Zeal MVP* Miticide before tasseling stage to allow good coverage and provide better control.

For field corn utilized for seed production apply *Zeal MVP* Miticide before or at tasseling growth stage.

For applications using chemigation refer to CHEMIGATION section.

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

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

See RESISTANCE MANAGEMENT for guidance to delay the onset of mite resistance to Group 10B acaricides.

#### Restrictions

- Do not apply more than 34.6 fl oz (0.135 lb ai) *Zeal MVP* Miticide per acre per calendar year.
- Do not use rates below 11.5 fl oz/A (0.045 lb ai/A) as this may result in poor control and contribute to the development of resistance to etoxazole among mite populations.
- Do not apply by air in New York.

<sup>1</sup> Applications targeting exclusively Banks Grass Mites may require the higher rates within the rate range listed above, particularly if populations have exceeded the established threshold in the fields to be treated with *Zeal MVP* Miticide. Also, under extreme drought conditions and higher populations Banks Grass Mites may require an additional application of a non-etoxazole miticide.

## COTTON

Pests	Product Rate fl oz per Acre	Maximum Rate per Application per Acre	Maximum Applications per Calendar Year	PHI* Days
Carmine Spider Mite Pacific Spider Mite Two-spotted Spider Mite	7.66 to 11.5 (0.03 to 0.045 lb ai)	11.5 fl oz (0.045 lb ai)	1	28

\*Pre-Harvest Interval

### USE INSTRUCTIONS

Apply with air or ground equipment in adequate water for uniform coverage (a minimum of 3 gallons/A by air or a minimum of 20 gallons/A by ground). Coverage is essential for good control. Use of higher water volume will assure better coverage.

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

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

See RESISTANCE MANAGEMENT for guidance to delay the onset of mite resistance to *Zeal MVP* Miticide or other acaricides.

### Restrictions

- Do not apply more than 11.5 fl oz (0.045 lb ai) *Zeal MVP* Miticide per acre per calendar year.
- Do not use rates below 7.66 fl 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.

## CUCURBIT VEGETABLES (Crop Group 9)

Chayote (fruit); Chinese Waxgourd (Chinese Preserving Melon); Citron Melon; Cucumber; Gherkin; Gourd, Edible (includes Hyotan, Cucuzza, Hechima, Chinese Okra); *Momordica* spp. (includes Balsam Apple, Balsam Pear, Bitter Melon, Chinese Cucumber); Muskmelon (includes Cantaloupe); Pumpkin; Squash, Summer; Squash, Winter (includes Butternut Squash, Calabaza, Hubbard Squash, Acorn Squash, Spaghetti Squash); Watermelon

Pests	Product Rate fl oz per Acre	Maximum Rate per Application per Acre	Maximum Applications per Calendar Year	PHI* Days
Carmine Spider Mite Pacific Spider Mite Strawberry Spider Mite Two-spotted Spider Mite	23 to 34.6 (0.09 to 0.135 lb ai)	34.6 fl oz (0.135 lb ai)	1	7

\*Pre-Harvest Interval

### USE INSTRUCTIONS

Apply with air or ground equipment in adequate water for uniform coverage (a minimum of 3 gallons/A by air or a minimum of 20 gallons/A by ground). Coverage is essential for good control. Use of higher water volume will assure better coverage.

Applications of *Zeal MVP* 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 MVP* Miticide is predominately an ovicide/larvicide. Apply *Zeal MVP* Miticide at or prior to threshold for your area, do not exceed the maximum rate per calendar year.

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

See RESISTANCE MANAGEMENT for guidance to delay the onset of mite resistance to Group 10B acaricides.

### Restrictions

- Do not apply more than 34.6 fl oz (0.135 lb ai) *Zeal MVP* Miticide per acre per calendar year.
- Do not use rates below 23 fl 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.
- Do not apply by air in New York.

## HOPS

Pests	Product Rate fl oz per Acre	Maximum Rate per Application per Acre	Maximum Applications per Calendar Year	PHI* Days
Two-spotted Spider Mite	34.6 to 46.1 (0.135 to 0.18 lb ai)	46.1 fl oz (0.18 lb ai)	1	7

\*Pre-Harvest Interval

### USE INSTRUCTIONS

Apply with ground equipment in a minimum of 50 gallons/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 MVP* Miticide is predominately an ovicide/larvicide. Apply *Zeal MVP* Miticide at or prior to threshold for your area, do not exceed the maximum rate per calendar year.

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

See RESISTANCE MANAGEMENT for guidance to delay the onset of mite resistance to Group 10B acaricides.

### Restrictions

- Do not apply more than 46.1 fl oz (0.18 lb ai) *Zeal MVP* Miticide per acre per calendar year.
- Do not use rates below 34.6 fl 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.

## 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 per Acre	Maximum Rate per Application per Acre	Maximum Applications per Calendar Year	PHI* Days
European Red Mite Pacific Spider Mite Two-spotted Spider Mite	23 to 34.6 (0.09 to 0.135 lb ai)	34.6 fl oz (0.135 lb ai)	1	1

\*Pre-Harvest Interval

### USE INSTRUCTIONS

Apply with ground equipment in a minimum of 100 gallons/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 MVP* Miticide is predominately an ovicide/larvicide. Apply *Zeal MVP* Miticide at or prior to threshold for your area, do not exceed the maximum rate per calendar year.

*Zeal MVP* Miticide will not control Cyclamen 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 RESISTANCE MANAGEMENT for guidance to delay the onset of mite resistance to Group 10B acaricides.

### Restrictions

- Do not apply more than 34.6 fl oz (0.135 lb ai) *Zeal MVP* Miticide per acre per calendar year.
- Do not use rates below 23 fl 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.



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

Pests	Product Rate fl oz per Acre	Maximum Rate per Application per Acre	Maximum Applications per Calendar Year	PHI* Days
Two-spotted Spider Mite	23 to 34.6 (0.09 to 0.135 lb ai/A) + 10 2/3 fl oz Danitol® 2.4 EC Spray (0.2 lb Fenprothrin/A)	34.6 fl oz (0.135 lb ai/A)	1	2

\*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 gallons/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 RESISTANCE MANAGEMENT for guidance to delay the onset of mite resistance to Group 10B acaricides.

**Restrictions**

- Do not apply more than 34.6 fl oz (0.135 lb ai) Zeal MVP Miticide per acre per calendar year.
- Do not use rates below 23 fl 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.

**MINT (Peppermint and Spearmint)**

Pests	Product Rate fl oz per Acre	Maximum Rate per Application per Acre	Maximum Applications per Calendar Year	PHI* Days
Pacific Spider Mite Strawberry Spider Mite Two-spotted Spider Mite	23 to 46.1 (0.09 to 0.18 lb ai)	46.1 fl oz (0.18 lb ai)	1	7

\*Pre-Harvest Interval

**USE INSTRUCTIONS**

Apply with air or ground equipment in adequate water for uniform coverage (minimum of 10 gallons/A by air or 50 gallons/A by ground). Coverage is essential for good control. Use of higher water volume will assure better coverage.

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

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

See RESISTANCE MANAGEMENT for guidance to delay the onset of mite resistance to Group 10B acaricides.

**Restrictions**

- Do not apply more than 46.1 fl oz (0.18 lb ai) Zeal MVP Miticide per acre per calendar year.
- Do not use rates below 23 fl 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.
- 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 per Acre	Maximum Rate per Application per Acre	Maximum Applications per Calendar Year	PHI* Days
Two-spotted Spider Mite Broad Mite ( <i>Polyphagotarsonemus latus</i> )	23 to 34.6 (0.09 to 0.135 lb ai)	34.6 fl oz (0.135 lb ai)	1	7

\*Pre-Harvest Interval

#### USE INSTRUCTIONS

Apply with ground equipment in a minimum of 20 gallons/A of water. Applications of *Zeal MVP* 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 MVP* Miticide is predominately an ovicide/larvicide. Apply *Zeal MVP* Miticide at or prior to threshold for your area, do not exceed the maximum rate per calendar year.

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

See RESISTANCE MANAGEMENT for guidance to delay the onset of mite resistance to Group 10B acaricides.

#### Restrictions

- Do not apply more than 34.6 fl oz (0.135 lb ai) *Zeal MVP* Miticide per acre per calendar year.
- Do not use rates below 23 fl 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.

### 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 per Acre	Maximum Rate per Application per Acre	Maximum Applications per Calendar Year	PHI* Days
European Red Mite McDaniel Spider Mite Pacific Spider Mite Two-spotted Spider Mite	23 to 34.6 (0.09 to 0.135 lb ai)	34.6 fl oz (0.135 lb ai)	1	14

\*Pre-Harvest Interval

#### USE INSTRUCTIONS

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

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

*Zeal MVP* Miticide will not control Rust Mites or Blister Mites. If these pests are a problem, use an alternate miticide reregistered for that use.

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

See RESISTANCE MANAGEMENT for guidance to delay the onset of mite resistance to Group 10B acaricides.

#### Restrictions

- Do not apply more than 34.6 fl oz (0.135 lb ai) *Zeal MVP* Miticide per acre per calendar year.
- Do not use rates below 23 fl 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.

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

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

Pests	Product Rate fl oz per Acre	Maximum Rate per Application per Acre	Maximum Applications per Calendar Year	PHI* Days
European Red Mite Pacific Spider Mite Two-spotted Spider Mite Willamette Mite	23 to 34.6 (0.09 to 0.135 lb ai)	34.6 fl oz (0.135 lb ai)	1	14

\*Pre-Harvest Interval

**USE INSTRUCTIONS**

Apply by ground as a full coverage spray in a minimum of 25 gallons/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 MVP* Miticide is predominately an ovicide/larvicide. Apply *Zeal MVP* Miticide at or prior to threshold for your area, do not exceed the maximum rate per calendar year.

*Zeal MVP* 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 RESISTANCE MANAGEMENT for guidance to delay the onset of mite resistance to Group 10B acaricides.

**Restrictions**

- Do not apply more than 34.6 fl oz (0.135 lb ai) *Zeal MVP* Miticide per acre per calendar year.
- Do not use rates below 23 fl 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.

**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 per Acre	Maximum Rate per Application per Acre	Maximum Applications per Calendar Year	PHI* Days
European Red Mite Pacific Spider Mite Two-spotted Spider Mite	23 to 34.6 (0.09 to 0.135 lb ai)	34.6 fl oz (0.135 lb ai)	1	7

\*Pre-Harvest Interval

**USE INSTRUCTIONS**

Apply with ground equipment in a minimum of 50 gallons/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 MVP* Miticide is predominately an ovicide/larvicide. Apply *Zeal MVP* Miticide at or prior to threshold for your area, do not exceed the maximum rate per calendar year.

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

See RESISTANCE MANAGEMENT for guidance to delay the onset of mite resistance to Group 10B acaricides.

**Restrictions**

- Do not apply more than 34.6 fl oz (0.135 lb ai) *Zeal MVP* Miticide per acre per calendar year.
- Do not use rates below 23 fl 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.

### TREE NUTS (Crop Group 14-12)

African Nut-tree; Almond; Beechnut; Brazil Nut; Brazilian Pine; Bunya; Bur Oak; Butternut; Cajou Nut; Candelnut; 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; Pecan; Pequi; Pili Nut; Pine Nut; Pistachio; Sapucaia Nut; Tropical Almond; Walnut, Black; Walnut, English; Yellowhorn; cultivars, varieties, and/or hybrids of these.

Pests	Product Rate fl oz per Acre	Maximum Rate per Application per Acre	Maximum Applications per Calendar Year	PHI* Days
European Red Mite Pacific Spider Mite Pecan Leaf Scorch Mite ( <i>Eotetranychus hircoriae</i> ) Two-spotted Spider Mite	23 to 34.6 (0.09 to 0.135 lb ai)	34.6 fl oz (0.135 lb ai)	1	28

\*Pre-Harvest Interval

#### USE INSTRUCTIONS

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

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

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

See RESISTANCE MANAGEMENT for guidance to delay the onset of mite resistance to Group 10B acaricides.

#### Restrictions

- Do not apply more than 34.6 fl oz (0.135 lb ai) *Zeal*/MVP Miticide per acre per calendar year.
- Do not use rates below 23 fl 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.

### NON-BEARING FRUIT TREES

Pests	Product Rate fl oz per Acre	Maximum Rate per Application per Acre	Maximum Applications per Calendar Year	PHI*
European Red Mite McDaniel Spider Mite Pacific Spider Mite Two-spotted Spider Mite	23 to 34.6 (0.09 to 0.135 lb ai)	34.6 fl oz (0.135 lb ai)	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* MVP Miticide is predominately an ovicide/larvicide. Apply *Zeal* MVP Miticide at or prior to threshold for your area, do not exceed the maximum rate per calendar year.

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

See RESISTANCE MANAGEMENT for guidance to delay the onset of mite resistance to Group 10B acaricides.

#### Restrictions

- Do not apply more than 34.6 fl oz (0.135 lb ai) *Zeal*/MVP Miticide per acre per calendar year.
- Do not use rates below 23 fl 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.
- Do not harvest fruit or nuts from treated trees within year of application.

## TROPICAL AND SUB-TROPICAL FRUIT (INEDIBLE PEEL)

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

Pests	Product Rate fl oz per Acre	Maximum Rate per Application per Acre	Maximum Applications per Calendar Year	PHI* Days
Avocado Brown Mite Persea Mite Two-spotted Spider Mite	23 to 34.6 (0.09 to 0.135 lb ai)	34.6 fl oz (0.135 lb ai)	1	1

\*Pre-Harvest Interval

### USE INSTRUCTIONS

Apply with air or ground equipment in adequate water for uniform coverage (minimum 20 gallons/A by air or minimum 50 gallons/A by ground). Applications of *Zea/MVP* 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. *Zea MVP* Miticide is predominately an ovicide/larvicide. Apply *Zea MVP* Miticide at or prior to threshold for your area, do not exceed the maximum rate per calendar year.

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

See RESISTANCE MANAGEMENT for guidance to delay the onset of mite resistance to Group 10B acaricides.

### Restrictions

- Do not apply more than 34.6 fl oz (0.135 lb ai) *Zea/MVP* Miticide per acre per calendar year.
- Do not use rates below 23 fl 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.
- 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.

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

**IMPORTANT:** Read the entire Label including this section titled Risks of Using this Product, Limited Warranty and Disclaimer, 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. 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. 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. The Directions for Use of this product must be followed carefully. 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. To the extent consistent with applicable law, 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.

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**PROMPT NOTICE OF CLAIM**

To the extent consistent with applicable law allowing such requirements, Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is later, so that an immediate inspection of the affected property and growing crops can be made.

To the extent consistent with applicable law, if Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

**NO AMENDMENTS**

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Manufactured for:

**Valent U.S.A. LLC**

P.O. Box 5075

San Ramon CA 94583

Made in U.S.A.

Form 2396-B

EPA Reg. No. 59639-241

EPA Est. 228-1L<sup>®</sup>, 228-1L-2<sup>®</sup>, 39578-TX-1<sup>®</sup>, 5481-ID-1<sup>®</sup>,  
5905-GA-1<sup>®</sup>, 62171-MS-1<sup>®</sup>, 62171-MS-3<sup>®</sup>, 62171-MS-4,  
67545-AZ-1<sup>®</sup>, 67997-IA-1, 67997-IA-7, 70815-GA-1<sup>®</sup>,  
70815-GA-2<sup>®</sup>, 70815-GA-3, 71764-NC-1, 86555-MO-1<sup>®</sup>,  
89332-GA-2<sup>®</sup>, 97524-GA-1<sup>®</sup>

Superscript is first letter of lot number.

059639-00241.20230724.Amend\_ID+SugarBeet

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