

2023-1283  
2024-08-29

Base Label

|       |    |           |
|-------|----|-----------|
| GROUP | 21 | ACARICIDE |
| GROUP | 39 | FUNGICIDE |

# MAGISTER SC MITICIDE

For control of listed mites, insects and diseases in berries, hops, mint, cucurbit vegetables, fruiting vegetables, pome fruits, grapes, stone fruits, tree nuts, and ornamentals

**COMMERCIAL (AGRICULTURAL)**

**SUSPENSION**

READ THIS LABEL AND ATTACHED BOOKLET BEFORE USING

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**



**POISON**

**EYE AND SKIN IRRITANT**

**ACTIVE INGREDIENT:**

Fenazaquin ..... **205 g/L**

**Contains 1,2-benzisothiazolin-3-one at 0.0097 % as a preservative**

Warning - contains the allergen sulfites.

REGISTRATION NO. 34544 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 1L - Bulk



Gowan Company, L.L.C.  
P.O. Box 5569  
Yuma, AZ 85364-5569  
1-800-960-4318

## GENERAL INFORMATION

MAGISTER SC is a suspension concentrate formulation that acts by contact to provide rapid knockdown of mites and certain insects. MAGISTER SC provides control of eggs by contact and controls immature and adult mites by both contact and ingestion. In addition to mites, MAGISTER SC has proven fungicidal activity. MAGISTER SC is a METI (mitochondrial electron transport inhibitor) classified as IRAC Group 21.

## SAFETY AND HANDLING

### PRECAUTIONS

Hazardous to Humans and Domestic Animals.

KEEP OUT OF REACH OF CHILDREN.

Fatal if swallowed. Harmful if inhaled. Avoid breathing spray. Causes skin irritation. DO NOT get on skin. May irritate eyes. Avoid contact with eyes.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

### Personal Protective Clothing and Equipment

Follow the personal protective equipment and restriction requirements for the appropriate mixer/loader and applicator scenario as described in the booklet label.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not re-use them. Follow manufacturer's instructions for cleaning and maintaining personal protective equipment (PPE). If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### User Safety Recommendation

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.

### Restricted-entry Interval

- **DO NOT** enter or allow worker entry into treated areas during the intervals specified in the following table:

| Crop                    | Postapplication Activity | Restricted-entry interval (REI) and/or Preharvest interval (PHI) |
|-------------------------|--------------------------|--|
| Bushberry and Caneberry | Harvesting               | 7 days   |

|   |  |          |
|---|--|----------|
|   | Handset irrigation   | 2 days   |
|   | All other activities   | 12 hours |
| Low Growing Berry Subgroup 13-07G         | Handset irrigation   | 2 days   |
|   | Harvesting   | 1 day    |
|   | All other activities   | 12 hours |
| Hops                                      | Harvesting   | 22 days  |
|   | Handset irrigation   | 1 day    |
|   | All other activities   | 12 hours |
| Mint                                      | Harvesting and scouting  | 7 days   |
|   | Handset irrigation   | 4 days   |
|   | All other activities   | 12 hours |
| Fruiting Vegetables                       | Harvesting and handset irrigation  | 3 days   |
|   | All other activities   | 12 hours |
| Cucurbit Vegetables                       | Handset irrigation   | 6 days   |
|   | Harvesting   | 3 days   |
|   | All other activities   | 12 hours |
| Small Fruit Vine Climbing Subgroup 13-07F | Girdling and turning of table grapes   | 22 days  |
|   | Hand harvesting, tying and training for grapes   | 15 days  |
|   | Mechanical harvesting of grapes, hand and mechanical harvesting of all other vine climbing berries, thinning fruit by hand, leaf removal | 7 days   |
|   | Handset irrigation   | 3 days   |
|   | Tying and training for all other vine climbing berries (except grapes at 15 days)  | 2 days   |
|   | All other activities   | 12 hours |
| Pome Fruit and Stone Fruit                | Thinning fruit by hand   | 17 days  |
|   | Harvesting   | 10 days  |
|   | Scouting, hand pruning and training  | 1 day    |

|  |  |          |
|--|--|----------|
|  | All other activities                                   | 12 hours |
| Tree Nuts  | Harvesting   | 7 days   |
|  | Scouting for all tree nuts and hand pruning for pecans | 1 day    |
|  | All other activities                                   | 12 hours |
| Outdoor ornamental plants; Established outdoor ornamental landscape plantings; Ornamental plants in rights-of-way and other easements; Ornamental plants in recreational sites (such as campgrounds, golf courses, parks, athletic fields) | Handset irrigation                                     | 1 day    |
|  | All other activities                                   | 12 hours |
| Greenhouse ornamental plants; Shade house plants; Indoor plants, and Interiorscapes  | All activities   | 12 hours |

**For ornamental plants in residential, public, commercial, institutional, or industrial areas and recreational sites:**

- **DO NOT** allow public use of treated areas until sprays have dried.

## FIRST AID

**Take the container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.**

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

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

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

For product information call 1-800-960-4318 or visit our website at [www.gowanco.com](http://www.gowanco.com). In case of emergency involving a major spill, leak or fire call Chemtrec® at 1-800-424-9300. For medical emergencies call 1-888-478-0798.

## **TOXICOLOGICAL INFORMATION**

No specific antidote. Employ supportive care. Treatment should be based on judgment of the physician in response to reactions of the patient.

## **ENVIRONMENTAL PRECAUTIONS**

TOXIC to aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE.

Toxic to bees. Bees may be exposed through direct spray, spray drift, and residues on leaves, pollen and nectar in flowering crops and weeds. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance “Protecting Pollinators during Pesticide Spraying – Best Management Practices” on the Health Canada website ([www.canada.ca/pollinators](http://www.canada.ca/pollinators)). Follow crop specific directions for application timing.

For applications on crops that are highly attractive to pollinators (outdoor ornamentals [except coniferous evergreens and ornamental grasses]; caneberry; bushberry; low growing berry [except strawberry]; pome fruits; stone fruits; vine climbing small fruit [except grape]) or when using managed bees for pollination services:

Do not apply during the crop blooming period.

For applications on all other crops (except coniferous evergreens and ornamental grasses):

Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to evening when most bees are not foraging.

Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial arthropods in habitats next to the application site such as hedgerows and woodland.

Greenhouse use: Toxic to bees and other beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). May harm bees and other beneficial arthropods, including those used in greenhouse production. Avoid application when bees or other beneficial arthropods are in the treatment area.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

## **STORAGE**

Store this product away from food or feed.

## **DISPOSAL**

### **Recyclable Containers:**

DO NOT reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.

2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial/territorial requirements.

**Returnable Containers:**

DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

**Disposal of Unused/Unwanted Product:**

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for clean-up of spills.

**NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

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Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

### Personal Protective Clothing and Equipment

- Groundboom, manually pressurized handheld equipment, backpack sprayer: Wear coveralls over a long-sleeved shirt and long pants, socks, chemical-resistant footwear and chemical-resistant gloves during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab.
- Airblast: Wear coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, protective eyewear (goggles or faceshield), socks and chemical-resistant footwear during mixing, loading, application, clean-up and repair. In addition, wear chemical-resistant headgear during open-cab airblast application. Chemical-resistant headgear includes Sou'Wester hat, chemical-resistant rain hat or large brimmed waterproof hat and hood with sufficient neck protection. Gloves are not required during application within a closed cab.
- Mechanically-pressurized handheld equipment:
  - Outdoor Ornamentals: Wear coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, protective eyewear (goggles or faceshield), socks and chemical-resistant footwear during mixing, loading, application, clean-up and repair.
  - Greenhouse Ornamentals, Hops and Tree Nuts: Wear chemical-resistant coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, protective eyewear (goggles or faceshield), socks and chemical-resistant footwear during mixing, loading, application, clean-up and repair.
  - Mint, Berries and Orchard Crops (excluding Tree Nuts): **DO NOT** apply more than 12 L of product per person per day using mechanically-pressurized handheld equipment. This restriction is required to minimize exposure to the worker.
  - Wear chemical-resistant coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, protective eyewear (goggles or faceshield), socks, chemical-resistant footwear and a respirator with a NIOSH-approved organic-vapour-removing cartridge (with a prefilter) approved for pesticides, or a NIOSH-approved canister approved for pesticides during mixing, loading, application, clean-up and repair



Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not re-use them. Follow manufacturer's instructions for cleaning and maintaining personal protective equipment (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.
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|                                   | Handset irrigation                | 2 days   |
|                                   | All other activities              | 12 hours   |
| Low Growing Berry Subgroup 13-07G | Handset irrigation                | 2 days   |
|                                   | Harvesting                        | 1 day  |
|                                   | All other activities              | 12 hours   |
| Hops                              | Harvesting                        | 22 days  |
|                                   | Handset irrigation                | 1 day  |
|                                   | All other activities              | 12 hours   |
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|                                   | Handset irrigation                | 4 days   |
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| Fruiting Vegetables               | Harvesting and handset irrigation | 3 days   |
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|  |  |          |
|--|--|----------|
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| Tree Nuts  | Harvesting   | 7 days   |
|  | Scouting for all tree nuts and hand pruning for pecans   | 1 day    |
|  | All other activities   | 12 hours |
| Outdoor ornamental plants;<br>Established outdoor ornamental landscape plantings;<br><br>Ornamental plants in rights-of-way and other easements; Ornamental plants in recreational sites (such as campgrounds, golf courses, parks, athletic fields) | Handset irrigation   | 1 day    |
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**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further 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 centre or doctor for treatment advice.

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## TOXICOLOGICAL INFORMATION

No specific antidote. Employ supportive care. Treatment should be based on judgment of the physician in response to reactions of the patient.

## ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE.

Toxic to bees. Bees may be exposed through direct spray, spray drift, and residues on leaves, pollen and nectar in flowering crops and weeds. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance "Protecting Pollinators during Pesticide Spraying – Best Management Practices" on the Health Canada website ([www.canada.ca/pollinators](http://www.canada.ca/pollinators)). Follow crop specific directions for application timing.

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Do not apply during the crop blooming period.

For applications on all other crops (except coniferous evergreens and ornamental grasses):  
Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to evening when most bees are not foraging.

Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial arthropods in habitats next to the application site such as hedgerows and woodland.

Greenhouse use: Toxic to bees and other beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). May harm bees and other beneficial arthropods, including those used in greenhouse production. Avoid application when bees or other beneficial arthropods are in the treatment area.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

## **STORAGE**

Store this product away from food or feed.

## **DISPOSAL**

### **Recyclable Containers:**

DO NOT reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial/territorial requirements.

### **Returnable Containers:**

DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

### **Disposal of Unused/Unwanted Product:**

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for clean-up of spills.

## **DIRECTIONS FOR USE**

### **General Use Precautions**

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

DO NOT allow releases, effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.

**DO NOT** apply using handheld mist blower/airblast or handheld fogging equipment.

**DO NOT** apply in greenhouses, except on greenhouse ornamental plants.

**DO NOT** use on ornamentals grown for cut flowers.

**DO NOT** apply greenhouse processing water containing this product to field crops (food and feed).

**DO NOT** apply to interiorscapes or plantscapes in buildings when occupants and/or bystanders are present.

**DO NOT** apply this product in a way that will contact workers or other persons, either directly or through drift. For any requirements specific to your province or territory, consult the agency responsible for pesticide regulation.

**DO NOT** apply by air.

**DO NOT** apply by any type of irrigation system.

### **Tank Mixing**

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact [ ] Gowan Company at 1-800-960-4318 for information before applying any tank mix that is not specifically recommended on this label.

### **Mixing Instructions**

Shake well before using and agitate frequently while applying. If agitation is stopped for an extended period of time, the spray solution must be thoroughly re-mixed prior to further use. Maintain agitation during mixing.

In general, no additives are necessary for effective use of MAGISTER SC. MAGISTER SC may be tank mixed with non-ionic surfactants at a concentration of 0.25% v/v.

## **Application Directions**

### **Foliar Spray Application:**

Foliar applications may be made using properly calibrated ground sprayers. Thorough and uniform coverage of plants, with direct contact of the spray mixture to the target pests is required for satisfactory control.

Apply MAGISTER SC in sufficient water to ensure thorough coverage of fruit and foliage. Applications can be made with low or high volume spray equipment; however, thorough coverage is required for optimum control.

Do not apply where thorough coverage of plant is not possible. Applications made with less than thorough coverage may result in slower activity and/or less overall control from a single application than an application made with higher application volumes.

See application volume directions by crop in the Application Directions table.

Field sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

Airblast application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. DO NOT apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

### Spray Buffer Zones

A spray buffer zone is NOT required for uses with hand-held application equipment permitted on this label.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

| Method of application | Crop   | Spray Buffer Zones (metres) Required for the Protection of: |                  |                                     |                  |    |
|-----------------------|--|---|------------------|-------------------------------------|------------------|----|
|                       |  | Freshwater Habitat of Depths:                               |                  | Estuarine/Marine Habitat of Depths: |                  |    |
|                       |  | Less than 1 m   | Greater than 1 m | Less than 1 m                       | Greater than 1 m |    |
| Field sprayer         | Outdoor ornamental plants, including non-bearing fruit and nut trees (field grown, outdoor nursery, shadehouse) and established ornamental landscape plantings | 20  | 4                | 4                                   | 2                |    |
|                       | Fruiting vegetables (CG 8-09); Caneberries (CSG 13-07A); Bushberries (CSG 13-07B); Low growing berries (CSG 13-07G);   | 20  | 5                | 5                                   | 3                |    |
|                       | Cucurbit vegetables (CG 9); Pome fruits (CG 11-09); Stone fruits (CG 12-09); Small fruit vine climbing (CSG 13-07F); Tree nuts, hops, mint                     | 25  | 5                | 5                                   | 3                |    |
| Airblast              | Outdoor ornamental plants, including non-bearing fruit and nut   | Early growth stage  | 50               | 35                                  | 35               | 25 |

|  |  |                    |    |    |    |    |
|--|--|--------------------|----|----|----|----|
|  | trees (field grown, outdoor nursery, shadehouse) and established ornamental landscape plantings  | Late growth stage  | 40 | 25 | 25 | 15 |
|  | Fruiting vegetables (CG 8-09); Caneberries (CSG 13-07A); Bushberries (CSG 13-07B); Low growing berries (CSG 13-07G);                       | Early growth stage | 55 | 35 | 35 | 30 |
|  |  | Late growth stage  | 45 | 25 | 30 | 20 |
|  | Cucurbit vegetables (CG 9); Pome fruits (CG 11-09); Stone fruits (CG 12-09); Small fruit vine climbing (CSG 13-07F); Tree nuts, hops, mint | Early growth stage | 55 | 35 | 40 | 30 |
|  |  | Late growth stage  | 45 | 25 | 30 | 20 |

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

## Crops and Application Rates

### Agricultural

| <b>BUSHBERRIES (CROP SUBGROUP 13-07B)</b>  |                    |   |
|--|--------------------|---|
| Aronia berry; blueberry, highbush; blueberry, lowbush; buffalo currant; Chilean guava; cranberry, highbush; currant, black; currant, red; elderberry; European barberry; gooseberry; honeysuckle, edible; huckleberry; jostaberry; Juneberry (Saskatoon berry); lingonberry; native currant; salal; sea buckthorn; cultivars, varieties, and/or hybrids of these |                    |   |
| <b>Pest</b>  | <b>Rate (L/ha)</b> | <b>Comments</b>   |
| Blueberry bud mite ( <i>Acalitus vaccinii</i> )  | 1.75               | Apply in at least 500 litres per hectare. Use higher rates for heavier mite pressure.   |
| Twospotted spider mite ( <i>Tetranychus urticae</i> ),<br>European red mite ( <i>Panonychus ulmi</i> ),<br>McDaniel spider mite ( <i>Tetranychus mcdanieli</i> ),<br>Pacific spider mite ( <i>Tetranychus pacificus</i> )  | 1.75 – 2.34        | <ul style="list-style-type: none"> <li>Do not make more than one application per year.</li> <li>Do not exceed application rate of 2.34 L/ha of product per year.</li> <li>Toxic to bees. DO NOT apply during the crop blooming period.</li> </ul> |

| <b>CANEBERRIES (CROP SUBGROUP 13-07A)</b>   |                    |                 |
|---|--------------------|-----------------|
| Blackberry (including Andean blackberry, arctic blackberry, bingleberry, black satin berry, boysenberry, brombeere, California blackberry, Chesterberry, Cherokee blackberry, Cheyenne blackberry, common blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, evergreen blackberry, Himalayaberry, hullberry, lavacaberry, lowberry, Lucretiaberry, mammoth blackberry, marionberry, mora, mures deronce, nectarberry, northern dewberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry, southern dewberry, tayberry, youngberry, zarzamora); loganberry; raspberry, black and red; wild raspberry; cultivars, varieties, and/or hybrids of these |                    |                 |
| <b>Pest</b>   | <b>Rate (L/ha)</b> | <b>Comments</b> |

|   |             |  |
|---|-------------|--|
| Twospotted spider mite ( <i>Tetranychus urticae</i> ),<br>European red mite ( <i>Panonychus ulmi</i> ),<br>McDaniel spider mite ( <i>Tetranychus mcdanieli</i> ),<br>Pacific spider mite ( <i>Tetranychus pacificus</i> ) | 1.75 – 2.34 | Apply in at least 500 litres per hectare. Use higher rates for heavier mite pressure.<br><br><ul style="list-style-type: none"> <li>Do not make more than one application per year.</li> <li>Do not exceed application rate of 2.34 L/ha of product per year.</li> <li>Toxic to bees. DO NOT apply during the crop blooming period.</li> </ul> |
|---|-------------|--|

| <b>CUCURBIT VEGETABLES (CROP GROUP 9)</b>  |                    |   |
|--|--------------------|---|
| 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, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon); pumpkin; squash, summer (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini); squash, winter (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); watermelon |                    |   |
| <b>Pest</b>  | <b>Rate (L/ha)</b> | <b>Comments</b>   |
| Twospotted spider mite ( <i>Tetranychus urticae</i> ),<br>McDaniel spider mite ( <i>Tetranychus mcdanieli</i> ),<br>Pacific spider mite ( <i>Tetranychus pacificus</i> )   | 1.75 – 2.34        | Apply in at least 250 litres per hectare. Use higher rates for heavier mite pressure.<br><br><ul style="list-style-type: none"> <li>Do not make more than one application per year.</li> <li>Do not exceed application rate of 2.63 L/ha of product per year.</li> <li>Toxic to bees. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to evening when most bees are not foraging. When using managed bees for pollination services, DO NOT apply during the crop blooming period (onset of flowering until after petal fall is complete).</li> </ul> |
| Powdery mildew ( <i>Golovinomyces cichoracearum</i> and <i>Podosphaera xanthii</i> )   | 1.75 – 2.63        |   |

| <b>FRUITING VEGETABLES (CROP GROUP 8-09)</b>   |                    |   |
|--|--------------------|---|
| African eggplant; currant tomato; eggplant; garden huckleberry; goji berry; groundcherry; martynia; okra; pea eggplant; pepino; pepper, bell; pepper, non-bell; scarlet eggplant; sunberry; tomatillo; tomato; cultivars, varieties, and/or hybrids of these |                    |   |
| <b>Pest</b>  | <b>Rate (L/ha)</b> | <b>Comments</b>   |
| Twospotted spider mite ( <i>Tetranychus urticae</i> ),<br>McDaniel spider mite ( <i>Tetranychus mcdanieli</i> ),<br>Pacific spider mite ( <i>Tetranychus pacificus</i> )   | 1.75 – 2.34        | Apply in at least 250 litres per hectare. Use higher rates for heavier mite pressure.<br><br><ul style="list-style-type: none"> <li>Do not make more than one application per year.</li> <li>Do not exceed application rate of 2.34 L/ha of product per year.</li> <li>Toxic to bees. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to evening when most bees are not foraging. When using managed bees for pollination services, DO NOT apply during the crop blooming period.</li> </ul> |

| <b>LOW GROWING BERRIES (CROP SUBGROUP 13-07G)</b>  |                    |                 |
|--|--------------------|-----------------|
| Bearberry; bilberry; blueberry, lowbush; cloudberry; cranberry; lingonberry; muntries; partridgeberry; strawberry; cultivars, varieties, and/or hybrids of these |                    |                 |
| <b>Pest</b>  | <b>Rate (L/ha)</b> | <b>Comments</b> |



|  |             |   |
|--|-------------|---|
| Twospotted spider mite ( <i>Tetranychus urticae</i> ),<br>McDaniel spider mite ( <i>Tetranychus mcdanieli</i> ),<br>Pacific spider mite ( <i>Tetranychus pacificus</i> ) | 1.75 – 2.34 | Apply in at least 500 litres per hectare. Use higher rates for heavier mite pressure. <ul style="list-style-type: none"> <li>Do not make more than one application per year.</li> <li>Do not exceed application rate of 2.34 L/ha of product per year.</li> <li>Except strawberry: Toxic to bees. DO NOT apply during the crop blooming period.</li> <li>Strawberry: Toxic to bees. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to evening when most bees are not foraging. When using managed bees for pollination services, DO NOT apply during the crop blooming period.</li> </ul> |
|--|-------------|---|

| <b>HOPS</b>  |                    |  |
|--|--------------------|--|
| <b>Pest</b>  | <b>Rate (L/ha)</b> | <b>Comments</b>  |
| Twospotted spider mite ( <i>Tetranychus urticae</i> ),<br>McDaniel spider mite ( <i>Tetranychus mcdanieli</i> ),<br>Pacific spider mite ( <i>Tetranychus pacificus</i> ) | 1.75 – 2.34        | Apply in at least 1000 litres per hectare. Use higher rates for heavier mite pressure. <ul style="list-style-type: none"> <li>Do not make more than one application per year.</li> <li>Do not exceed application rate of 2.63 L/ha of product per year.</li> </ul> |
| Powdery mildew ( <i>Podosphaera macularis</i> ) (Suppression)  | 1.75 – 2.63        |  |

| <b>MINT</b>   |                    |   |
|---|--------------------|---|
| <b>Pest</b>   | <b>Rate (L/ha)</b> | <b>Comments</b>   |
| McDaniel spider mite ( <i>Tetranychus mcdanieli</i> ),<br>Pacific spider mite ( <i>Tetranychus pacificus</i> ),<br>Twospotted spider mite ( <i>Tetranychus urticae</i> ). | 1.75 – 2.34        | Apply in at least 200 litres per hectare. Use higher rates for heavier mite pressure. <ul style="list-style-type: none"> <li>Do not make more than one application per year.</li> <li>Do not exceed application rate of 2.34 L/ha of product per year.</li> </ul> |

| <b>POME FRUITS (CROP GROUP 11-09)</b>   |                    |   |
|---|--------------------|---|
| <b>Apple:</b> azarole; crabapple; mayhaw; medlar; pear; pear, Asian; quince; quince, Chinese; quince, Japanese; tejocote; cultivars, varieties, and/or hybrids of these   |                    |   |
| <b>Pest</b>   | <b>Rate (L/ha)</b> | <b>Comments</b>   |
| Apple rust mite ( <i>Aculus schlechtendali</i> ),<br>Pear rust mite ( <i>Epirimerus pyri</i> )  | 1.75               | Apply in at least 500 litres per hectare. Use higher rates for heavier mite pressure. <ul style="list-style-type: none"> <li>Do not make more than one application per year.</li> <li>Do not exceed application rate of 2.63 L/ha of product per year.</li> <li>Toxic to bees. DO NOT apply during the crop blooming period.</li> </ul> |
| European red mite ( <i>Panonychus ulmi</i> ),<br>McDaniel spider mite ( <i>Tetranychus mcdanieli</i> ),<br>Pacific spider mite ( <i>Tetranychus pacificus</i> ),<br>Twospotted spider mite ( <i>Tetranychus urticae</i> ) | 1.75 – 2.34        |   |

|  |             |  |
|--|-------------|--|
| Pear psylla ( <i>Cacopsylla pyri</i> ) on pears only | 1.75 – 2.63 |  |
| Powdery mildew ( <i>Podosphaera leucotricha</i> )    |             |  |

| SMALL FRUIT VINE CLIMBING, EXCEPT FUZZY KIWIFRUIT (CROP SUBGROUP 13-07F)  |             |   |
|---|-------------|---|
| Amur river grape; gooseberry; grape; kiwifruit, hardy; maypop; schisandra berry; cultivars, varieties, and/or hybrids of these  |             |   |
| Pest  | Rate (L/ha) | Comments  |
| European red mite ( <i>Panonychus ulmi</i> ),<br>McDaniel spider mite ( <i>Tetranychus mcdanieli</i> ),<br>Pacific spider mite ( <i>Tetranychus pacificus</i> ),<br>Twospotted spider mite ( <i>Tetranychus urticae</i> ) | 1.75 – 2.34 | Apply in at least 500 litres per hectare. Use higher rates for heavier mite pressure. <ul style="list-style-type: none"> <li>Do not make more than one application per year.</li> <li>Do not exceed application rate of 2.63 L/ha of product per year.</li> <li>Except grape: Toxic to bees. DO NOT apply during the crop blooming period.</li> <li>Grape: Toxic to bees. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to evening when most bees are not foraging. When using managed bees for pollination services, DO NOT apply during the crop blooming period.</li> </ul> |
| Powdery mildew ( <i>Erysiphe necator</i> ) on Amur river grape and grape only   | 1.75 – 2.63 |   |

| STONE FRUITS (CROP GROUP 12-09)  |             |  |
|--|-------------|--|
| Apricot; apricot, Japanese; 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 |             |  |
| Pest   | Rate (L/ha) | Comments   |
| European red mite ( <i>Panonychus ulmi</i> ),<br>McDaniel spider mite ( <i>Tetranychus mcdanieli</i> ),<br>Pacific spider mite ( <i>Tetranychus pacificus</i> ),<br>Twospotted spider mite ( <i>Tetranychus urticae</i> )  | 1.75 – 2.34 | Apply in at least 500 litres per hectare. Use higher rates for heavier mite pressure. <ul style="list-style-type: none"> <li>Do not make more than one application per year.</li> <li>Do not exceed application rate of 2.63 L/ha of product per year.</li> <li>Do not apply until all varieties in the orchard to be treated are through petal fall.</li> <li>Toxic to bees. DO NOT apply during the crop blooming period.</li> </ul> |
| Powdery mildew ( <i>Podosphaera clandestina</i> )  | 1.75 – 2.63 |  |

| TREE NUTS (CROP GROUP 14-11)  |             |   |
|---|-------------|---|
| Almond; beechnut; bur oak; butternut; chestnut; chinquapin; ginkgo; hazelnut (filbert); heartnut; hickory nut; Japanese horse-chestnut; monkey puzzle nut; pecan; pine nut; walnut, black; walnut, English; yellowhorn; cultivars, varieties, and/or hybrids of these |             |   |
| Pest  | Rate (L/ha) | Comments  |
| European red mite ( <i>Panonychus ulmi</i> ),<br>McDaniel spider mite ( <i>Tetranychus mcdanieli</i> ),<br>Pacific spider mite ( <i>Tetranychus pacificus</i> ),<br>Two-spotted spider mite ( <i>Tetranychus urticae</i> )  | 1.75 – 2.34 | Apply in at least 1000 liters per hectare. Slower application speed helps ensure good coverage. Use higher rates for heavier mite pressure. <ul style="list-style-type: none"> <li>Do not make more than one application per year.</li> <li>Do not exceed application rate of 2.34 L/ha of product per year or 2.63 L/ha of product per year on almond only for powdery mildew.</li> <li>Do not apply until all varieties in the</li> </ul> |

|  |             |   |
|--|-------------|---|
| Powdery mildew ( <i>Podosphaera leucotricha</i> , <i>P. clandestina</i> ) on almond only | 1.75 – 2.63 | orchard to be treated are through petal fall. |
|--|-------------|---|

**Rotational Crop Information:**

Crops may be planted according to the following table that shows the required time interval after application of Magister SC Miticide.

| Rotational Crops                | Planting Time from Last Application |
|---------------------------------|-------------------------------------|
| All crops listed on this label  | Immediately                         |
| Root, tuber and bulb vegetables | 120 days                            |
| All other crops                 | 30 days                             |

**Ornamentals**

| Ornamental plants, including fruit and nut tree seedlings (greenhouse)  |                                   |   |
|---|-----------------------------------|---|
| Pest  | Rate                              | Comments  |
|   | (mL product / 400 L spray volume) |   |
| Twospotted spider mite ( <i>Tetranychus urticae</i> ),<br>European red mite ( <i>Panonychus ulmi</i> ),<br>McDaniel spider mite ( <i>Tetranychus mcdanieli</i> ),<br>Pacific spider mite ( <i>Tetranychus pacificus</i> ) | 300-750                           | <ul style="list-style-type: none"> <li>Do not make more than one application per crop cycle or two applications per year with a minimum 14-day reapplication interval.</li> <li>Apply in a maximum of 1000 L water/ha and ensure thorough coverage of the foliage.</li> <li>Do not exceed 2.5 L/ha per crop cycle or 5.0 L/ha per year.</li> <li>Toxic to bees. Avoid application when bees are in the treatment area.</li> </ul> |
| Sweetpotato whitefly ( <i>Bemisia tabaci</i> )  | 750-1000                          |   |

| Ornamental plants, including non-bearing fruit and nut trees (field grown, outdoor nursery, shadehouse)                         |                                   |   |
|---|-----------------------------------|---|
| Pest  | Rate                              | Comments  |
|   | (mL product / 400 L spray volume) |   |
| Twospotted spider mite ( <i>Tetranychus urticae</i> ),<br>European red mite ( <i>Panonychus ulmi</i> ),<br>McDaniel spider mite | 300-750                           | <ul style="list-style-type: none"> <li>Do not make more than one application per year.</li> <li>Apply in a maximum of 1000 L water/ha and ensure thorough coverage of the foliage.</li> <li>Do not exceed 1.875 L/ha per year.</li> <li>Except coniferous evergreens and</li> </ul> |

|  |  |  |
|--|--|--|
| ( <i>Tetranychus mcdanieli</i> ),<br>Pacific spider mite<br>( <i>Tetranychus pacificus</i> ) |  | ornamental grasses: Toxic to bees. DO NOT apply during the crop blooming period. |
|--|--|--|

| Indoor Plants and Plantscapes, including ornamental plants in residences, commercial buildings and shopping malls.  |                                   |   |
|---|-----------------------------------|---|
| Pest  | Rate                              | Comments  |
|   | (mL product / 400 L spray volume) |   |
| Twospotted spider mite<br>( <i>Tetranychus urticae</i> ),<br>European red mite<br>( <i>Panonychus ulmi</i> ),<br>McDaniel spider mite<br>( <i>Tetranychus mcdanieli</i> ),<br>Pacific spider mite<br>( <i>Tetranychus pacificus</i> ) | 300-750                           | <ul style="list-style-type: none"> <li>Do not make more than two applications per year with a minimum 14-day reapplication interval.</li> <li>Apply in a maximum of 1000 L water/ha and ensure thorough coverage of the foliage.</li> <li>Do not exceed 2.5 L/ha per application or 5.0 L/ha per year.</li> </ul> |
| Sweetpotato whitefly<br>( <i>Bemisia tabaci</i> )   | 750-1000                          |   |

| Established Ornamental Landscape Plantings, including ornamental plants in residential areas, public areas, commercial areas, institutional areas, industrial areas, rights of way and other easements, and recreational sites such as campgrounds, golf courses, parks and athletic fields |                                   |  |
|---|-----------------------------------|--|
| Pest  | Rate                              | Comments   |
|   | (mL product / 400 L spray volume) |  |
| Twospotted spider mite<br>( <i>Tetranychus urticae</i> ),<br>European red mite<br>( <i>Panonychus ulmi</i> ),<br>McDaniel spider mite<br>( <i>Tetranychus mcdanieli</i> ),<br>Pacific spider mite<br>( <i>Tetranychus pacificus</i> )   | 300-750                           | <ul style="list-style-type: none"> <li>Do not make more than one application per year.</li> <li>Apply in a maximum of 1000 L water/ha and ensure thorough coverage of the foliage.</li> <li>Do not exceed 1.875 L/ha per year.</li> <li>Except coniferous evergreens and ornamental grasses: Toxic to bees. DO NOT apply during the crop blooming period.</li> </ul> |

### Resistance Management Recommendations

For resistance management, please note that Magister SC Miticide contains a Group 21 insecticide/acaricide and Group 39 fungicide. Any insect/mite/fungi population may contain individuals naturally resistant to Magister SC Miticide and other Group 21 insecticides/acaricides and Group 39 fungicides. The resistant individuals may dominate the insect/mite/fungi population if this group of insecticides/acaricides/fungicides is used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

- Where possible, rotate the use of Magister SC Miticide or other Group 21 insecticides/acaricides and Group 39 fungicide with different groups that control the same pests.
- Use tank mixtures with insecticides/acaricides/fungicide from a different group when such use is permitted.

- Insecticide/acaricide/fungicide use should be based on an IPM program that includes scouting and record keeping, and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- 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 Gowan Company at 1-800-960-4318.

#### **NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.