RESTRICTED USE PESTICIDE
Toxic to fish and aquatic organisms
For retail sale to and use only by certified applicators, or persons under their
direct supervision and only for those uses covered by the certified applicator’s
certification.

GROUP 63  Insecticides

GLADIATOR
INSECTICIDE / MITICIDE

EPA Reg. No. 279-3441  EPA Est. No.279-NY-1

Active Ingredient: By Wt.
Zeta-Cypermethrin:* ..............................................2.01%
Avermectin B1:** ..................................................0.91%
Other Ingredients:** .......................................... 97.08%
100.0%

*Cis/Trans isomer ratio: Max 75% (+/-) cis and Min. 25% (+/-) trans
**CAS No. 65195-56-4 and No. 65195-55-3
This product contains 0.172 pounds active ingredient zeta-cypermethrin and
0.078 pounds active ingredient Avermectin B1 per gallon.
Contains petroleum distillate.

KEEP OUT OF REACH OF CHILDREN
CAUTION
See other panels for additional precautionary information

FIRST AID

If swallowed
• Call a poison control center or doctor immediately for treatment advice.
• Do not give any liquid to the person.
• Do not induce vomiting unless told to do so by a poison control center or doctor.
• Do not give anything by mouth to an unconscious person.

If 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.

HOTLINE NUMBER
Have the product container or label with you when calling a poison
control center or doctor, or going for treatment. You may also con-
tact 1-800-331-3148 for emergency medical treatment information.

NOTE TO PHYSICIAN
This product contains a pyrethroid, avermectins, and petroleum dis-
tillate. May pose an aspiration pneumonia hazard. Treatment is
symptomatic. Have a person sip a glass of water if able to swallow.
If toxicity from exposure has progressed to severe vomiting, the
extent of resultant fluid and electrolyte imbalance should be gauged.
Since avermectins are believed to enhance GABA activity in ani-
mals, it is probably wise to avoid drugs that enhance GABA activity
(barbiturates, benzodiazepines, and volproic acid).

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Sold By
FMC Corporation
2929 Walnut Street
Philadelphia PA 19104

Net Contents: 1 Gallon
PRECAUTIONARY STATEMENTS

Environmental Hazards

This pesticide is extremely toxic to fish, aquatic invertebrates, oysters and shrimp, and terrestrial wildlife. 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 make applications when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

The use of this product is prohibited in areas where its application may result in exposure to endangered species. Prior to use in a particular county contact the local extension service for procedures and precautions to use to protect endangered species.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

The use of this product may pose a risk to threatened and endangered species of fish, amphibians, crustaceans (including fresh water shrimp, and insects). All use of this product in the state of California shall comply with the recommendations of the California Endangered Species Project. Before using this product in California, consult with your agriculture commissioner to determine use limitations that apply in your area.

This product may impact surface water quality due to runoff on rain water. This is especially true for poorly draining soils and soils with shallow ground water. The responsible pesticide is regulated medium potential for reaching both surface water and aquatic sediment via runoff for several weeks to months after application. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of abamectin from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecast to occur within 48 hours.

Attention: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

DIRECTIONS FOR USE

Restricted Use Pesticide

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Gladiator Insecticide/Miticide is an emulsifiable in water formulation with two modes of action. Gladiator Insecticide/Miticide will control insect pests and mite pests on the crops listed within this label when applied according to the Directions of Use unless otherwise directed by registered supplemental labeling. Thorough coverage is essential for good insect and mite control.

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 application.

Rate of application is variable according to the pest. Use lower rates under light to moderate infestations; higher rates under heavy insect pressure. Airdrives generally require higher rates.

Chemigation:

Do not apply through any type of irrigation system.

Adjuvants:

The use of a spray adjuvant that meets or exceeds CDPA Adjuvant Certification is recommended for optimum performance. Refer to the individual crop recommendation sections of this label for specific adjuvant type and use rates. Do not use binder or sticker type adjuvants.

Resistance Management:

Gladiator Insecticide/Miticide contains Group 3 and Group 6 insecticides. Combining insecticides with different modes of action is a resistance management strategy. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product, or other products with similar modes of action, this product may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area. More than 2 consecutive applications of Gladiator or another product containing avermectin or a pyrethroid is not recommended.

Rotational Crops:

For crops that have zeta-cypermethrin and avermectin tolerances the plant back is immediate. All other crops may be rotated 30 days following the final application.

Buffer Zones:

Do not apply with ground application equipment within 25 ft. of or with aircraft within 150 ft. of lakes, reservoirs, rivers, permanent streams,
marshes, pot holes, natural ponds, estuaries, or commercial fish farm ponds.

In New York State this product cannot be applied within 100 feet (using ground equipment) of coastal marshes or streams that drain into coastal marshes.

Vegetative Buffer Zones
Construct and maintain a minimum 25-foot-wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds).

Only apply products containing zeta-cypermethrin onto fields where a maintained vegetative buffer strip of at least 25 feet exists between the field and down gradient aquatic habitat.


Buffer Zone for Ground Application (groundboom or air-blast)
Do not apply within 25 feet of aquatic habitats (such as, but not limited to lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds).

Buffer Zone for non-ULV (ultra low volume) aerial application
Do not apply within 150 feet of aquatic habitats such as, but not limited to lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds).

Buffer Zone for ULV (ultra low volume) aerial application
Do not apply within 450 feet of aquatic habitats such as, but not limited to lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds).

Spray Drift Requirements
Wind Direction and Speed
Only apply this product if the wind direction favors on-target deposition. Do not apply when the wind velocity exceeds 15 mph or is below 2 mph. Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application must be avoided below 2 mph due to variable wind direction and high inversion potential.

Temperature Inversion
Gladiator Insecticide/Miticide application must not be made during a temperature inversion because the potential for drift is high. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. Temperature inversions are calm on calm nights. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface. Smoke that layers and moves laterally indicates an inversion.

Droplet Size
Use only Medium or coarse spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

Additional Requirements for Ground Applications
Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application. For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy. Apply Gladiator Insecticide/Miticide to deliver sufficient water to ensure thorough coverage.

Additional Requirements for Aerial Applications
The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter.

Flight speed and nozzle orientation must be considered in determining droplet size. Spray must be released at the lowest height consistent with pest control and flight safety. Does not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

Observe the following precautions when using ground application to spray tree crops or hops in the vicinity of aquatic areas such as lakes, reservoirs, permanent streams, marshes, potholes, natural ponds, estuaries, or commercial fish ponds:

Do not apply within 110 ft. upwind of aquatic areas or when wind speed is above 8 mph.

Spray last 3 rows windward of aquatic areas using nozzles on one side only, with spray directed away from the aquatic areas.

Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove/orchard when spraying the outside row. Shut off nozzles when turning at ends of row and passing tree gaps in row.

Do not apply using aerial application in New York State.
Do not apply Gladiator Insecticide/Miticide using aerial applications to the following crops: Apples, Celeriac, Grapes, Pears, Stone Fruit Group and the Tree Nut Group.

Tank-Mixture
Gladiator Insecticide/Miticide may be applied in tank mixtures with other products approved for use on registered crops. Observe all restrictions and precautions which appear on the labels of these products. Test for compatibility of products before mixing.

Maximum Usage when Applying Avermectin Products to the Same Crops Within the Same Season

<table>
<thead>
<tr>
<th>Crop</th>
<th>Max Seasonal Total when apply Avermectin (lbs ai/a)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Gladiator Insecticide/Miticide</td>
</tr>
<tr>
<td>Apples</td>
<td>0.024</td>
</tr>
<tr>
<td>Avocados</td>
<td>0.046</td>
</tr>
<tr>
<td>Celeriac</td>
<td>0.036</td>
</tr>
<tr>
<td>Citrus – Crop Group 10</td>
<td>0.024</td>
</tr>
<tr>
<td>Cotton</td>
<td>0.024</td>
</tr>
<tr>
<td>Cucurbits – Crop Group 9</td>
<td>0.036</td>
</tr>
<tr>
<td>Dry Bean</td>
<td>0.036</td>
</tr>
<tr>
<td>Fruiting Vegetables – Crop Group 8</td>
<td>0.036</td>
</tr>
<tr>
<td>Grapes</td>
<td>0.024</td>
</tr>
<tr>
<td>Leafy Vegetables – Crop Group 4</td>
<td>0.036</td>
</tr>
<tr>
<td>Onion, bulb – Crop Subgroup 3-07A</td>
<td>0.036</td>
</tr>
<tr>
<td>Pears</td>
<td>0.024</td>
</tr>
<tr>
<td>Stone Fruit – Crop Group 12</td>
<td>0.036</td>
</tr>
<tr>
<td>Tuberous and Corm Vegetables – Crop Subgroup 1C</td>
<td>0.036</td>
</tr>
<tr>
<td>Tree Nut – Crop Group 14</td>
<td>0.036</td>
</tr>
</tbody>
</table>
Maximum Usage when Applying Zeta-Cypermethrin and Cypermethrin Products to the Same Crops Within the Same Season

Do not apply more than the maximum seasonal total for any product when used alone AND do not apply more than the combined maximum seasonal total of cypermethrin and zeta-cypermethrin when using more than one product containing these active ingredients as outlined in the table below.

<table>
<thead>
<tr>
<th>Crop</th>
<th>PHI</th>
<th>Target Pests</th>
<th>Rate</th>
<th>Special Directions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Apple Curculio, Apple Maggot, Codling Moth, European Apple Sawfly, European Red Mite, Green Fruitworm, Japanese Beetle, Leafroller app, Lesser Appleworm, McDaniell Spider Mite, Oblique Banded Leafroller, Oriental Fruit Moth, Pandemis, Pear Psylla, Plum Curculio, Potato Leafroller, Redbandened Leafroller, Rosy Apple Aphid, San Jose Scale, Spirea Aphid, Slink Bugs, Tarnished Plant Bug, Teniform Leafminer, Trisetated Spider Mite, Tufted Apple Bud Moth, Vierlegated Leafroller, White Apple Leafroller</td>
<td>Concentrate Sprays 19 fl ounces per acre</td>
<td>Method of Application: Broadcast ground only (minimum 40 gallons per acre). Timing: Begin applications at pink and/or petal fall through first cover to protect developing fruit and foliage from the target insect pests and/or mite species common to the production area. Timing and frequency of applications should be based upon insect population densities and crop. Avoid applications when honey bees are actively foraging by applying during the early morning or evening hours. Application Interval: Do not make applications less than 21 days apart. Adjuvants: Surfactants can improve pest control. Do not use binder or sticker type surfactants. Vegetable oil can be used as a spray additive (1 qt/acre). Use of a horticulture spray oil fewer than 14 days before or after applying Captan® or after sulfur-containing products can result in phytotoxicity and crop loss. A nonionic surfactant is recommended to avoid fruit injury such as russetting on certain varieties. Spider Mites: For better residual control of spider mites, applications should be made as close as possible to petal fall on newer leaves. Applications for spider mite control should be limited to a period from petal fall through 6 weeks following petal fall. Heavy mite pressure may need additional miticide for effective control. Apply before mites reach a threshold of 5 per leaf. Teniform Leafminer: Apply targeting egg and early sap feeder stages of first and second generation teniform leafminers when local thresholds are reached. Do not apply during bloom. White Apple Leafhopper (not for use west of Rocky Mountains): Application limited to first generation white apple leafhopper. Apply soon after petal fall.</td>
</tr>
<tr>
<td>Crop</td>
<td>PHI</td>
<td>Target Pests</td>
<td>Rate</td>
<td>Special Directions</td>
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</tr>
<tr>
<td>Avocado</td>
<td>14 days</td>
<td>Ambrosia beetle (adults)</td>
<td>18 fl ounces per acre</td>
<td>Method of Application</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Leafhopper</td>
<td></td>
<td>Timing</td>
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<td></td>
<td></td>
<td>Avocado Leafroller</td>
<td></td>
<td>Application Interval</td>
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<tr>
<td></td>
<td></td>
<td>Avocado Loopers</td>
<td></td>
<td>Adjuvants</td>
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<tr>
<td></td>
<td></td>
<td>Avocado Tree</td>
<td></td>
<td>Thrips</td>
</tr>
</tbody>
</table>

**Restrictions:**

1. Do not apply within 7 days of harvest.
2. Do not apply more than 19 fl oz of Gladiator Insecticide/Miticide per acre per application.
3. Do not apply more than 57 fl oz of Gladiator Insecticide/Miticide per acre annually. Refer to seasonal max tables at the beginning of the label when making additional applications of other products containing either zeta-cypermethrin or avermectin.
4. Do not make more than 2 consecutive applications of Gladiator Insecticide/Miticide or any other product containing avermectin or zeta-cypermethrin.
5. Do not make applications less than 7 days apart.

**Grazing Restrictions:** Do not allow livestock to graze in treated orchards or feed treated foliage to livestock.

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<table>
<thead>
<tr>
<th>Crop</th>
<th>PHI</th>
<th>Target Pests</th>
<th>Rate</th>
<th>Special Directions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Celeriac</td>
<td>7 days</td>
<td>Aphid spp.</td>
<td>19 fl ounces per acre</td>
<td>Method of Application</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Armyworm spp.</td>
<td></td>
<td>Application Interval</td>
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<tr>
<td></td>
<td></td>
<td>Cabbageworm</td>
<td></td>
<td>Adjuvants</td>
</tr>
</tbody>
</table>

**Restrictions:**

1. Do not apply within 7 days of harvest.
2. Do not apply more than 19 fl oz of Gladiator Insecticide/Miticide per acre per application (or 0.012 lb ai/A/application of any product containing avermectin or 0.026 lb ai/A/application of any product containing zeta-cypermethrin).
3. Do not apply more than 57 fl oz of Gladiator Insecticide/Miticide per acre annually. Refer to seasonal max tables at the beginning of the label when making additional applications of other products containing either zeta-cypermethrin or avermectin.
4. Do not make more than 2 consecutive applications of Gladiator Insecticide/Miticide or any other product containing avermectin or zeta-cypermethrin.
5. Do not make applications less than 7 days apart.
6. Do not apply using aerial applications.
<table>
<thead>
<tr>
<th>Crop Group</th>
<th>PHI</th>
<th>Target Pests</th>
<th>Rate</th>
<th>Special Directions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citrus Group 10 Including: Calamondin, Citrus citron, Citrus hybrids (includes clementine, tangarp, tangeri, Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Sour orange, Sweet orange, Pummelo, and Satsuma mandarin</td>
<td>7 days</td>
<td>Armyworm, Beet</td>
<td>19 fl ounces per acre</td>
<td>Method of Application: Ground application is allowed for all pests. Apply by ground equipment using sufficient water to obtain full coverage of foliage in a minimum of 20 gallons per acre. For aerial application use a minimum of 38 fl oz of finished spray per acre. Timing: Apply as required by scouting. Restrictions: 2. Do not apply more than 19 fl oz of Gladiator Insecticide/Miticide per acre. 3. Do not make more than 2 consecutive applications of Gladiator Insecticide/Miticide or any other product containing avermectins or zeta-cypermethrin.</td>
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<tr>
<td></td>
<td></td>
<td>Asian Citrus Psyllid</td>
<td></td>
<td>Use a minimum of 2 gallons per acre in a low volume concentrate spray for ground application.</td>
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<tr>
<td></td>
<td></td>
<td>Asian Cockroach</td>
<td></td>
<td>For best results apply in the “DIRECTOR FOR USE” section of this label.</td>
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<tr>
<td></td>
<td></td>
<td>Blue-Green Citrus Root Weevils</td>
<td></td>
<td>Restrictions: 1. Do not apply within 20 days of harvest. 2. Do not apply more than 19 fl oz of Gladiator Insecticide/Miticide per acre per application. 3. Do not apply more than 38 fl oz of Gladiator Insecticide/Miticide per acre annually. Refer to seasonal max tables at the beginning of the label when making additional applications of other products containing either zeta-cypermethrin or avermectin. 4. Do not make applications less than 30 days apart. 5. For resistance management do not use Gladiator Insecticide/Miticide in citrus nurseries. 6. Aerial application is permitted only for citrus leaffminer and Asian citrus psyllid control. 7. Aerial applications are not allowed in California. Grazing Restrictions: Do not allow livestock to graze or feed treated foliage to livestock.</td>
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<tr>
<td></td>
<td></td>
<td>Broad Mite</td>
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<td></td>
<td></td>
<td>Citrus Bud Mite</td>
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<td></td>
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<td>Citrus Leafminer</td>
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<td>Citrus Rust Mite</td>
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<td>Citrus Thrips</td>
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<td></td>
<td></td>
<td>Cutworms</td>
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<td></td>
<td></td>
<td>Diabrotica Root Weevil</td>
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<td></td>
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<td>Fire Ants</td>
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<td></td>
<td></td>
<td>Fuller Rose Beetle</td>
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<td></td>
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<td>Glassy-Winged Sharpshooter</td>
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<td></td>
<td></td>
<td>Grasshopper</td>
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<td></td>
<td></td>
<td>Kahyid</td>
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<td></td>
<td></td>
<td>Leafhoppers</td>
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<td>Leafrollers</td>
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<td></td>
<td></td>
<td>Little Leaf Notcher</td>
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<td></td>
<td></td>
<td>Looppers</td>
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<td></td>
<td></td>
<td>Orange Tortrix</td>
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<td></td>
<td>Orangedog</td>
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<tr>
<td></td>
<td></td>
<td>Caterpillars</td>
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<td></td>
<td></td>
<td>Plantbugs</td>
<td></td>
<td></td>
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</tbody>
</table>

**Method of Application:**

- **Ground application:** Ground application is allowed for all pests. Apply by ground equipment using sufficient water to obtain full coverage of foliage in a minimum of 20 gallons per acre. For aerial application use a minimum of 38 fl oz of finished spray per acre.
- **Timing:** Apply as required by scouting.
- **Restrictions:**
  1. Do not allow livestock to graze or feed treated foliage to livestock.
  2. Do not apply more than 19 fl oz of Gladiator Insecticide/Miticide per acre per application.
  3. Do not apply more than 38 fl oz of Gladiator Insecticide/Miticide per acre annually. Refer to seasonal max tables at the beginning of the label when making additional applications of other products containing either zeta-cypermethrin or avermectin.
  4. Do not make applications less than 30 days apart.
  5. For resistance management do not use Gladiator Insecticide/Miticide in citrus nurseries.
  6. Aerial application is permitted only for citrus leaffminer and Asian citrus psyllid control.
  7. Aerial applications are not allowed in California.

**Grazing Restrictions:** Do not allow livestock to graze or feed treated foliage to livestock.
### Crop Group: Cucurbit Group

<table>
<thead>
<tr>
<th>Crop</th>
<th>PHI</th>
<th>Target Pests</th>
<th>Rate</th>
<th>Special Directions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cucurbita spp.</td>
<td>7 days</td>
<td>Aphid spp., Armorywrm, Beet* Cabbage Looper</td>
<td>19 fl ounces per acre</td>
<td>Method of Application: For cutworms apply as a broadcast application in a minimum of 10 gallons per acre. For foliar applications apply broadcast ground (minimum 20 gallons per acre) or air (minimum 5 gallons per acre). Do not apply by air in New York.</td>
</tr>
<tr>
<td>Squash</td>
<td>7 days</td>
<td>Corn Earworm Cucumber Beetle spp. (adult)</td>
<td></td>
<td><strong>Timing</strong> Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels. <strong>Application Interval</strong> Do not make applications less than 7 days apart. <strong>Adjuvants</strong> Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants. * Pyrethroid resistance is common for this pest. Please consult your local or state agricultural authority to determine if resistant pest populations are in your area. If so, refer to the resistance management statement in the &quot;DIRECTION FOR USE&quot; section of this label. Heavy mite pressure may need additional miticide for effective control.</td>
</tr>
<tr>
<td>Cowpea</td>
<td>7 days</td>
<td>Cowpea (Garbanzo Bean)</td>
<td></td>
<td><strong>Adjuvants</strong> Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants. * Includes all armyworm species except beet armyworm. ** Pyrethroid resistance is common for this pest. Please consult your local or state agricultural authority to determine if resistant pest populations are in your area. If so, refer to the resistance management statement in the &quot;DIRECTION FOR USE&quot; section of this label. Heavy mite pressure may need additional miticide for effective control.</td>
</tr>
</tbody>
</table>

### Restrictions:
1. Do not apply within 7 days of harvest.
2. Do not apply more than 19 fl oz of Gladiator Insecticide/Miticide per acre.
3. Do not apply more than 38 fl oz of Gladiator Insecticide/Miticide per acre annually. Refer to seasonal max tables at the beginning of the label when making additional applications of other products containing either zeta-cypermethrin or avermectin.
4. Do not make more than 2 consecutive applications of Gladiator Insecticide/Miticide or any other product containing avermectin or zeta-cypermethrin.
5. Do not make applications less than 7 days apart.
6. Do not apply by air in New York.
### Crop Group

**Fruiting Vegetable group**
- Eggplant (Solanum melongena),
- Groundcherry (Physalis spp.),
- Pepper (Capsicum spp.)
- Tomato (Lycopersicon esculentum)

**Including:**
- Bell pepper, chili pepper, cooking pepper, pimento, sweet pepper, tomatillo (Physalis ixocarpa),
- Tomatillo (Physalis philadelphica),
- Peppino (Solanum pseudocapsicum spp.),
- Eggplant (Solanum melongena),
- Broad bean, Broad bean, Cucumber beetle,
- Colorado potato beetle,
- Corn earworm,
- Cutworm spp.,
- European corn borer,
- Flea beetle,
- Garden webworm,
- Grasshoppers,
- Green stink bug,
- Hornworms,
- Leafhopper spp.,
- Liriomyza,
- Leafminers,
- Lygus bugs,
- Meadow spittlebug,
- Pepper maggot (adults),
- Pepper weevil,
- Southern bean leaf blight,
- Western corn borer,
- Spider mites,
- Tobacco budworm,
- Tomato fruitworm,
- Tomato pinworm,
- Tomato psyllid,
- Tomato russet mite,
- Whitefly spp.,

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3. Do not apply more than 38 fl oz of Gladiator Insecticide/Miticide per acre annually. Refer to seasonal max tables at the beginning of the label when making additional applications of other products containing either zeta-cypermethrin or avemectin.
4. Do not make more than 2 consecutive applications of Gladiator Insecticide/Miticide or any other product containing avermectin or zeta-cypermethrin.
5. Do not make applications less than 7 days apart.
6. For resistance management, do not apply to plants being grown for transplants.
7. Do not apply by air in New York.

### Crop PHI Target Pests Rate Special Directions

<table>
<thead>
<tr>
<th>Crop</th>
<th>PHI</th>
<th>Target Pests</th>
<th>Rate</th>
<th>Special Directions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fruiting</td>
<td></td>
<td></td>
<td></td>
<td>Broadcast ground (minimum 20 gallons per acre) or air (minimum 5 gallons per acre).</td>
</tr>
<tr>
<td>Vegetable</td>
<td>28</td>
<td>亚洲 Lady Bird Beetle, Brown Marmorated, Stinkbug, Cutworm spp., Eastern grape leafhopper, Grape Berry Mott, Grape Vine Rrot, Borer, Japanese Beetle, Lady Bird Beetle, Pacific Spider mite, Tarnished Plant bug, Twospotted Spider Mite, Variegated leafhopper, Western grape, Leafllether, Western grape leaf Skeletonizer, Willamette Spider Mite</td>
<td>19 fl ounces per acre</td>
<td>Method of Application: Broadcast ground only (minimum 50 gallons per acre). Apply as required by scouting. Timing: Apply in the “DIRECTION FOR USE” section of this label.</td>
</tr>
</tbody>
</table>

### Grazing Restrictions:

Do not allow livestock to graze in treated vineyards.
<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Leafy Vegetable Group, (except Brassica) Crop Group 4</td>
<td>7 days</td>
<td>Aphid spp; Armyworms*; Broad Mite; Colorado Potato Beetle; Corn Earworm; Crickets; Cucumber Beetles; Cutworms; Diamondback Moth*; Flea Beetles; Imported Cabbage worm; Ground Beetles; Leafhoppers; Liriomyza; Leafminers; Loopers; Lygus Bugs; Onion Thrips; Saltmarsh; Caterpillar; Spider Mites; Stink Bugs; Tobacco Budworm*; Tomato Pinworm; Tomato Psyllid; Tomato Russet Mite; Western Flower Thrips; Whitefly; sp.; Wireworm (adults)</td>
<td>19 fl ounces per acre</td>
<td>Method of Application: Broadcast ground (minimum 20 gallons per acre) or air (minimum 5 gallons per acre). Timing: Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels. Application Interval: Do not make applications less than 7 days apart. Adjuvants: Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants. Spider Mites: Apply when mites first appear and repeat as needed to maintain control. *Pyrethroid resistance is common for this pest. Please consult your local or state agricultural authority to determine if resistant pest populations are in your area. If so, refer to the resistance management statement in the “DIRECTIONS FOR USE” section of this label.</td>
</tr>
<tr>
<td>Onion, Bulb Subgroup 3-07A</td>
<td>30 days</td>
<td>Aphids; Armyworms*; Cutworms; Liriomyza; Leafminers; Onion maggot (adults); Onion Thrips*; Stink Bug</td>
<td>19 fl ounces per acre</td>
<td>Method of Application: Broadcast ground (minimum 20 gallons per acre) or air (minimum 5 gallons per acre). Timing: Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels. Number of Applications: Make 2 consecutive applications of Gladiator, then rotate to chemistry with a different mode of action before making additional applications of Gladiator or other products containing a pyrethroid or avermectin. Application Interval: Do not make applications less than 7 days apart. Adjuvants: Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants. Leafminers: Apply when adult flies are first observed and repeat as needed to maintain control. *Pyrethroid resistance is common for this pest. Please consult your local or state agricultural authority to determine if resistant pest populations are in your area. If so, refer to the resistance management statement in the “DIRECTIONS FOR USE” section of this label.</td>
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Restrictions:
1. Do not apply within 7 days of harvest.
2. Do not apply more than 19 fl oz of Gladiator Insecticide/Miticide per acre per application.
3. Do not apply more than 38 fl oz of Gladiator Insecticide/Miticide per acre annually. Refer to seasonal max tables at the beginning of the label when making additional applications of other products containing either zeta-cypermethrin or avermectin.
4. Do not make more than 2 consecutive applications of Gladiator Insecticide/Miticide or any other product containing avermectin or zeta-cypermethrin.
5. Do not make applications less than 7 days apart.
6. For resistance management, do not apply to plants being grown for transplants.
7. Do not apply by air in New York.

Grazing Restrictions:
Do not graze livestock in treated areas or cut treated crops for livestock food.
<table>
<thead>
<tr>
<th>Crop</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Oriental pears</td>
<td>28 days</td>
<td>Apple Maggot, Codling Moth, European Apple Sawfly, European Red Mite, Green Fruitworm, Japanese Beetle, Lesser Appleworm, McDaniel Spider Mite, Oblique Banded Leafroller, Oriental Fruit Moth Pandemis Leafroller, Pear Pylia, Plum Curculio, Potato Leafroller, Redbandered Leafroller, Rosy Apple Aphid, Spinia Aphid, Stink Bugs, Tarnished Plant Bug, Tentiform Leaftminer, Tufted Apple Bud Moth, Twosotted Spider Mite, Variegated Leafroller, White Apple Leafhopper</td>
<td>19 fl ounces per acre</td>
<td>Method of Application: Broadcast ground only (minimum 40 gallons per acre). Timing: Begin applications at pink and/or petal fall through first cover to protect developing fruit and foliage from the target insect pests and mite species common to the production area. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels. Avoid applications when honey bees are actively foraging by applying during the early morning or evening hours. Application Interval: Do not make applications less than 21 days apart. Adjuvants: Surfactants can improve pest control. Do not use binder or sticker type surfactants. Vegetable oil can be used as a spray additive (1 qt/acre). Use of a horticultural spray oil (not dormant oil) can improve residual spider mite control. Applying the combination of Gladiator and horticultural spray oil fewer than 14 days before or after applying sulfur-containing products can result in phytotoxicity and crop loss. A non-ionic surfactant is recommended to avoid fruit injury such as russetting on certain varieties. Spider Mites: For better residual control of spider mites, applications should be made as close as possible to petal fall on newer leaves. Applications for spider mite control should be limited to a period from petal fall through 6 weeks following petal fall. Heavy mite pressure may need additional al miticide for effective control. Apply before mites reach a threshold of 5 per leaf. Teniform Leaftminer: Apply targeting egg and early sap feeder stages of first and second generation tentiform leaftminers when local thresholds are reached. Do not apply during bloom. White Apple Leafhopper (not for use west of Rocky Mountains): Application limited to first generation white apple leafhopper. Apply soon after petal fall. Restrictions: 1. Do not apply within 28 days of harvest. 2. Do not apply more than 19 fl oz of Gladiator Insecticide/Miticide per acre per application. 3. Do not apply more than 38 fl oz of Gladiator Insecticide/Miticide per acre annually. Refer to seasonal max tables at the beginning of the label when making additional applications of other products containing either zeta-cypermethrin or avermectin. 4. Do not make more than 2 consecutive applications of Gladiator Insecticide/Miticide or any other product containing avermectin or zeta-cypermethrin. 5. Do not make applications less than 21 days apart. 6. Do not apply using aerial applications. Grazing Restrictions: Do not allow livestock to graze or feed treated foliage to livestock.</td>
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</tr>
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<tbody>
<tr>
<td>Potato/Tuberous &amp; Corn Group, Root and Tuber vegetables</td>
<td>14 days</td>
<td>Aphis spp.,* Armyworm, Beet* Armyworm, Yellowstriped Cabbage Looper, Cabbage Maggot, Colorado Potato Beetle, Cucumber Beetle (adult), Cutoffsp, European Corn Borer, Flea Beetle spp., Grasshopper spp., Imported Cabbageworm, Leafhopper spp., Linyomyz, Leafminers, Potato, Leaftoppers, Potato Pityld, Southern Corn Rootworm (adult), Spider Mites, Tarnished Plant Bug, Vegetable Weevil, Whitlefringed Beetle (adult)</td>
<td>19 fl ounces per acre</td>
<td>Method of Application: Broadcast ground (minimum 20 gallons per acre) or air (minimum 5 gallons per acre). Do not apply by air in New York state. Timing: Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels. Application Interval: Do not make applications less than 7 days apart. Adjuvants: Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or stoker type surfactants. Leafminers spp.: Begin Gladiator Insecticide/Miticide applications when adult flies are first observed. Repeat applications as needed to maintain control (See Restrictions below). Combining a sticker type surfactant with a sticker or binder type product may reduce leafminer control. Spider mites: Repeat Gladiator Insecticide/Miticide applications as needed to maintain control (See Restrictions below). Aerial application may not provide adequate spray coverage which could result in poor mite control. Combinations with products containing stoker or binder type adjuvants may reduce mite control. Heavy mite pressure may need additional miticide for effective control. * Pyrethroid resistance is common for this pest. Please consult your local or state agricultural authority to determine if resistant pest populations are in your area. If so, refer to the resistance management statement in the “DIRECTION FOR USE” section of this label. Restrictions: 1. Do not apply within 14 days of harvest. 2. Do not apply more than 19 fl oz of Gladiator Insecticide/Miticide per acre per application. 3. Do not apply more than 57 fl oz of Gladiator Insecticide/Miticide per acre annually. Refer to seasonal max tables at the beginning of the label when making additional applications of other products containing either zeta-cypermethrin or avermectin. 4. Do not make more than 2 consecutive applications of Gladiator Insecticide/Miticide or any other product containing avermectin or zeta-cypermethrin. 5. Do not make applications less than 7 days apart. 6. Do not apply by air in New York state. Grazing Restrictions: Do not allow livestock to graze or feed treated foliage to livestock.</td>
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<tr>
<td>Stone Fruit Group - 12 including: Apricot, Cherry (Sweet and Tart), Nectarine, Peach, Plum (including Chickasaw Plum, Damson Plum, and Japanese Plum), Plumcot, and Prune (fresh)</td>
<td>21 days</td>
<td>American Plum Borer, Cherry Fruit Fly, European Red Mite, Green Fruitworm, Leafhoppers, Leafrollers, Lesser Peachtree Borer, Oriental Fruit Moth, Pacific Spider Mite, Peachtree Borer, Plum Curculio, Rose Chafers, Spotted Wing Drosophila, Stink Bugs, Tarnished Plant Bug, Two spotted Spider Mite, Western Cherry Fruit Fly</td>
<td>Concentrate Sprays 19 fl oz per acre</td>
<td>Method of Application: Broadcast ground only (minimum 40 gallons per acre). Timing: Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels. Application Interval: Do not make applications less than 21 days apart. Adjuvants: Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants. Restrictions: 1. Do not apply within 21 days of harvest. 2. Do not apply more than 19 fl oz of Gladiator Insecticide/Miticide per acre per application. 3. Do not apply more than 57 fl oz of Gladiator Insecticide/Miticide per acre annually. Refer to seasonal max tables at the beginning of the label when making additional applications of other products containing either zeta-cypermethrin or avermectin. 4. Do not make more than 2 consecutive applications of Gladiator Insecticide/Miticide or any other product containing avermectin or zeta-cypermethrin. 5. Do not make applications less than 21 days apart. 6. Do not apply using aerial application. Grazing Restrictions: Do not allow livestock to graze or feed treated foliage to livestock.</td>
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<td></td>
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<td>Dilute Sprays 4.75 fl oz per 100 gallons based upon a dilute spray volume of 400 gal/A.</td>
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<tr>
<td>Tree Nut Group - 14 including: Almond, Beechnut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut, Pecan, Pistachios and Walnut (black and English)</td>
<td>21 days</td>
<td>Aphid spp., Codling Moth, European Red Mite, Filbertworm, Hickory Shuckworm, Leaf-footed Bug, Leafhopper spp., Lygus spp., Navel Orangeworm, Pacific Spider Mite, Peach Twig Borer, Pecan Leaf Casebearer, Pecan Nut Casebearer, Pecan Phylloxera, Redheaded Caterpillar, Stink Bug spp., Strawberry Spider Mite, Walnut Aphid, Walnut Husk Fly</td>
<td>Concentrate Sprays 19 fl ounces per acre</td>
<td>Method of Application: Broadcast ground only (minimum 40 gallons per acre). Timing: Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels. Application Interval: Do not make applications less than 21 days apart. Adjuvants: Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants. Spider Mites: Apply when mites first appear and repeat as needed to maintain control (See Restrictions below). Under heavy mite pressure may need additional miticide for effective control. Restrictions: 1. Do not apply within 21 days of harvest. 2. Do not apply more than 19 fl oz of Gladiator Insecticide/Miticide per acre per application. 3. Do not apply more than 57 fl oz of Gladiator Insecticide/Miticide per acre annually. Refer to seasonal max tables at the beginning of the label when making additional applications of other products containing either zeta-cypermethrin or avermectin. 4. Do not make more than 2 consecutive applications of Gladiator Insecticide/Miticide or any other product containing avermectin or zeta-cypermethrin. 5. Do not make applications less than 21 days apart. 6. Do not apply using aerial applications. Grazing Restrictions: Do not allow livestock to graze or feed treated foliage to livestock.</td>
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**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

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