

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	6	3	Insecticides
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STATE OF HAWAII
Department of Agriculture

ACCEPTED
LICENSE NO. **9329.251**



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

Sold By



FMC Corporation
Agricultural Products Group
1735 Market Street
Philadelphia PA 19103

Net Contents: 1 Gallon

01-26-16

FIRST AID

If swallowed	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 contact 1-800-331-3148 for emergency medical treatment information.

NOTE TO PHYSICIAN

This product contains a pyrethroid, avermectins, and petroleum distillate. 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 animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, and valproic acid).

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PRECAUTIONARY STATEMENTS

Hazards to Humans (and Domestic Animals)

Caution

Harmful if swallowed. Causes mild eye irritation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment:

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves - EPA category E (such as barrier laminate, nitrile rubber, neoprene rubber, or Viton).
- Shoes plus socks

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

User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Wash thoroughly with soap and water after handling. 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.

Engineering Control Statements

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard WPS for agricultural pesticides (540CFR 170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

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 this 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. Exception; for grape girdling, cane turning, and tying in grapes, do not enter or allow worker entry into treated areas during the restricted-entry interval of (REI) of 4-days.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls, Chemical-resistant gloves, such as Barrier Laminate or Viton, and shoes plus socks.

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 should 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. This product is classified as having a 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 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 regulation.

Rate of application is variable according to the pest. Use lower rates under light to moderate infestations; higher rates under heavy insect pressure. Arid climates 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 any products 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.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers: Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 21pp. <http://www.in.nrcs.usda.gov/technical/agronomy/newconbuf.pdf>.

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

Crop	Max Seasonal Total when apply Avermectin (lbs ai/a)	
	Gladiator Insecticide/Miticide	Avermectin
Apples	0.024	0.047
Avocados	0.046	0.047
Celeriac	0.036	0.056
Citrus – Crop Group 10	0.024	0.047
Cotton	0.024	0.038
Cucurbits – Crop Group 9	0.036	0.056
Dry Bean	0.036	0.056
Fruiting Vegetables – Crop Group 8	0.036	0.056
Grapes	0.024	0.038
Leafy Vegetables – Crop Group 4	0.036	0.056
Onion, bulb – Crop Subgroup 0-07A	0.036	0.056
Pears	0.024	0.047
Stone Fruit – Crop Group 12	0.036	0.047
Tuberous and Corm Vegetables – Crop Subgroup 1C	0.036	0.056
Tree Nut – Crop Group 14	0.036	0.047

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.

Crop	Max Seasonal Total when applying an individual product (lbs ai/acre)					Maximum Seasonal Total (lbs ai/acre) when applying Zeta-Cypermethrin products to the same crops	Maximum Seasonal Total (lbs ai/acre) When Applying Cypermethrin and Zeta-Cypermethrin Products to the Same Crop
	Zeta-cypermethrin				Cypermethrin		
	Gladiator Insecticide/Miticide	Mustang Insecticide	Mustang Maxx Insecticide	Hero Insecticide	(Any cypermethrin product)		
Apples	0.05	0.3	0.15	NA ²	NA ³	0.3	NA ³
Avocado	0.05	0.3	0.15	NA ²	NA ³	0.3	NA ³
Celeriac	0.075	0.3	0.15	0.1121	NA ³	0.3	NA ³
Citrus - Crop Group 10	0.05	0.2	NA ¹	NA ²	NA ³	0.2	NA ³
Cotton	0.05	0.3	0.15	0.1121	0.6	0.3	0.6
Cucurbits - Crop Group 9	0.075	0.3	0.15	0.1	NA ³	0.3	NA ³
Dry Bean	0.075	0.3	0.15	0.067	NA ³	0.3	NA ³
Fruiting Vegetables - Crop Group 8	0.075	0.3	0.15	0.1*	NA ³	0.3	NA ³
Grapes	0.05	0.3	0.15	0.025	NA ³	0.3	NA ³
Leafy Vegetables - Crop Group 4	0.075	0.3	0.15	NA ²	0.6	0.3	0.6
Onion, bulb - Crop Subgroup 3-07A	0.075	0.25	0.125	NA ²	NA ³	0.25	NA ³
Pears	0.05	0.3	0.15	NA ²	NA ³	0.3	NA ³
Stone Fruit - Crop Group 12	0.075	0.3	0.15	NA ²	NA ³	0.3	NA ³
Tuberous and Corm Vegetables - Crop Subgroup 1C	0.075	0.3	0.15	0.1121	NA ³	0.3	NA ³
Tree Nut - Crop Group 14	0.075	0.25	0.125	0.1121	0.6	0.25	0.6

*This maximum seasonal rate pertains to tomatoes, for other fruiting vegetables refer to the specific Hero labels

NA¹ – Not applicable: Mustang Maxx is not labeled for use on this crop

NA² – Not applicable: The Hero products are not labeled for use on this crop

NA³ – Not applicable: Cypermethrin is not labeled for use on this crop.

Always follow application rates, use instructions, and restrictions on the individual product labels

Crop	PHI	Target Pests	Rate	Special Directions
Apples (azarole, crabapple, loquat, mayhaw, medlar)	28 days	Apple Curculio Apple Maggot Codling Moth European Apple Sawfly European Red Mite Green Fruitworm Japanese Beetle Leafroller spp. Lesser Appleworm McDaniel Spider Mite Oblique Banded Leafroller Oriental Fruit Moth Pandemis Leafroller Pear Psylla Plum Curculio Potato Leafroller Redbanded Leafroller Rosy Apple Aphid San Jose Scale Spirea Aphid Stink Bugs Tarnished Plant Bug Tentiform Leafminer Twospotted Spider Mite Tufted Apple Bud Moth Variegated Leafroller White Apple Leafroller	Concentrate Sprays 19 fl ounces per acre	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 pest and mite species common to the production area. 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/A). 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. Tentiform Leafminer: Apply targeting egg and early sap feeder stages of first and second generation tentiform 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.
			Dilute Sprays* 4.75 fl ounces per 100 gallons based upon a dilute spray volume of 400 gal/A	
Restrictions: <ol style="list-style-type: none"> Do not apply within 28 days of harvest. Do not apply more than 19 fl oz of Gladiator Insecticide/Miticide per acre per application 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. Do not make more than 2 consecutive applications of Gladiator Insecticide/Miticide or any other product containing avermectin or zeta-cypermethrin. Do not make applications less than 21 days apart. Do not apply using aerial applications. Grazing Restrictions: Do not allow livestock to graze or feed treated foliage to livestock.				

Crop	PHI	Target Pests	Rate	Special Directions
Avocado	14 days	Ambrosia beetle (adults) Avocado Lace Bug Avocado Leafhopper Avocado Leafroller Avocado Loopers Avocado Tree Girdler Avocado Whitefly Brown Soft Scale Caterpillars Mirids Omnivorous Loopers Orange Tortrix Persea Mites Scale Crawlers Spanworm Thrips Twig Borers	19 fl ounces per acre	<p>Method of Application Apply Gladiator Insecticide/Miticide using broadcast ground application equipment (minimum 20 gallons per acre) or aerial application. (Aerial application is not the preferred method of application, but permitted.)</p> <p>Timing Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels.</p> <p>Avoid applications when honey bees are actively foraging by applying during the early morning or evening hours.</p> <p>Application Interval Do not make applications less than 30 days apart.</p> <p>Adjuvants Gladiator Insecticide/Miticide should be mixed with a spray adjuvant. 1%-4% v/v of a horticultural spray oil (not dormant oil) approved for use on avocados is recommended. Do not use binder or sticker type adjuvants. Applying the combination of Gladiator and horticultural spray oil fewer than 14 days before or after sulfur containing products can result in phytotoxicity and crop loss. A non-ionic surfactant may be used instead of horticultural spray oil to avoid fruit injury such as russetting on certain varieties.</p> <p>Note: To prevent crop injury, test on a small area before making wide area application</p> <p>Thrips: For best control apply when immature thrips are first observed and before numbers exceed 5 per leaf/fruit. For best results use ground application.</p>
<p>Restrictions:</p> <ol style="list-style-type: none"> Do not apply within 14 days of harvest. Do not apply more than 19 fl oz of Gladiator Insecticide/Miticide per acre per application. Do not apply more than 76 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. Do not make more than 2 consecutive applications of Gladiator Insecticide/Miticide or any other product containing avermectin or zeta-cypermethrin. Do not make applications less than 30 days apart. <p>Grazing Restrictions: Do not allow livestock to graze in treated orchards or feed treated foliage to livestock.</p>				

Crop	PHI	Target Pests	Rate	Special Directions
Celeriac	7 days	Aphid spp. Armyworm spp.* Cabbageworm Celery Leaf Tier Corn Earworm Cutworm spp. Diamondback Moth European Corn Borer Fire Ant spp. Flea Beetle spp. Green Cloverworm Hornworm spp. Imported Cabbageworm Looper spp. Tobacco Budworm** Twospotted Spider Mite** Velvetbean Caterpillar Whitefly (adult)	19 fl ounces per acre	<p>Method of Application Broadcast ground only (minimum 20 gallons per acre).</p> <p>Timing Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels.</p> <p>Application Interval Do not make applications less than 7 days apart.</p> <p>Adjuvants Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants.</p> <p>*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 "DIRECTION FOR USE" section of this label. Heavy mite pressure may need additional miticide for effective control.</p>
<p>Restrictions:</p> <ol style="list-style-type: none"> Do not apply within 7 days of harvest. 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). 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. Do not make more than 2 consecutive applications of Gladiator Insecticide/Miticide or any other product containing avermectin or zeta-cypermethrin. Do not make applications less than 7 days apart. Do not apply using aerial applications. 				

Crop	PHI	Target Pests	Rate	Special Directions
Citrus Group Crop Group 10 Including: Calamondin, Citrus citron, Citrus hybrids (includes chironja, tangelo, tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Sour orange, Sweet orange, Pummelo, and Satsuma mandarin Uniq Fruit	7 days	Armyworm, Beet Asian Citrus Psyllid Asian Cockroach Blue-Green Citrus Root Weevils Broad Mite Citrus Bud Mite Citrus Leafminer Citrus Rust Mite Citrus Thrips Cutworms Diaprepes Root Weevil Fire Ants Fuller Rose Beetle Glassy-Winged Sharpshooter Grasshopper Katydid Leafhoppers Leafrollers Little Leaf Notcher Loopers Orange Tortrix Orangedog Caterpillars Plantbugs	19 fl ounces per acre	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 for concentrate spray or a minimum of 100 gallons for dilute spray. Aerial application may result in reduced level and duration of control compared with ground application. For aerial application use a minimum of 10 gallons of finished spray 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 30 days apart. Adjuvants Gladiator Insecticide/Miticide must be applied with a spray adjuvant or vegetable/horticultural oil. Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants. Asian Citrus Psyllid: Apply Gladiator Insecticide/Miticide to protect newly expanded expanding foliage flush during spring, summer, or fall. Gladiator Insecticide/Miticide will only control adults and nymphs at the time of application. Use a minimum of 2 gallons per acre in a low volume concentrate spray for ground application. Mites: Apply Gladiator Insecticide/Miticide during spring, summer, and/or fall when mites first appear. Citrus Bud Mite: For best results apply Gladiator Insecticide/Miticide at bud swell. Citrus Leafminer: Apply Gladiator Insecticide/Miticide during spring, summer, or fall to protect new growth. Use a minimum of 2 gallons per acre in a low volume concentrate spray for ground application. Citrus Thrips: Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels.
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 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 leafminer 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	PHI	Target Pests	Rate	Special Directions
Cotton	20 days	Armyworm, Beet* Armyworm, Fall Armyworm, Yellowstriped Bollworm Cabbage Looper Carmine Spider Mite* Cotton Aphid* Cotton Fleahopper Cotton Leafperforator Cutworms European Corn Borer Lygus Bugs Pacific Spider Mite* Pink Bollworm Saltmarch Caterpillar Soybean (banded) Thrips Tobacco Thrips Twospotted Spider Mite* Whitefly (adults)*	19 fl ounces per acre	Method of Application Broadcast ground (minimum 5 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 Wait at least 21 days between applications. Adjuvants Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants. Notes: For control of mites apply Gladiator Insecticide/Miticide when mites first appear. The use rate will depend on plant size and foliage density. Repeat applications on 21 day interval if needed to maintain mite control. The lower use rate of 7.5 to 13 ounces are only recommended if cotton is early season and under 10 inches in height. Do not use less than 7.5 ounces. * 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. Heavy mite pressure may need additional miticide for effective control.
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 more than 2 consecutive applications of Gladiator Insecticide/Miticide or any other product containing avermectin or zeta-cypermethrin. Do not make applications less than 21 days apart. Grazing Restrictions: Do not allow livestock to graze or feed treated foliage to livestock.				

Crop	PHI	Target Pests	Rate	Special Directions
Cucurbit Group Crop Group 9 Including: Chayote (fruit) (Sechium edule), Chinese wax-gourd (Chinese preserving melon) (Benincasa hispida, Citron melon (Citrullus lanatus var. citroides), Cucumber (Cucumis sativus), Gherkin (Cucumis anguria), Gourd, edible (Lagenaria spp.) (includes hyotan, cucuzza); (Luffa acutangula, L. cylindrica) (includes hechima, Chinese okra), Momordica spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (hybrids and/or cultivars of Cucumis melo) (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), Pumpkin (Cucurbita spp.); Squash, summer (Cucurbita pepo var. melopepo) (includes crook-neck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Squash, winter (Cucurbita maxima, C. moschata) (includes butter-nut squash, calabaza, Hubbard squash); (C. mixta; C. pepo) (includes acorn squash, spaghetti squash), Watermelon (includes hybrids and/or varieties of Citrullus lanatus)	7 days	Aphid spp. Armyworm, Beet* Cabbage Looper Corn Earworm Cucumber Beetle spp. (adult) Cutworm spp. Leafhopper spp. Leafminer Melonworm Pickleworm Plant Bug spp. Rindworm Spider Mites* Squash Bug Squash Vine Borer Stinkbug spp.	19 fl ounces per acre	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. 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. * 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.. Heavy mite pressure may need additional miticide for effective control.
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 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.				

Crop	PHI	Target Pests	Rate	Special Directions
Dry Bean Snap Bean; Wax Bean; Asparagus Bean; Chinese Longbean; Moth Bean; Yardlong Bean; Lima Bean; Broad Bean (Fava Bean); Blackeyed Pea; Southern Pea; Grain Lupin; Sweet Lupin; White Lupin; White Sweet Lupin; Kidney Bean; Navy Bean; Pinto Bean; Adzuki Bean; Catjang; Cowpea*; Crowder Pea; Moth Bean; Mung Bean; Rice Bean; Urd Bean; Chickpea (Garbanzo Bean)	21 days	Alfalfa Caterpillar Aphid spp. Armyworm spp.* Armyworm, Beet** Armyworm, Fall Bean Leaf beetle Blister Beetle spp. Colorado Potato Beetle Corn Borer, European Corn Borer, Southwestern Corn Earworm Corn Rootworm (adult) Cowpea Curculio Cucumber Beetle Cutworm spp. Flea Beetle spp. Grasshoppers Green Clovenworm Ground Beetles Imported Cabbageworm Japanese Beetle Leaf Skeletonizer spp. Leafhopper spp. Leafminers Lesser Cornstalk Borer Looper spp. Mexican Bean Beetle Pea Leaf Weevil Pea Weevil Plant Bug spp. Potato Leafhopper Saltmarsh Caterpillar Seedcorn Beetle Seedcorn Maggot (adult) Siverspotted Skipper Spider Mites Spittlebug Stink Bug spp. Thistle Caterpillar (Painted lady) Three-cornered Alfalfa Hopper Thrips spp. Tobacco Budworm** Velvetbean Caterpillar Webworm spp. Whitefly spp. (adult) Woolly Bear Caterpillar	19 fl ounces per acre	Method of Application Apply by broadcast ground or aerial application. Apply in a minimum of 10 gallons of water by ground and 5 gallons of water by air. 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 * 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 "DIRECTION FOR USE" section of this label. 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 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	PHI	Target Pests	Rate	Special Directions
Fruiting Vegetable group Crop Group 8 Including: Eggplant (Solanum melongena), Groundcherry (Physalis spp.), Pepino (Solanum muricatum), Pepper (Capsicum spp.) (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), Tomatillo (Physalis ixocarpa), Tomato (Lycopersicon esculentum)	7 days	Aphid spp.* Armyworm, Beet* Armyworm, Fall Armyworm, Southern Armyworm, True Armyworm, Yellowstriped Broad Mite Brown Stink Bug Cabbage Looper Celery Leaf Tier Colorado Potato Beetle Corn Earworm Cucumber Beetle Cutworm spp. European Corn Borer Flea Beetle Garden Webworm Grasshoppers Green Stinkbug Hornworms Leafhopper spp. <i>Liriomyza</i> Leafminers Lygus Bugs Meadow Spittlebug Pepper Maggot (adults) Pepper Weevil Southwestern Corn Borer Spider Mites <i>Thrips palmi</i> Tobacco Budworm* Tomato Fruitworm Tomato Pinworm Tomato Psyllid Tomato Russet Mite Whitefly spp.*	19 fl ounces per acre	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. Mites: For optimum control apply Gladiator Insecticide/Miticide when mites first appear. Heavy mite pressure may need additional miticide for effective control. Thrips palmi: For thrips control apply Gladiator Insecticide/Miticide when first observed. * 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 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 a pyrethroid zeta-cypermethrin. Do not make applications less than 7 days apart. 5. For resistance management, do not apply to plants being grown for transplants. 6. Do not apply by air in New York.				

Crop	PHI	Target Pests	Rate	Special Directions
Grapes	28 days	Asian Lady Bird Beetle Brown Marmorated Stinkbug Cutworm spp. Eastern grape leafhopper Grape Berry Moth Grape Vine Root Borer Japanese Beetle (adult) Lady Bird Beetle Pacific Spider mite Tarnished Plantbug Twospotted Spider Mite Variegated Leafhopper Western Grape Leafhopper Western Grapeleaf Skeletonizer Willamette Spider Mite	19 fl ounces per acre	Method of Application Broadcast ground only (minimum 50 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 before motiles exceed 5 per leaf. Heavy mite pressure may need additional miticide for effective control. Western grapeleaf skeletonizer: Apply when larvae are first observed. Apply immediately after egg hatch for optimum control.
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 in treated vineyards				

Crop	PHI	Target Pests	Rate	Special Directions
Leafy Vegetable Group (except Brassica) Crop Group 4 Including: Amaranth (leafy amaranth, Chinese spinach, tam-pala); Arugula (Roquette); Cardoon, Celery, Celery, Chinese, Celtuce, Chervil, Chrysanthemum, edible leaved and garland, Cilantro (not for use on cilantro grown for seed or coriander), Corn salad, Cress, garden, Cress, upland, (yellow rocket, winter cress); Dandelion, Dock (sorrel), Endive (escarole), Fennel, Florence (finochio), Lettuce, head and leaf, Orach, Parsley, Purslane, garden, Purslane, winter, Radicchio (red chicory), Rhubarb, Spinach (including New Zealand and vine, Malabar spinach, Indian spinach), and Swiss chard	7 days	Aphid spp. Armyworms* Broad Mite Colorado Potato Beetle Corn Earworm Crickets Cucumber Beetles Cutworms Diamondback Moth* Flea Beetles Imported Cabbageworm Ground Beetles Leafhoppers <i>Liriomyza</i> Leafminers Loopers Lygus Bugs Onion Thrips Saltmarsh Caterpillar Spider Mites Stink Bugs <i>Thrips palmi</i> Tobacco Budworm* Tomato Pinworm Tomato Psyllid Tomato Russet Mite Western Flower Thrips Whitefly spp. Wireworm (adults)	19 fl ounces per acre	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 (See Restrictions below). Heavy mite pressure may need additional miticide for effective control. Leafminers: Apply when adult flies are first observed and repeat as needed to maintain control (See Restrictions below) * 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 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. 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
Onion, Bulb Crop Subgroup 3-07A Including: Onion, bulb including daylily, bulb; fritillaria, bulb; garlic, bulb; great-headed, bulb; garlic, serpent; lily, bulb; onion, Chinese, bulb; onion, pearl; onion, potato, bulb; shallot, bulb; cultivars, varieties, and/or hybrids of these.	30 days	Aphids Armyworms* Cutworms <i>Liriomyza</i> Leafminers Onion maggot (adults) Onion Thrips* Stink Bugs	19 fl ounces per acre	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 leafminer flies are first observed and repeat as needed to maintain control. control (See Restrictions below) * 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 30 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.				

Crop	PHI	Target Pests	Rate	Special Directions
Pears including Oriental pears	28 days	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 Psylla Plum Curculio Potato Leafroller Redbanded Leafroller Rosy Apple Aphid Spirea Aphid Stink Bugs Tarnished Plant Bug Tentiform Leafminer Tufted Apple Bud Moth Twospotted Spider Mite Variegated Leafroller White Apple Leafhopper	19 fl ounces per acre	<p>Method of Application Broadcast ground only (minimum 40 gallons per acre).</p> <p>Timing Begin applications at pink and/or petal fall through first cover to protect developing fruit and foliage from the target insect pest and mite species common to the production area.</p> <p>Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels.</p> <p>Avoid applications when honey bees are actively foraging by applying during the early morning or evening hours.</p> <p>Application Interval Do not make applications less than 21 days apart.</p> <p>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/A). 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.</p> <p>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.</p> <p>Tentiform Leafminer: Apply targeting egg and early sap feeder stages of first and second generation tentiform leafminers when local thresholds are reached. Do not apply during bloom.</p> <p>White Apple Leafhopper (not for use west of Rocky Mountains): Application limited to first generation white apple leafhopper. Apply soon after petal fall.</p>
<p>Restrictions:</p> <ol style="list-style-type: none"> Do not apply within 28 days of harvest. Do not apply more than 19 fl oz of Gladiator Insecticide/Miticide per acre per application. 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. Do not make more than 2 consecutive applications of Gladiator Insecticide/Miticide or any other product containing avermectin or zeta-cypermethrin. Do not make applications less than 21 days apart. Do not apply using aerial applications. <p>Grazing Restrictions: Do not allow livestock to graze or feed treated foliage to livestock.</p>				

Crop	PHI	Target Pests	Rate	Special Directions
Potato/Tuberos & Corn Group, Root and Tuber vegetables Crop Group 1 Arracach, arrowroot; artichoke, Chinese; artichoke, Jerusalem, canna, edible, cassava, bitter and sweet, chayote (root), chufa, dasheen (taro), ginger, leren, potato sweet potato, tanager, turmeric, yam bean, yam, true	14 days	Aphid spp.* Armyworm, Beet* Armyworm Yellowstriped Cabbage Looper Cabbage Maggot Colorado Potato Beetle Cucumber Beetle (adult) Cutworm spp. European Corn Borer Flea Beetle spp. Grasshopper spp. Imported Cabbageworm Leafhopper spp. <i>Lyriomyza</i> Leafminers Potato Leafhoppers Potato Psyllid Southern Corn Rootworm (adult) Spider Mites Tarnished Plant Bug Vegetable Weevil Whitefringed Beetle (adult)	19 fl ounces per acre	<p>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.</p> <p>Timing Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels.</p> <p>Application Interval Do not make applications less than 7 days apart.</p> <p>Adjuvants Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants.</p> <p>Leafminers spp.: Begin Gladiator Insecticide/Miticide applications when adult flies are first observed. Repeat applications as needed to maintain control (See Restrictions below). Combining Gladiator Insecticide/Miticide with a sticker or binder type product may reduce leafminer control.</p> <p>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 sticker or binder type adjuvants may reduce mite control.</p> <p>Heavy mite pressure may need additional miticide for effective control.</p> <p>* 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.</p>
<p>Restrictions:</p> <ol style="list-style-type: none"> Do not apply within 14 days of harvest. Do not apply more than 19 fl oz of Gladiator Insecticide/Miticide per acre per application. 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. Do not make more than 2 consecutive applications of Gladiator Insecticide/Miticide or any other product containing avermectin or zeta-cypermethrin. Do not make applications less than 7 days apart. Do not apply by air in New York state. <p>Grazing Restrictions: Do not allow livestock to graze or feed treated foliage to livestock.</p>				

Crop	PHI	Target Pests	Rate	Special Directions
Stone Fruit Group Crop Group 12 including: Apricot, Cherry (Sweet and Tart), Nectarine; Peach, Plum (including Chickasaw Plum, Damson Plum, and Japanese Plum), Plumcot, and Prune (fresh)	21 days	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 Chafer Spotted Wing Drosophila Stink Bugs Tarnished Plant Bug Twospotted Spider Mite Western Cherry Fruit Fly	Concentrate Sprays 19 fl ounces per acre	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. Mites: Apply when mites first appear and repeat as needed to maintain control (See Restrictions below). Heavy mite pressure may need additional miticide for effective control.
			Dilute Sprays 4.75 fl oz per 100 gallons based upon a dilute spray volume of 400 gal/A.	
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.				

Crop	PHI	Target Pests	Rate	Special Directions
Tree Nut Group Crop Group 14 Including: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut, Pecan, Pistachios and Walnut (black and English)	21 days	Aphid spp. Codling Moth European Red Mite Filbertworm Hickory Shuckworm Leaffooted Bug Leafroller spp. Lygus spp. Navel Orangeworm Pacific Spider Mite Peach Twig Borer Pecan Leaf Casebearer Pecan Nut Casebearer Pecan Phylloxera Redhumped Caterpillar Stink Bug spp. Strawberry Spider Mite Walnut Aphid Walnut Husk Fly	19 fl ounces per acre	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.				

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage or disposal.

Pesticide Storage

If storing this product below freezing, user should shake or roll the container to ensure proper product consistency.

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal. In case of spill, avoid contact, isolate area, and keep out animals and unprotected persons. Confine spills. Call CHEMTREC (transportation and spills): 1-(800)-424-9300. To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

Container Disposal

Plastic Container: Non-refillable container. Do not reuse or refill this container. **Triple rinse as follows:** Empty the contents into application equipment or a mix tank and drain for 10 seconds after flow begins to drip. Fill container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or 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. **Then offer for recycling, if available or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill.**

Conditions of Sale and Limitation of Warranty and Liability:

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.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control of FMC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold FMC and Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, FMC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT. Any warranties, express or implied, having been made are inapplicable if this product has been contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) seller or FMC, and buyer assumes the risk of any such use.

To the extent consistent with applicable law, FMC or seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF FMC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF FMC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

This Conditions of Sale and Limitation of Warranty and Liability may not be amended by any oral or written agreement.

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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.

Supplemental Labeling

GROUP

6

3

Insecticides



STATE OF HAWAII
Department of Agriculture

ACCEPTED

LICENSE NO. **9329.251**



GLADIATOR™

INSECTICIDE / MITICIDE

This supplemental label expires on July 31, 2018 and must not be used or distributed after this date.

EPA Reg. No. 279-3441

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**

Sold By



FMC Corporation
Agricultural Products Group
1735 Market Street
Philadelphia PA 19103

01-26-16

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

ALL APPLICABLE DIRECTIONS, RESTRICTIONS AND PRECAUTIONS ON THE EPA REGISTERED LABEL ARE TO BE FOLLOWED.

This Supplemental labeling must be in possession of the user at the time of pesticide application. Read the label affixed to the container for Gladiator Insecticide/Miticide before applying. Carefully follow all precautionary statements and application use directions. Use of Gladiator Insecticide/Miticide according to this supplemental labeling is subject to all use precautions and limitations imposed by the labeling affixed to the container for Gladiator Insecticide/Miticide.

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

Crop	Max Seasonal Total when apply Avermectin (lbs ai/a)	
	Gladiator Insecticide/Miticide	Avermectin
Apples	0.024	0.047
Avocados	0.046	0.047
Celeriac	0.036	0.056
Citrus – Crop Group 10	0.024	0.047
Cotton	0.024	0.038
Cucurbits – Crop Group 9	0.036	0.056
Dry Bean	0.036	0.056
Fruiting Vegetables – Crop Group 8	0.036	0.056
Grapes	0.024	0.038
Leafy Vegetables – Crop Group 4	0.036	0.056
Onion, bulb – Crop Subgroup 0-07A	0.036	0.056
Pears	0.024	0.047
Stone Fruit – Crop Group 12	0.036	0.047
Tuberous and Corm Vegetables – Crop Subgroup 1C	0.036	0.056
Tree Nut – Crop Group 14	0.036	0.047

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.

Crop	Max Seasonal Total when applying an individual product (lbs ai/acre)					Maximum Seasonal Total (lbs ai/acre) when applying Zeta-Cypermethrin products to the same crops	Maximum Seasonal Total (lbs ai/acre) When Applying Cypermethrin and Zeta-Cypermethrin Products to the Same Crop
	Zeta-cypermethrin				Cypermethrin		
	Gladiator Insecticide/Miticide	Mustang Insecticide	Mustang Maxx Insecticide	Hero Insecticide	(Any cypermethrin product)		
Apples	0.05	0.3	0.15	NA ²	NA ³	0.3	NA ³
Avocado	0.05	0.3	0.15	NA ²	NA ³	0.3	NA ³
Celeriac	0.075	0.3	0.15	0.1121	NA ³	0.3	NA ³
Citrus - Crop Group 10	0.05	0.2	NA ¹	NA ²	NA ³	0.2	NA ³
Cotton	0.05	0.3	0.15	0.1121	0.6	0.3	0.6
Cucurbits - Crop Group 9	0.075	0.3	0.15	0.1	NA ³	0.3	NA ³
Dry Bean	0.075	0.3	0.15	0.067	NA ³	0.3	NA ³
Fruiting Vegetables - Crop Group 8	0.075	0.3	0.15	0.1*	NA ³	0.3	NA ³
Grapes	0.05	0.3	0.15	0.025	NA ³	0.3	NA ³
Leafy Vegetables - Crop Group 4	0.075	0.3	0.15	NA ²	0.6	0.3	0.6
Onion, bulb - Crop Subgroup 3-07A	0.075	0.25	0.125	NA ²	NA ³	0.25	NA ³
Pears	0.05	0.3	0.15	NA ²	NA ³	0.3	NA ³
Stone Fruit - Crop Group 12	0.075	0.3	0.15	NA ²	NA ³	0.3	NA ³
Tuberous and Corm Vegetables - Crop Subgroup 1C	0.075	0.3	0.15	0.1121	NA ³	0.3	NA ³
Tree Nut - Crop Group 14	0.075	0.25	0.125	0.1121	0.6	0.25	0.6

*This maximum seasonal rate pertains to tomatoes, for other fruiting vegetables refer to the specific Hero labels

NA¹ – Not applicable: Mustang Maxx is not labeled for use on this crop

NA² – Not applicable: The Hero products are not labeled for use on this crop

NA³ – Not applicable: Cypermethrin is not labeled for use on this crop.

Always follow application rates, use instructions, and restrictions on the individual product labels

Crop	PHI	Target Pests	Rate	Special Directions
Apples (azarole, crabapple, loquat, mayhaw, medlar)	28 days	Apple Curculio Apple Maggot Codling Moth European Apple Sawfly European Red Mite Green Fruitworm Japanese Beetle Leafroller spp. Lesser Appleworm McDaniel Spider Mite Oblique Banded Leafroller Oriental Fruit Moth Pandemis Leafroller Pear Psylla Plum Curculio Potato Leafroller Redbanded Leafroller Rosy Apple Aphid San Jose Scale Spirea Aphid Stink Bugs Tarnished Plant Bug Tentiform Leafminer Twospotted Spider Mite Tufted Apple Bud Moth Variegated Leafroller White Apple Leafroller	Concentrate Sprays 19 fl ounces per acre	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 pest 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.
			Dilute Sprays* 4.75 fl ounces per 100 gallons based upon a dilute spray volume of 400 gal/A	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/A). 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. Tentiform Leafminer: Apply targeting egg and early sap feeder stages of first and second generation tentiform 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.
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.				

Crop	PHI	Target Pests	Rate	Special Directions
Avocado	14 days	Ambrosia beetle (adults) Avocado Lace Bug Avocado Leafhopper Avocado Leafroller Avocado Loopers Avocado Tree Girdler Avocado Whitefly Brown Soft Scale Caterpillars Mirids Omnivorous Loopers Orange Tortrix Persea Mites Scale Crawlers Spanworm Thrips Twig Borers	19 fl ounces per acre	<p>Method of Application Apply Gladiator Insecticide/Miticide using broadcast ground application equipment (minimum 20 gallons per acre) or aerial application. (Aerial application is not the preferred method of application, but permitted.)</p> <p>Timing Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels.</p> <p>Avoid applications when honey bees are actively foraging by applying during the early morning or evening hours.</p> <p>Application Interval Do not make applications less than 30 days apart.</p> <p>Adjuvants Gladiator Insecticide/Miticide should be mixed with a spray adjuvant. 1%-4% v/v of a horticultural spray oil (not dormant oil) approved for use on avocados is recommended. Do not use binder or sticker type adjuvants. Applying the combination of Gladiator and horticultural spray oil fewer than 14 days before or after sulfur containing products can result in phytotoxicity and crop loss. A non-ionic surfactant may be used instead of horticultural spray oil to avoid fruit injury such as russetting on certain varieties.</p> <p>Note: To prevent crop injury, test on a small area before making wide area application</p> <p>Thrips: For best control apply when immature thrips are first observed and before numbers exceed 5 per leaf/fruit. For best results use ground application.</p>
<p>Restrictions:</p> <ol style="list-style-type: none"> Do not apply within 14 days of harvest. Do not apply more than 19 fl oz of Gladiator Insecticide/Miticide per acre per application. Do not apply more than 76 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. Do not make more than 2 consecutive applications of Gladiator Insecticide/Miticide or any other product containing avermectin or zeta-cypermethrin. Do not make applications less than 30 days apart. <p>Grazing Restrictions: Do not allow livestock to graze in treated orchards or feed treated foliage to livestock.</p>				

Crop	PHI	Target Pests	Rate	Special Directions
Celeriac	7 days	Aphid spp. Armyworm spp.* Cabbageworm Celery Leaf Tier Corn Earworm Cutworm spp. Diamondback Moth European Corn Borer Fire Ant spp. Flea Beetle spp. Green Cloverworm Hornworm spp. Imported Cabbageworm Looper spp. Tobacco Budworm** Twospotted Spider Mite** Velvetbean Caterpillar Whitefly (adult)	19 fl ounces per acre	<p>Method of Application Broadcast ground only (minimum 20 gallons per acre).</p> <p>Timing Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels.</p> <p>Application Interval Do not make applications less than 7 days apart.</p> <p>Adjuvants Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants.</p> <p>*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 "DIRECTION FOR USE" section of this label. Heavy mite pressure may need additional miticide for effective control.</p>
<p>Restrictions:</p> <ol style="list-style-type: none"> Do not apply within 7 days of harvest. 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). 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. Do not make more than 2 consecutive applications of Gladiator Insecticide/Miticide or any other product containing avermectin or zeta-cypermethrin. Do not make applications less than 7 days apart. Do not apply using aerial applications. 				

Crop	PHI	Target Pests	Rate	Special Directions
Citrus Group Crop Group 10 Including: Calamondin, Citrus citron, Citrus hybrids (includes chironja, tangelo, tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Sour orange, Sweet orange, Pummelo, and Satsuma mandarin Uniq Fruit	7 days	Armyworm, Beet Asian Citrus Psyllid Asian Cockroach Blue-Green Citrus Root Weevils Broad Mite Citrus Bud Mite Citrus Leafminer Citrus Rust Mite Citrus Thrips Cutworms Diaprepes Root Weevil Fire Ants Fuller Rose Beetle Glassy-Winged Sharpshooter Grasshopper Katydid Leafhoppers Leafrollers Little Leaf Notcher Loopers Orange Tortrix Orangedog Caterpillars Plantbugs	19 fl ounces per acre	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 for concentrate spray or a minimum of 100 gallons for dilute spray. Aerial application may result in reduced level and duration of control compared with ground application. For aerial application use a minimum of 10 gallons of finished spray 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 30 days apart. Adjuvants Gladiator Insecticide/Miticide must be applied with a spray adjuvant or vegetable/horticultural oil. Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants. Asian Citrus Psyllid: Apply Gladiator Insecticide/Miticide to protect newly expanded expanding foliage flush during spring, summer, or fall. Gladiator Insecticide/Miticide will only control adults and nymphs at the time of application. Use a minimum of 2 gallons per acre in a low volume concentrate spray for ground application. Mites: Apply Gladiator Insecticide/Miticide during spring, summer, and/or fall when mites first appear. Citrus Bud Mite: For best results apply Gladiator Insecticide/Miticide at bud swell. Citrus Leafminer: Apply Gladiator Insecticide/Miticide during spring, summer, or fall to protect new growth. Use a minimum of 2 gallons per acre in a low volume concentrate spray for ground application. Citrus Thrips: Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels.
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 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 leafminer 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	PHI	Target Pests	Rate	Special Directions
Cotton	20 days	Armyworm, Beet* Armyworm, Fall Armyworm, Yellowstriped Bollworm Cabbage Looper Carmine Spider Mite* Cotton Aphid* Cotton Fleahopper Cotton Leafperforator Cutworms European Corn Borer Lygus Bugs Pacific Spider Mite* Pink Bollworm Saltmarch Caterpillar Soybean (banded) Thrips Tobacco Thrips Twospotted Spider Mite* Whitefly (adults)*	19 fl ounces per acre	Method of Application Broadcast ground (minimum 5 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 Wait at least 21 days between applications. Adjuvants Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants. Notes: For control of mites apply Gladiator Insecticide/Miticide when mites first appear. The use rate will depend on plant size and foliage density. Repeat applications on 21 day interval if needed to maintain mite control. The lower use rate of 7.5 to 13 ounces are only recommended if cotton is early season and under 10 inches in height. Do not use less than 7.5 ounces. * 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. Heavy mite pressure may need additional miticide for effective control.
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 more than 2 consecutive applications of Gladiator Insecticide/Miticide or any other product containing avermectin or zeta-cypermethrin. Do not make applications less than 21 days apart. Grazing Restrictions: Do not allow livestock to graze or feed treated foliage to livestock.				

Crop	PHI	Target Pests	Rate	Special Directions
Cucurbit Group Crop Group 9 Including: Chayote (fruit) (Sechium edule), Chinese wax-gourd (Chinese preserving melon) (Benincasa hispida, Citron melon (Citrullus lanatus var. citroides), Cucumber (Cucumis sativus), Gherkin (Cucumis anguria), Gourd, edible (Lagenaria spp.) (includes hyotan, cucuzza); (Luffa acutangula, L. cylindrica) (includes hechima, Chinese okra), Momordica spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (hybrids and/or cultivars of Cucumis melo) (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), Pumpkin (Cucurbita spp.); Squash, summer (Cucurbita pepo var. melopepo) (includes crook-neck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Squash, winter (Cucurbita maxima, C. moschata) (includes butter-nut squash, calabaza, Hubbard squash); (C. mixta, C. pepo) (includes acorn squash, spaghetti squash), Watermelon (includes hybrids and/or varieties of Citrullus lanatus)	7 days	Aphid spp. Armyworm, Beet* Cabbage Looper Corn Earworm Cucumber Beetle spp. (adult) Cutworm spp. Leafhopper spp. Leafminer Melonworm Pickleworm Plant Bug spp. Rindworm Spider Mites* Squash Bug Squash Vine Borer Stinkbug spp.	19 fl ounces per acre	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. 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. * 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.. Heavy mite pressure may need additional miticide for effective control.
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 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.				

Crop	PHI	Target Pests	Rate	Special Directions
Dry Bean Snap Bean; Wax Bean; Asparagus Bean; Chinese Longbean; Moth Bean; Yardlong Bean; Lima Bean; Broad Bean (Fava Bean); Blackeyed Pea; Southern Pea; Grain Lupin; Sweet Lupin; White Lupin; White Sweet Lupin; Kidney Bean; Navy Bean; Pinto Bean; Adzuki Bean; Catjang; Cowpea*; Crowder Pea; Moth Bean; Mung Bean; Rice Bean; Urd Bean; Chickpea (Garbanzo Bean)	21 days	Alfalfa Caterpillar Aphid spp. Armyworm spp.* Armyworm, Beet** Armyworm, Fall Bean Leaf beetle Blister Beetle spp. Colorado Potato Beetle Corn Borer, European Corn Borer, Southwestern Corn Earworm Corn Rootworm (adult) Cowpea Curculio Cucumber Beetle Cutworm spp. Flea Beetle spp. Grasshoppers Green Cloverworm Ground Beetles Imported Cabbageworm Japanese Beetle Leaf Skeletonizer spp. Leafhopper spp. Leafminers Lesser Cornstalk Borer Looper spp. Mexican Bean Beetle Pea Leaf Weevil Pea Weevil Plant Bug spp. Potato Leafhopper Saltmarsh Caterpillar Seedcorn Beetle Seedcorn Maggot (adult) Silerspotted Skipper Spider Mites Spittlebug Stink Bug spp. Thistle Caterpillar (Painted lady) Three-cornered Alfalfa Hopper Thrips spp. Tobacco Budworm** Velvetbean Caterpillar Webworm spp. Whitefly spp. (adult) Woolly Bear Caterpillar	19 fl ounces per acre	Method of Application Apply by broadcast ground or aerial application. Apply in a minimum of 10 gallons of water by ground and 5 gallons of water by air. 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 * 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 "DIRECTION FOR USE" section of this label. 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 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	PHI	Target Pests	Rate	Special Directions
Fruiting Vegetable group Crop Group 8 Including: Eggplant (Solanum melongena), Groundcherry (Physalis spp.), Pepino (Solanum muricatum), Pepper (Capsicum spp.) (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), Tomatillo (Physalis ixocarpa), Tomato (Lycopersicon esculentum)	7 days	Aphid spp.* Armyworm, Beet* Armyworm, Fall Armyworm, Southern Armyworm, True Armyworm, Yellowstriped Broad Mite Brown Stink Bug Cabbage Looper Celery Leaf Tier Colorado Potato Beetle Corn Earworm Cucumber Beetle Cutworm spp. European Corn Borer Flea Beetle Garden Webworm Grasshoppers Green Stinkbug Hornworms Leafhopper spp. <i>Liriomyza</i> Leafminers Lygus Bugs Meadow Spittlebug Pepper Maggot (adults) Pepper Weevil Southwestern Corn Borer Spider Mites <i>Thrips palmi</i> Tobacco Budworm* Tomato Fruitworm Tomato Pinworm Tomato Psyllid Tomato Russet Mite Whitefly spp.*	19 fl ounces per acre	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. Mites: For optimum control apply Gladiator Insecticide/Miticide when mites first appear. Heavy mite pressure may need additional miticide for effective control. Thrips palmi: For thrips control apply Gladiator Insecticide/Miticide when first observed. * 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 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 a pyrethroid zeta-cypermethrin. Do not make applications less than 7 days apart. 5. For resistance management, do not apply to plants being grown for transplants. 6. Do not apply by air in New York.				

Crop	PHI	Target Pests	Rate	Special Directions
Grapes	28 days	Asian Lady Bird Beetle Brown Marmorated Stinkbug Cutworm spp. Eastern grape leafhopper Grape Berry Moth Grape Vine Root Borer Japanese Beetle (adult) Lady Bird Beetle Pacific Spider mite Tarnished Plantbug Twospotted Spider Mite Variegated Leafhopper Western Grape Leafhopper Western Grapeleaf Skeletonizer Willamette Spider Mite	19 fl ounces per acre	Method of Application Broadcast ground only (minimum 50 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 before motiles exceed 5 per leaf. Heavy mite pressure may need additional miticide for effective control. Western grapeleaf skeletonizer: Apply when larvae are first observed. Apply immediately after egg hatch for optimum control.
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 in treated vineyards				

Crop	PHI	Target Pests	Rate	Special Directions
Leafy Vegetable Group (except Brassica) Crop Group 4 Including: Amaranth (leafy amaranth, Chinese spinach, tam-pala); Arugula (Roquette); Cardoon, Celery, Celery, Chinese, Celtuce, Chervil, Chrysanthemum, edible leaved and garland, Cilantro (not for use on cilantro grown for seed or coriander), Corn salad, Cress, garden, Cress, upland, (yellow rocket, winter cress); Dandelion, Dock (sorrel), Endive (escarole), Fennel, Florence (finochio), Lettuce, head and leaf, Orach, Parsley, Purslane, garden, Purslane, winter, Radicchio (red chicory), Rhubarb, Spinach (including New Zealand and vine, Malabar spinach, Indian spinach), and Swiss chard	7 days	Aphid spp. Armyworms* Broad Mite Colorado Potato Beetle Corn Earworm Crickets Cucumber Beetles Cutworms Diamondback Moth* Flea Beetles Imported Cabbageworm Ground Beetles Leafhoppers <i>Liriomyza</i> Leafminers Loopers Lygus Bugs Onion Thrips Saltmarsh Caterpillar Spider Mites Stink Bugs <i>Thrips palmi</i> Tobacco Budworm* Tomato Pinworm Tomato Psyllid Tomato Russet Mite Western Flower Thrips Whitefly spp. Wireworm (adults)	19 fl ounces per acre	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 (See Restrictions below). Heavy mite pressure may need additional miticide for effective control. Leafminers: Apply when adult flies are first observed and repeat as needed to maintain control (See Restrictions below) * 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 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. 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
Onion, Bulb Crop Subgroup 3-07A Including: Onion, bulb including daylily, bulb; fritillaria, bulb; garlic, bulb; great-headed, bulb; garlic, serpent; lily, bulb; onion, Chinese, bulb; onion, pearl; onion, potato, bulb; shallot, bulb; cultivars, varieties, and/or hybrids of these.	30 days	Aphids Armyworms* Cutworms <i>Liriomyza</i> Leafminers Onion maggot (adults) Onion Thrips* Stink Bugs	19 fl ounces per acre	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 leafminer flies are first observed and repeat as needed to maintain control. control (See Restrictions below) * 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 30 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.				

Crop	PHI	Target Pests	Rate	Special Directions
Pears including Oriental pears	28 days	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 Psylla Plum Curculio Potato Leafroller Redbanded Leafroller Rosy Apple Aphid Spirea Aphid Stink Bugs Tarnished Plant Bug Tentiform Leafminer Tufted Apple Bud Moth Twospotted Spider Mite Variegated Leafroller White Apple Leafhopper	19 fl ounces per acre	<p>Method of Application Broadcast ground only (minimum 40 gallons per acre).</p> <p>Timing Begin applications at pink and/or petal fall through first cover to protect developing fruit and foliage from the target insect pest and mite species common to the production area.</p> <p>Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels.</p> <p>Avoid applications when honey bees are actively foraging by applying during the early morning or evening hours.</p> <p>Application Interval Do not make applications less than 21 days apart.</p> <p>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/A). 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.</p> <p>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.</p> <p>Tentiform Leafminer: Apply targeting egg and early sap feeder stages of first and second generation tentiform leafminers when local thresholds are reached. Do not apply during bloom.</p> <p>White Apple Leafhopper (not for use west of Rocky Mountains): Application limited to first generation white apple leafhopper. Apply soon after petal fall.</p>
<p>Restrictions:</p> <ol style="list-style-type: none"> Do not apply within 28 days of harvest. Do not apply more than 19 fl oz of Gladiator Insecticide/Miticide per acre per application. 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. Do not make more than 2 consecutive applications of Gladiator Insecticide/Miticide or any other product containing avermectin or zeta-cypermethrin. Do not make applications less than 21 days apart. Do not apply using aerial applications. <p>Grazing Restrictions: Do not allow livestock to graze or feed treated foliage to livestock.</p>				

Crop	PHI	Target Pests	Rate	Special Directions
Potato/Tuberos & Corn Group, Root and Tuber vegetables Crop Group 1 Arracach, arrowroot; artichoke, Chinese; artichoke, Jerusalem, canna, edible, cassava, bitter and sweet, chayote (root), chufa, dasheen (taro), ginger, leren, potato sweet potato, tanager, turmeric, yam bean, yam, true	14 days	Aphid spp.* Armyworm, Beet* Armyworm Yellowstriped Cabbage Looper Cabbage Maggot Colorado Potato Beetle Cucumber Beetle (adult) Cutworm spp. European Corn Borer Flea Beetle spp. Grasshopper spp. Imported Cabbageworm Leafhopper spp. <i>Lyriomyza</i> Leafminers Potato Leafhoppers Potato Psyllid Southern Corn Rootworm (adult) Spider Mites Tarnished Plant Bug Vegetable Weevil Whitefringed Beetle (adult)	19 fl ounces per acre	<p>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.</p> <p>Timing Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels.</p> <p>Application Interval Do not make applications less than 7 days apart.</p> <p>Adjuvants Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants.</p> <p>Leafminers spp.: Begin Gladiator Insecticide/Miticide applications when adult flies are first observed. Repeat applications as needed to maintain control (See Restrictions below). Combining Gladiator Insecticide/Miticide with a sticker or binder type product may reduce leafminer control.</p> <p>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 sticker or binder type adjuvants may reduce mite control.</p> <p>Heavy mite pressure may need additional miticide for effective control.</p> <p>* 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.</p>
<p>Restrictions:</p> <ol style="list-style-type: none"> Do not apply within 14 days of harvest. Do not apply more than 19 fl oz of Gladiator Insecticide/Miticide per acre per application. 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. Do not make more than 2 consecutive applications of Gladiator Insecticide/Miticide or any other product containing avermectin or zeta-cypermethrin. Do not make applications less than 7 days apart. Do not apply by air in New York state. <p>Grazing Restrictions: Do not allow livestock to graze or feed treated foliage to livestock.</p>				

Crop	PHI	Target Pests	Rate	Special Directions
Stone Fruit Group Crop Group 12 including: Apricot, Cherry (Sweet and Tart), Nectarine; Peach, Plum (including Chickasaw Plum, Damson Plum, and Japanese Plum), Plumcot, and Prune (fresh)	21 days	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 Chafer Spotted Wing Drosophila Stink Bugs Tarnished Plant Bug Twospotted Spider Mite Western Cherry Fruit Fly	Concentrate Sprays 19 fl ounces per acre	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. Mites: Apply when mites first appear and repeat as needed to maintain control (See Restrictions below). Heavy mite pressure may need additional miticide for effective control.
			Dilute Sprays 4.75 fl oz per 100 gallons based upon a dilute spray volume of 400 gal/A.	
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.				

Crop	PHI	Target Pests	Rate	Special Directions
Tree Nut Group Crop Group 14 Including: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut, Pecan, Pistachios and Walnut (black and English)	21 days	Aphid spp. Codling Moth European Red Mite Filbertworm Hickory Shuckworm Leaffooted Bug Leafroller spp. Lygus spp. Navel Orangeworm Pacific Spider Mite Peach Twig Borer Pecan Leaf Casebearer Pecan Nut Casebearer Pecan Phylloxera Redhumped Caterpillar Stink Bug spp. Strawberry Spider Mite Walnut Aphid Walnut Husk Fly	19 fl ounces per acre	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.				