

PRODUCT INFORMATION



Syngenta Crop Protection, Inc.
Greensboro, NC 27409
www.syngenta-us.com

RESTRICTED USE PESTICIDE
Due to Toxicity 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 LABEL FOR WARRIOR® INSECTICIDE WITH ZEON™ TECHNOLOGY

Insecticide
EPA Reg. No. 100-1112

Supplemental Directions for Use on Canola, Fruiting Vegetables, Legume Vegetables, Pome Fruits, Stone Fruits, Tobacco (Air Dried): Burley Tobacco and Flue-Cured Tobacco, Tree Nuts, Conifer and Deciduous Trees, and Non-Cropland (Excluding Public Land).

Active Ingredient:	
Lambda-cyhalothrin	
[1a(S*),3a(Z)]-(±)-cyano-(3-phenoxyphenyl)methyl-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate	
	11.4%
Other Ingredients:	88.6%
Total:	100.0%

Warrior Insecticide with Zeon Technology contains 1 lb. of active ingredient per gal. and is a capsule suspension.

ACCEPTED
NOV - 5 2003
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide Registered under EPA Reg. No. 100-1112

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KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

All applicable directions, restrictions and precautions on the EPA-registered label are to be followed.

This labeling must be in the possession of the user at the time of pesticide application.

SCP 1112A-S2 0703

DIRECTIONS FOR USE

Crop	Target Pests	Rate	
		lb. a.i./A	fl. oz./A
CANOLA			
	Cutworm Spp. Armyworm Spp. Diamondback Moth Flea Beetle Cabbage Seedpod Weevil Lygus Bug Grasshoppers	0.015-0.03	1.92-3.84
	Cabbage Aphid	0.03	3.84

Remarks

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold.
- Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply a minimum of 2 gals. of water/A.
- Do not apply within 7 days of harvest.
- Do not apply more than 0.09 lb.a.i. (0.72 pts./A) per year.

Crop	Target Pests	Rate	
		lb. a.i./A	fl. oz./A
FRUITING VEGETABLES			
Tomato and Tomatillo Peppers (bell and nonbell), Eggplant, Ground cherry, Pepino	Cabbage Looper Cutworm Spp. Hornworm Spp.	0.015-0.025	1.92-3.20
	Tomato Fruitworm Tobacco Budworm ³ Tomato Pinworm Beet Armyworm ^{1,3} Southern Armyworm ¹ Yellow-striped Armyworm ¹ Fall Armyworm ¹ European Corn Borer ⁴ Leafminer Spp. ² Colorado Potato Beetle ³ Flea Beetle Spp. Grasshopper Spp. Leafhopper Spp. Aphid Spp. ^{2,3} Whitefly Spp. ^{2,3} Meadow Spittlebug Stink Bug Spp. Plant Bug Spp. Stalk Borer ⁴ Blister Beetle Spp. Japanese Beetle (Adult) Pepper Weevil (Adult) ² Vegetable Weevil (Adult) Tomato Psyllid ^{2,3} Spider Mite Spp. ² Thrips ³ Cucumber Beetle Spp. (Adult)	0.02-0.03	2.56-3.84

Remarks

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water/A.
- Do not apply within 5 days of harvest.
- Do not apply more than 0.36 lb. a.i. (2.88 pts.)/A per season.

¹For control of first and second instar only.

²Suppression only.

³See resistance statement under General Directions for Use.

⁴For control before the larva bores into the plant stalk or fruit.

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Crop	Target Pests	Rate	
		lb. a.i./A	fl. oz./A
LEGUME VEGETABLES			
<p>Edible Podded (Only)</p> <p><i>Canavalia gladiata</i> - sword bean</p> <p><i>Canavalia ensiformis</i> - jackbean</p> <p><i>Glycine max</i> - Soybean (Immature seed)</p> <p>Edible Podded, Succulent Shelled or Dried Shelled</p> <p><i>Phaseolus</i> spp. - includes: field, kidney, lima, navy, pinto, runner, snap, tepany and wax beans</p> <p><i>Vigna</i> spp. - includes: adzuki, asparagus, moth, mung, rice, urd and yardlong beans, black-eye pea, catjang, Chinese longbean, cowpea, Crowder pea, and Southern pea</p> <p><i>Pisum</i> spp. - includes: dwarf, edible-pod, English, field, garden, green, snow and sugar snap peas</p> <p><i>Cajanus cajan</i> - Pigeon pea</p>	<p>Cutworm Spp. Green Cloverworm Imported Cabbageworm Saltmarsh Caterpillar Velvetleaf Caterpillar Mexican Bean Beetle</p> <p>Corn Earworm Painted Lady Butterfly (Larva) European Corn Borer¹ Looper Spp. Western Bean Cutworm Tobacco Budworm⁴ Armyworm² Fall Armyworm² Yellow-Striped Armyworm² Western Yellow-Striped Armyworm² Bean Leafskeletonizer Webworm Spp. Leaf-tier Spp. Alfalfa Caterpillar Stalk Borer¹ Cucumber Beetle Spp. (Adult) Corn Rootworm Beetle Spp. (Adult) Flea Beetle Spp. (Adult) Curculio and Weevil Spp.¹ (foliage and pod feeding adults and larvae) Blister Beetle Spp. Bean Leaf Beetle Japanese Beetle (Adult) Leafhopper Spp. Flea Hopper Spp. Three-Cornered Alfalfa Hopper Meadow Spittlebug Stink Bug Spp. Plant Bug Spp. Including Lygus Spp.⁴ Grasshopper Spp. Thrips Spp.⁴ Aphid Spp.⁴</p>	<p>0.015-0.025</p> <p>0.02-0.03</p>	<p>1.92-3.20</p> <p>2.56-3.84</p>

5/11

Crop	Target Pests	Rate	
		lb. a.i./A	fl. oz./A
(continued)			
Succulent Shelled or Dried Shelled <i>Vicia faba.</i> – broadbean (favabean) Dried Shelled (Only) <i>Lupinus</i> spp. – includes: grain, sweet, white and sweet white lupines <i>Cicer arletimum</i> – chickpea (garbonzo bean) <i>Cyamopsis tetragonoloba</i> – guar <i>Lablab purpureus</i> – Lablab bean (hyacinth bean) <i>Lens esculata</i> – Lentils	Beet Armyworm ^{2,3,4} Soybean Looper ^{3,4} Lesser Cornstalk Borer ³ Leafminer Spp. ^{3,4} Whitefly Spp. ^{3,4} Spider Mite Spp. ³	0.03	3.84

Remarks

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water/A.
- For edible podded and succulent shelled legume vegetables, do not apply within 7 days of harvest.
- For dried shelled legume vegetables, do not apply within 21 days of harvest.
- Do not apply more than 0.12 lb .a.i. (0.96 pts.)/A per season.
- For succulent and dried shelled peas and beans, do not graze livestock in treated areas or harvest vines for forage or hay.

¹For control before the larva bores into the plant stalk or pods.

²For control of the first and second instar only.

³For suppression only.

⁴See resistance statement under General Directions for Use.

6/11

Crop	Target Pests	Rate	
		lb. a.i./A	fl. oz./A
POME FRUITS			
Apple Crabapple Loquat Mayhaw Oriental Pear Pear Quince	Leafroller Spp. Codling Moth Tufted Apple Budworm Oriental Fruit Moth Lesser Appleworm Green Fruitworm Tent Caterpillar Spp. Tentiform Leaf Miner Spp. Apple Maggot (Adult) Cherry Fruit Fly Spp. (Adult) Pear Sawfly Plum Curculio Japanese Beetle Plant Bug Spp. Stink Bug Spp. Leafhopper Spp. Periodical Cicada Apple Aphid Rosy Apple Aphid Pear Psylla San Jose Scale (fruit infestations only)	0.02-0.04	2.56-5.12

Remarks

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water to obtain full coverage of the foliage or target area. When applying by air, apply in a minimum of 5 gals. of water/A.
- Do not apply within 21 days of harvest.
- Do not apply more than 0.2 lb. a.i. (1.6 pts.)/A per year. Do not apply more than 0.16 lb. a.i. (1.28 pts.)/A per year post bloom.

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Crop	Target Pests	Rate	
		lb. a.i./A	fl. oz./A
STONE FRUITS			
Apricot Sweet and Tart Cherry Nectarine Peach Plum Chickasaw Plum Damson Plum Japanese Plum Plumcot Prune	Leafroller Spp. Peach Twig Borer Oriental Fruit Moth Peachtree Borer Spp. Green Fruitworm Tent Caterpillar Spp. American Plum Borer Cherry Fruit Fly Spp. (Adult) Plum Curculio Rose Chafer Japanese Beetle Plant Bug Spp. Stink Bug Spp. Leafhopper Spp. Periodical Cicada Black Cherry Aphid	0.02-0.04	2.56-5.12

Remarks

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold.
- Apply with ground or air equipment using sufficient water to obtain full coverage of the foliage or target area. When applying by air, apply a minimum of 5 gals. of water/A.
- Do not apply within 14 days of harvest.
- Do not apply more than 0.2 lb. a.i. (1.6 pts.)/A per year. Do not apply more than 0.16 lb. a.i. (1.28 pts.)/A per year post bloom.

8/11

Crop	Target Pests	Rate	
		lb. a.i./A	fl. oz./A
TOBACCO (AIR DRIED): BURLEY TOBACCO AND FLUE-CURED TOBACCO			
	Tobacco Budworm Tobacco Hornworm Cabbage Looper Corn Earworm Salt Marsh Caterpillar Armyworm Spp. ¹ Cutworm Spp. Webworm Spp. Tobacco Flea Beetle (Adult) Cucumber Beetle Spp. (Adult) Blister Beetle Spp. Vegetable Weevil (Adult) Japanese Beetle (Adult) Grasshopper Spp. Tree Cricket Spp. Katydid Spp. Plant Bug Spp. ³ Stinkbug Spp. Thrips Spp. ^{2,3} Aphid Spp. ^{2,3}	0.015-0.03	1.92-3.84

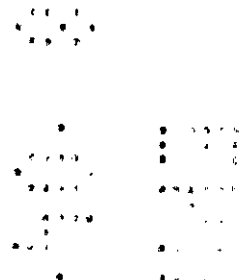
Remarks

- Apply as required by scouting, usually at intervals of 7 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold.
- Apply with ground or air equipment using sufficient water to obtain full coverage of the foliage. When applying by air, apply in a minimum of 2 gals. of water/A.
- Do not apply within 40 days of harvest.
- Do not apply more than 0.09 lb. a.i. (0.72 pts./A) per year.

¹For control of first and second instars only.

²Suppression only.

³See resistance statement under General Directions for Use.



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Crop	Target Pests	Rate	
		lb. a.i./A	fl. oz./A
TREE NUTS			
Almond Beech Nut Brazil Nut Butternut Cashew Chestnut Chinquapin Filbert (Hazlenut) Hickory Nut Macadamia Nut (Bush Nut) Walnut, Black Walnut, English (Persian)	Leafroller Spp. Navel Orangeworm Codling Moth Filbertworm Peach Twig Borer Walnut Husk Fly Spp. (Adult) Ants Plant Bug Spp. Stink Bug Spp. Chinch Bug Leaffooted Bug Walnut Aphid	0.02-0.04	2.56-5.12
Pecan	Hickory Shuckworm Pecan Casebearer Spp. Pecan Weevil Pecan Aphid Spp. Pecan Spittlebug Pecan Phylloxera Spp.	0.02-0.04	2.56-5.12

Remarks

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold.
- Apply with ground or air equipment using sufficient water to obtain full coverage of the foliage or target area. When applying by air, apply in a minimum of 5 gals. of water/A.
- Do not apply within 14 days of harvest.
- Do not apply more than 0.16 lb. a.i. (1.28 pts./A) per year. Do not apply more than 0.12 lb. a.i. (0.96 pts./A) per year post bloom.

10/11

NON-AGRICULTURAL USES			
Crop	Target Pests	Rate	
		lb. a.i./A	fl. oz./A
CONIFER AND DECIDUOUS TREES			
Plantations and Nurseries	Pine Tip Moth Spp. Spruce Budworm Bagworm Tent Caterpillar Spp. Leafroller Spp. Gypsy Moth Webworm Spp. Tussock Moth Spp. Pine Sawfly Spp. Sawfly Spp. Pine Chafer Japanese Beetle May Beetle Spp. June Beetle Spp. Pine Colaspis Beetle Leaf Beetle Spp. Pales Weevil Pine Weevil Spp. Pine Conelet Bug Spittlebug Spp. Pine Leaf Chermid Balsam Wooly Aphid Balsam Twig Aphid	0.02-0.04	2.56-5.12

Remarks

- To control exposed foliage, flower, cone, seed and bark feeding insects, apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground equipment using sufficient water to obtain full coverage of target site. When applying by air, apply a minimum of 2 gals. of water/A.
- Do not apply more than 0.24 lb. a.i. (1.92 pts.)/A per year.

Crop	Target Pests	Rate	
		lb. a.i./A	fl. oz./A
Seed Orchards	Coneworm Spp. Seed Bug Spp.	See Remarks	See Remarks

Remarks

- For high volume sprayers, dilute 5.12 fl. oz. per 100 gals. of water and apply 5-10 gals. of finished spray per tree.
- For low volume sprayers, dilute 20 fl. oz. per 100 gals. of water and apply 100 gals. of finished spray/A.
- For aerial applications, apply 15 fl. oz./A in a minimum of 10 gals. finish spray/A.
- Do not apply more than 0.5 lb. a.i. (4 pts.)/A per year.

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Crop	Target Pests	Rate	
		lb. a.i./A	fl. oz./A
NON-CROPLAND (Excluding Public Land)			
	See Crop Outlets	See Crop Outlets	See Crop Outlets

Remarks

- Spray non-cropland adjacent to agricultural areas to control migratory insects, which may threaten crops.
- Follow General Use Directions, rates and spray recommendations found elsewhere in this label for the adjacent crop outlet and target pests.
- Use highest labeled rates for dense/large foliage, high insect populations and larger larval stages.
- Repeat as necessary to maintain control.
- Do not exceed 0.2 lb. a.i. (1.6 pts.)/A per year.
- Do not graze livestock in treated areas.

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