



**Makhteshim Agan of North America, Inc.**  
 4515 Falls of Neuse Road, Suite 300  
 Raleigh, NC 27609

## Supplemental Labeling

**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.

# SILENCER®

EPA Reg. No. 66222-104

**SUPPLEMENTAL DIRECTIONS FOR USE ON RICE; WILD RICE; CUCURBIT VEGETABLES; GRASS FORAGE, FODDER, AND HAY; OAT, BARLEY, BUCKWHEAT AND RYE; PISTACHIO; AND TUBEROUS AND CORM VEGETABLES**

### DIRECTIONS FOR USE

- It is a violation of Federal law to use this product inconsistent with its labeling.
- This supplemental labeling must be in the possession of the user at the time of pesticide application.
- Follow all applicable directions, restrictions, Worker Protection Standard requirements, and precautions on the EPA registered label.
- These new uses can be found on the EPA stamped label for Silencer (66222-104) dated 11-20-08.

### CROP USE RECOMMENDATIONS AGRICULTURAL USES

CROP	TARGET PESTS	RATE		REMARKS
		lb. a.i./A	fl. oz./A	
<b>CEREAL GRAINS:</b> Rice Wild Rice	Bird Cherry-Oat Aphid Chinch Bug Fall Armyworm Grasshopper spp. Greenbug Leafhopper spp. Rice Stink Bug Rice Water Weevil (Adult) Riceworm Sharpshooter spp. True Armyworm Yellow Sugarcane Aphid Yellow-striped Armyworm	0.025-0.04	3.20-5.12	<p><b>Ground application:</b> Apply in a minimum of 10 gals. per acre or sufficient spray volume to obtain full coverage of the foliage or target area.</p> <p><b>Air application:</b> Mixers/loaders supporting aerial applications to wild rice at a rate of 0.04 a.i./A, and treating 1200 acres (or more) per day must wear dust/mist respirator. Apply in a minimum of 2 gals. per acre in sufficient spray volume to obtain full coverage of the foliage or target area. Adding 1 pint per acre of an emulsifiable crop oil will help improve coverage, reduce evaporation, and improve efficacy.</p> <p>Monitoring of insect populations should be used to determine timing and frequency of applications. Scout fields at a minimum of 5 day intervals.</p> <p>Make applications when pests appear and repeat applications as necessary, usually at intervals of 5-7 days. Apply in sufficient volume to ensure sufficient coverage of foliage. Silencer can be safely used when propanil products are being used for weed control. <i>(continued)</i></p>



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<p><b>CEREAL GRAINS:</b>          Rice          Wild Rice  <i>(continued)</i></p>	<p>European Corn Borer<sup>1</sup>          Mexican Rice Borer<sup>1</sup>          Rice Seed Midge<sup>1</sup>          Rice Stalk Borer<sup>1</sup>          Sugarcane Borer<sup>1</sup></p>	<p>0.03-0.04</p>	<p>3.84-5.12</p>	<p><b>Rice Water Weevil:</b> In dry seeded rice, make a foliar application as indicated by scouting for the presence of adults and/or feeding scars usually within 0-5 days after permanent flood establishment. Do not exceed 10 days from starting permanent flood until insecticide application unless scouting indicates weevils have not been previously present. Adults may also be treated at later stages of rice development to reduce overwintering populations. In water seeded rice, make the first foliar application after pinpoint flood as indicated by scouting for the presence of adults and/or feeding scars usually when rice has emerged 0.5 inch above the waterline. Under conditions of prolonged migration into the field, start field scouting for rice water weevil adults and/or feeding scars 3-5 days after the initial treatment and, if needed, apply a second application within 7-10 days of the first application. Adults may also be treated at later stages of rice development to reduce overwintering populations.</p> <p><b>California:</b> In addition to above directions, for control of rice water weevil in water seeded rice, Silencer may be applied at the 1- to 3-leaf growth stage with the majority at the 2-leaf growth stage. Adults are vulnerable on levees and in the water. Larvae are vulnerable while feeding on the leaf prior to entering the soil. Monitor for adults based upon field history and density of population. Monitor field edges and levee areas for adults. Treat in the following manner: a) spray the inside perimeter of the field, or b) spray the entire field.</p> <p>Green Bug: Known to have many biotypes, Silencer may only provide suppression. If satisfactory control is not achieved, a resistant biotype may be present. Use alternate chemistry for control.</p> <p>For control of stem borers, scout fields, when rice growth is near panicle differentiation, for early symptoms of damaging populations exhibited as discoloration (orange-tan) around the junction of the leaf sheath and leaf blade which is caused by feeding of young larvae within the sheath. Applications must be made before larvae bore into rice stems. Make the first application at panicle differentiation to 2 inch for <i>(continued)</i></p>
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<b>CEREAL GRAINS:</b> Rice Wild Rice <i>(continued)</i>				panicle for partial control. Make the second application at boot to heading for maximum control. All rice varieties are susceptible to stem borer damage, but Cocodrie and Priscilla are particularly susceptible. <sup>1</sup> For control before the larvae bores into the plant stalk.
	<ul style="list-style-type: none"> <li>Do not release floodwater within 7 days of an application.</li> <li>Do not apply more than 0.12 lb. a.i. (0.96 pt.) per acre per season.</li> <li>Do not apply more than 0.04 lb a.i. (0.32 pt.) per acre within 21 to 27 days of harvest.</li> <li>Do not apply within 21 days of harvest.</li> <li>Do not use treated rice fields for the aquaculture of edible fish and crustacea.</li> <li>Do not apply as an ultra-low volume (ULV) spray.</li> </ul>			

CROP	TARGET PESTS	RATE		REMARKS
		lb. a.i./A	fl. oz./A	
<b>CEREAL GRAINS:</b> <b>Barley</b> <b>Buckwheat</b> <b>Oats</b> <b>Rye</b> Triticale Wheat Wheat Hay	Army Cutworm Cutworm spp.	0.015-0.025	1.92-3.20	<b>Ground application:</b> Apply in sufficient spray volume to obtain full coverage of the foliage or target area. <b>Air application:</b> Apply in a minimum of 2 gals. per acre or sufficient spray volume to obtain full coverage of the foliage or target area. Make applications when pests appear and repeat applications as necessary, usually at intervals of 5 or more days. Apply in sufficient volume to ensure sufficient coverage of foliage. <b>Chinch Bug:</b> Repeat applications at 3 to 5 day intervals if needed. Silencer may only suppress heavy infestations and/or migrations. <b>Green Bug:</b> Known to have many biotypes, Silencer may only provide suppression. If satisfactory control is not achieved, a resistant biotype may be present. Use alternate chemistry for control. <sup>1</sup> Best control is obtained before insects begin to roll leaves. Once wheat has started to boot, Silencer may provide suppression only. Higher rates and increased coverage will be necessary. <sup>2</sup> Suppression only. <sup>3</sup> See resistance statement under GENERAL INFORMATION. <sup>4</sup> Make applications when adults emerge.
	Armyworm	0.02-0.03	2.56-3.84	
	Bird Cherry-Oat Aphid <sup>1</sup> Cereal Leaf Beetle English Grain Aphid <sup>1</sup> Fall Armyworm Flea Beetle spp. Grasshopper spp. Hessian fly <sup>4</sup> Orange Blossom Wheat Midge Russian Wheat Aphid <sup>1</sup> Stink Bug spp. Yellow-striped Armyworm			
	Grass Sawfly	0.025-0.03	3.20-3.84	
	Chinch Bug Corn Leaf Aphid <sup>2</sup> Greenbug <sup>1,3</sup> Mite spp. <sup>2</sup>	0.03	3.84	
<ul style="list-style-type: none"> <li>Do not apply within 30 days of harvest.</li> <li>Do not allow livestock to graze in treated areas or harvest treated wheat forage as feed for meat or dairy animals within 7 days after treatment. Do not feed treated straw to meat or dairy animals within 30 days after the last treatment.</li> <li>Do not apply more than 0.06 lb. a.i. (0.48 pt.) per acre per season.</li> </ul>				



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<b>COLE CROPS</b> <b>Head and stem</b> <b>brassica crop</b> <b>group including:</b> Broccoli Brussels Sprouts Cabbage Cavalo Broccolo Cauliflower Chinese Broccoli (gai lon) Chinese Cabbage (napa) Chinese Mustard Cabbage (gai choy) Kohlrabi	Alfalfa Looper Cabbage Looper Cabbage Webworm Cutworm spp. Imported Cabbageworm Southern Cabbageworm	0.015-0.025	1.92-3.20	<b>Ground application:</b> Apply in sufficient spray volume to obtain full coverage of the foliage or target area. <b>Air application:</b> Apply in a minimum of 2 gals. per acre or sufficient spray volume to obtain full coverage of the foliage or target area. Make applications when pests appear and repeat applications as necessary, usually at intervals of 5 or more days. Apply in sufficient volume to ensure sufficient coverage of foliage. <sup>1</sup> For control of first and second instar only. <sup>2</sup> Suppression only. <sup>3</sup> See resistance statement under GENERAL INFORMATION.
	Aphid spp. <sup>2,3</sup> Armyworm Beet Armyworm <sup>1,3</sup> Corn Earworm Diamondback Moth <sup>3</sup> Fall Armyworm <sup>1</sup> Flea Beetle spp. Grasshopper spp. Japanese Beetle (Adult) Leafhopper spp. Meadow Spittlebug Plant Bug spp. including Lygus spp. <sup>3</sup> Spider Mite spp. <sup>2</sup> Stink Bug spp. Thrips spp. <sup>2</sup> Vegetable Weevil (Adult) Whitefly spp. <sup>2,3</sup> Yellow-striped Armyworm	0.02-0.03	2.56-3.84	
<ul style="list-style-type: none"> <li>Do not apply within 1 day of harvest.</li> <li>Do not apply more than 0.24 lb.a.i. (1.92 pts.) per acre per season.</li> </ul>				



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		lb. a.i./A	fl. oz./A	
<b>GRASS FORAGE, FODDER, AND HAY</b> Pasture and Rangeland Grass, Grass Grown for Hay or Silage, Grass Grown for Seed	Army Cutworm Cutworm spp. Essex Skipper Range Caterpillar Striped Grass Looper	0.015-0.025	1.92-3.20	<p><b>Ground application:</b> Apply in sufficient spray volume to obtain full coverage of the foliage or target area.</p> <p><b>Air application:</b> Apply in a minimum of 2 gals. per acre or sufficient spray volume to obtain full coverage of the foliage or target area.</p> <p>Monitoring of insect populations should be used to determine timing and frequency of applications. Scout fields at a minimum of 5 day intervals.</p> <p>Apply in sufficient volume to ensure sufficient coverage of foliage.</p> <p><b>Chinch bugs:</b> Silencer may only suppress heavy infestations and/or migrations. In this situation, a second application using an alternative chemistry may be needed.</p> <p><b>Greenbug:</b> Greenbug is known to have many biotypes. Silencer may provide suppression only. In this situation, a second application using an alternative chemistry may be needed.</p> <p><b>Pasture and rangeland grass:</b> May be used for grazing or cut for forage 0 days after application. Do not cut grass to be dried and harvested for hay until 7 days after the last application.</p> <p><b>Grass grown for seed:</b> Straw and mature seed (seed screenings) may be used as feed 7 days after the last</p> <p><sup>1</sup> Best control is obtained before insects begin to roll leaves.  <sup>2</sup> See resistance statement under GENERAL INFORMATION.  <sup>3</sup> Suppression only.</p>
	Beet Armyworm Billbug spp. <sup>3</sup> Bird Cherry-Oat Aphid <sup>1</sup> Black Grass Bug Black Turfgrass Beetle (Adult) Blue Stem Midge Cereal Leaf Beetle Chinch Bug Crane Fly spp. Cricket spp. English Grain Aphid <sup>1</sup> Fall Armyworm Flea Beetle spp. Grass Mealybug Grass Sawfly (Adult) Grasshopper spp. Green June Beetle (Adult) Greenbug <sup>1,2</sup> Japanese Beetle (Adult) Katydid spp. Leafhopper spp. Mite sp. Russian Wheat Aphid <sup>1</sup> Southern Armyworm Spittlebug spp. Stink Bug spp. Sugarcane Aphid Thrips spp. Tick spp. True Armyworm Webworm spp. Yellowstriped Armyworm	0.02-0.03	2.56-3.84	
	<ul style="list-style-type: none"> <li>Do not apply more than 0.03 lb. a.i. (0.24 pts. of product) per acre per cutting for pastures, rangeland and grasses grown for seed. A minimum re-treatment interval (RTI) of 30 days is required for pastures and rangeland receiving 0.03 lb. a.i./A which have not been cut between applications.</li> <li>Do not apply more than 0.09 lb. a.i. (0.72 pts. of product) per acre per season.</li> </ul>			



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CROP	TARGET PESTS	RATE		REMARKS
		lb. a.i./A	fl. oz./A	
<b>CUCURBIT VEGETABLES CROP GROUP</b> <b>Including:</b> Chayote (fruit) Chinese Waxgourd (Chinese preserving melon) Citron Melon Cucumber Gherkin Gourd (edible) <i>Lagenaria</i> spp. – Includes: hyotan, cucuzza <i>Luffa acutangula</i> , Includes: hechima, Chinese okra <i>Momordica</i> spp. - Includes: balsam apple, balsam pear, bitter melon, Chinese cucumber Muskmelon (hybrids and/or cultivars of <i>Cucumis melo</i> ) – Includes: true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon Pumpkin Squash, summer ( <i>Cucurbita pepo</i> var. <i>melo</i> <i>pepo</i> ) – includes: crookneck squash, straightneck squash, vegetable marrow, zucchini Squash, winter ( <i>Cucurbita maxima</i> , <i>C. moschata</i> ) – includes: butternut squash, calabaza, hubbard squash ( <i>C. mixta</i> ; <i>C. pepo</i> ) – Includes: acorn squash, spaghetti squash Watermelon – includes: Hybrids and/or varieties of <i>Citrullus lanatus</i>	Armyworm spp. <sup>1</sup> Blister Beetle spp. Cabbage Looper Corn Earworm Cricket spp. Cucumber Beetle spp. (adults) Cutworm spp. Flea Beetle spp. Grasshopper spp. June Beetle spp. Leaffooted Bug Leafhopper spp. Lygus Bug spp. <sup>1</sup> Melonworm Pickleworm Plant Bug spp. Rindworm spp. complex Saltmarsh Caterpillar Squash Beetle Squash Bug spp. Squash Vine Borer spp. Stink Bug spp. Thrips spp. <sup>1,2</sup> Tobacco Budworm <sup>1</sup> Webworm spp.	0.02–0.03	2.56-3.84	<b>Ground application:</b> Apply in a minimum of 10 gals. per acre or sufficient spray volume to obtain full coverage of the foliage or target area. <b>Air application:</b> Apply in a minimum of 2 gals. per acre or sufficient spray volume to obtain full coverage of the foliage or target area. Monitoring of insect populations should be used to determine timing and frequency of applications. Scout fields at a minimum of 5 day intervals. Apply in sufficient volume to ensure sufficient coverage of foliage. Insects that bore or tunnel into leaves, vines, stems or fruit must be controlled before penetration. Only exposed insects (larvae and/or adults) can be controlled with foliar applications of Silencer. <sup>1</sup> See resistance statement under General Directions for Use. <sup>2</sup> Does not include Western Flower Thrips. <sup>3</sup> Suppression only.
	Aphid spp. <sup>1</sup> Leafminer spp. <sup>1,3</sup> Spider Mite spp. <sup>3</sup> Whitefly spp. <sup>1,3</sup>	0.03	3.84	



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<b>TREE NUTS CROP GROUP</b> <b>Including:</b> Almond Beech Nut Brazil Nut Butternut Cashew Chestnut Chinquapin Filbert (Hazlenut) Hickory Nut Macadamia Nut (Bush Nut) Pistachio Walnut, Black Walnut, English (Persian)	Ants Chinch Bug Codling Moth Filbertworm Leaffooted Bug Leafroller spp. Navel Orangeworm Peach Twig Borer Plant Bug spp. Stink Bug spp. Walnut Aphid Walnut Husk Fly spp. (Adult)	0.02-0.04	2.56-5.12	<b>Ground application:</b> Apply in a minimum of 50 gals. per acre or sufficient spray volume to obtain full coverage of the foliage or target area. <b>Air application:</b> Apply in a minimum of 10 gals. per acre or sufficient spray volume to obtain full coverage of the foliage or target area. Make applications when pests appear and repeat applications as necessary, usually at intervals of 5 or more days. Apply in sufficient volume to ensure sufficient coverage of foliage.
Pecan	Hickory Shuckworm Pecan Casebearer spp. Pecan Weevil Pecan Aphid spp. Pecan Spittlebug Stink bug spp. Pecan Phylloxera spp.	0.02-0.04	2.56-5.12	
<ul style="list-style-type: none"> <li>Do not apply within 14 days of harvest.</li> <li>Do not apply more than 0.16 lb. a.i. (1.28 pts.) per acre per year.</li> <li>Do not apply more than 0.12 lb. a.i. (0.96 pt.) per acre per year post bloom.</li> </ul>				



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<b>TUBEROUS AND CORM VEGETABLES CROP GROUP</b> <b>Including:</b> Arracacha Arrowroot Artichoke (Chinese and Jerusalem only) Canna (edible) Cassava (bitter and sweet) Chayote (root) Chufa Dasheen Ginger Leren Potato Sweet Potato Tanier Turmeric Yam (bean and true)	Cutworm spp. Leafhopper spp. Saltmarsh Caterpillar Sweet Potato Hornworm Woollybear Caterpillar spp.	0.015-0.025	1.92-3.20	<b>Ground application:</b> Apply in a minimum of 10 gals. per acre or sufficient spray volume to obtain full coverage of the foliage or target area. <b>Air application:</b> Apply in a minimum of 2 gals. per acre or sufficient spray volume to obtain full coverage of the foliage or target area. Make applications when pests appear and repeat applications as necessary, usually at intervals of 7 or more days. Apply in sufficient volume to ensure sufficient coverage of foliage. Insects that bore or tunnel into leaves, vines, stems, tubers or corms must be controlled before penetration. Only exposed insects (larvae and/or adults) can be controlled with foliar applications of Silencer. <sup>1</sup> See resistance statement under GENERAL INFORMATION. <sup>2</sup> Does not include Western Flower Thrips. <sup>3</sup> Suppression only.
	Aphid species <sup>1</sup> Armyworm spp. <sup>1</sup> Blister Beetle spp. Colorado Potato Beetle <sup>1</sup> Corn Earworm Cricket spp. Cucumber Beetle spp. (adults) European Corn Borer Flea Beetle spp. (adults) Grasshopper spp. Looper spp. <sup>1</sup> Lygus Bug spp. <sup>1</sup> Plant Bug spp. Potato Psyllid Potato Tuberworm Stink Bug spp. Sweet Potato Leaf Beetle (adults) Sweet Potato Vine Borer Thrips spp. <sup>1,2</sup> Tortoise Beetle spp. Webworm spp. Weevil spp. (adults)	0.02-0.03	2.56-3.84	
	Leafminer spp. <sup>1,3</sup> Whitefly spp. <sup>1,3</sup> Spider Mite spp. <sup>3</sup>	0.03	3.84	
	<ul style="list-style-type: none"> <li>Do not apply more than 0.12 lb. a.i. (0.96 pt.) per acre per year per season.</li> <li>Do not apply within 7 days of harvest..</li> </ul>			

Silencer<sup>®</sup> is a registered trademark of Makhteshim Chemical Works Ltd.

Silencer (66222-104)(EPA app 11-20-08)  
 (NY app 4-10-09)(CA app 4-8-09)