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Innovative natural product solutions for pest management

SERENADE[®] ASO

EPA Reg. No. 69592-12

SUPPLEMENTAL LABEL

Instructions for Use as a Soil Treatment

Includes uses not previously printed on the container label.

This supplemental label expires on September 30, 2010.

For use only in the states of Arizona, Colorado, Delaware, Florida, Georgia, Idaho, Maryland, Michigan, Minnesota, Nebraska, Nevada, North Carolina, North Dakota, Ohio, Oregon, Pennsylvania, South Carolina, South Dakota, Tennessee, Virginia, Washington and Wisconsin.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your state or tribe, consult the state or tribal agency responsible for pesticide regulation.

See label attached to the container for First Aid, Precautionary Statements, Storage and Disposal Instructions and Directions for Use.

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

FOR USE AS A SOIL TREATMENT ON SELECT AGRICULTURAL FIELD CROPS

Serenade ASO has a 0-Day Pre-Harvest Interval for all crops contained on this label. Under moderate to severe disease pressure, for improved performance, increase rates and reduce spray intervals or use Serenade ASO in a tank mix or rotational program with other registered fungicides.

Serenade ASO is a broad spectrum biofungicide for the prevention, suppression and control of soil borne diseases on a wide range of fruits and vegetables. Serenade ASO enhances germination and plant growth by suppressing diseases caused by *Rhizoctonia*, *Pythium*, *Fusarium*, *Verticillium* and *Phytophthora*.

APPLICATION INSTRUCTIONS:

Soil Treatment At Planting:

Use at planting, seeding, or transplant. Mix 2 qt (64 fl oz) to 6 qt (192 fl oz) of Serenade ASO in appropriate amount of water per acre. Use higher application rates under conditions of heavy disease pressure. Apply finished mixture at a rate to thoroughly soak the growing media through the root zone (1 pint finished mixture / sq. ft for each 3 inches of soil depth) as a drench or directed spray using hand held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems. Serenade ASO can be mixed with chemical fungicides registered for soil applications.

Soil Treatment Through Irrigation: Use at any stage of plant growth. Mix 2 qt (64 fl oz) to 6 qt (192 fl oz) of Serenade ASO in appropriate amount of water per acre. Use higher application rates under conditions of heavy disease pressure. Optimal performance is obtained with preventative treatments repeated every 21 to 28 days throughout the growing cycle. Serenade ASO can be mixed with chemical fungicides registered for soil applications.

In-Furrow Applications:

For in-furrow applications, apply Serenade ASO as an in-furrow spray in 5-15 gallons of water at planting. Mount the spray nozzle so the spray is directed in the furrow just before the seeds are covered. Use the higher rates when the weather conditions are expected to be conducive for disease development, if the field has a history of disease problems, or if minimum/low till programs are in place.

See application rate tables for rates and application instructions.

In-Furrow Application Rates

Rate per 1000 row feet fl. oz. product	Product Per Acre (fl oz)						
	22" rows	30" rows	32" rows	34" rows	36" rows	38" rows	40" rows
2.2	52.3	38.3	35.9	33.8	32.0	30.3	28.7
13.2	313.6	230.0	215.4	203.0	192.0	182.0	172.5

40" = 13,068 row ft/acre, 38" = 13,754 row ft/acre, 36" = 14,520 row ft/acre, 34" = 15,374 row ft/acre, 32" = 16,315 row ft/acre, 30" = 17,424 row ft/acre, and 22" = 23,760 row ft/acre.

Application Rates of Serenade ASO for Soil Uses in Field for Soil-borne/Seedling Disease Control

Crops	Disease	Rate	Application Instructions Soil Drench and In-furrow
<p>Root/Tuber and Corm Vegetables</p> <p>Carrot Potato Sweet Potato Cassava Beets Ginger Horseradish Radish Ginseng Turnip and other root/tuber and corm crops, including those grown for seed production.</p> <hr/> <p>Fruiting Vegetables</p> <p>Pepper Tomato Eggplant Ground Cherry Tomatillo Okra and other fruiting vegetables</p>	<p><i>Rhizoctonia</i> spp. <i>Pythium</i> spp. <i>Fusarium</i> spp. <i>Verticillium</i> spp. <i>Phytophthora</i> spp.</p>	<p>Soil Drench 2 – 6 qt/acre</p> <hr/> <p>In-furrow 2.2-13.2 fl oz / 1000 row feet</p>	<p>Soil Drench Uses: Field</p> <p>Mix 2 qt (64 fl oz) to 6 qt (192 fl oz) of Serenade ASO in appropriate amount of water per acre. Use higher application rates under conditions of heavy disease pressure.</p> <p>Apply finished mixture at a rate to thoroughly soak the growing media through the root zone (1 pint finished mixture / sq. ft for each 3 inches of soil depth) as a drench or directed spray using hand held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems.</p> <p>Begin applications at planting, during or after seeding, during or after transplanting and at any stage of plant growth. Optimal performance is obtained with preventative treatments repeated every 21 to 28 days throughout the growing cycle. Serenade ASO can be mixed with chemical fungicides registered for soil applications.</p> <p>In-Furrow Applications:</p> <p>For in-furrow applications, apply Serenade ASO as an in-furrow spray in 5-15 gallons of water at planting. Mount the spray nozzle so the spray is directed in the furrow just before the seeds are covered. Use the higher rates when the weather conditions are expected to be conducive for disease development, if the field has a history of disease problems, or if minimum/low till programs are in place.</p> <p>See in-furrow application table for rates based on row width.</p>

Crops	Disease	Rate	Application Instructions In-furrow
Cucurbits Cucumber Cantaloupe Melon Muskmelon Squash Watermelon and other cucurbit crops	<i>Rhizoctonia</i> spp. <i>Pythium</i> spp. <i>Fusarium</i> spp. <i>Verticillium</i> spp. <i>Phytophthora</i> spp.	In-furrow 2.2-13.2 fl oz / 1000 row feet	In-Furrow Applications: For in-furrow applications, apply Serenade ASO as an in-furrow spray in 5-15 gallons of water at planting. Mount the spray nozzle so the spray is directed in the furrow just before the seeds are covered. Use the higher rates when the weather conditions are expected to be conducive for disease development, if the field has a history of disease problems, or if minimum/low till programs are in place.
Legumes/ Vegetables Green beans Snap beans			See in-furrow application table for rates based on row width.

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