



Bayer CropScience LP
P.O. Box 12014
2 T.W. Alexander Drive
Research Triangle Park, NC 27709
1-866-99BAYER (1-866-992-2937)

SERENADE OPTIMUM®

Reduced application rates recommended for selected field crops when SERENADE OPTIMUM is used in a tank mix with other registered fungicides.

EPA Reg. No. 264-1160

PRODUCT BULLETIN

FOR DISTRIBUTION AND USE IN ALL STATES WITH THE EXCEPTION OF TEXAS

FIFRA Section 2(ee) Recommendation: This recommendation is made as permitted by Section 2(ee) of FIFRA, as amended, and has not been submitted to or approved by the U. S. Environmental Protection Agency.

Reduced application rates recommended for selected field crops when SERENADE OPTIMUM is used in a tank mix with fungicides such as LUNA, FLINT, GEM, SCALA, ALLIETE and other registered fungicides.

DIRECTIONS FOR USE

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

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 State or Tribal agency responsible for pesticide regulation. For use only as described on this label. Not for isolation or deformulation. Do not culture.

SERENADE OPTIMUM may be tank-mixed with other registered pesticides to enhance plant disease control. This product cannot be mixed with any product with a prohibition against such mixing. When tank-mixing SERENADE OPTIMUM with other registered pesticides, always read and follow all use directions, restrictions, and precautions of both SERENADE OPTIMUM and the tank-mix partner(s). Use of the resulting tank mix must be in accordance with the more restrictive label limitations and precautions. Do not exceed label dosage rates.

Application Rates of SERENADE OPTIMUM for Selected Field Crops			
Crops	Disease	Rate oz/acre	Application Instructions
Asparagus	Botrytis Blight <i>Botrytis cinerea</i>	7 - 10	Begin application soon after emergence and when conditions are conducive to disease development. Repeat on 7- to 10-day intervals or as needed. SERENADE OPTIMUM may be applied up to and including the day of harvest.

For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577

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Crops	Disease	Rate oz/acre	Application Instructions
Berry Blueberries Blackberry Raspberry Loganberry Huckleberry Cranberry Gooseberry Elderberry Currant Caneberry Bushberry and other berry crops	Mummy Berry <i>Monilinia vaccinii-corymbosi</i> Anthracoese Fruit Rot <i>Colletotrichum gloeosporioides</i> <i>Colletotrichum acutatum</i> Botrytis Blight <i>Botrytis cinerea</i> Alternaria Fruit Rot <i>Alternaria tenuissima</i> Bacterial Canker* <i>Pseudomonas</i> spp. *NOT FOR USE IN CALIFORNIA	7 - 10	Mummy Berry - For suppression, begin application at the bud break stage of development and repeat on a 7- to 10-day interval or as needed. For improved performance, use SERENADE OPTIMUM in a tank mix or rotational program with other registered fungicides for Mummy Berry control. Bacterial Canker – Apply before fall rains and again during dormancy before spring growth. Apply throughout the growing season prior to disease development and repeat on a 2- to 10-day interval or as needed. Alternaria Fruit Rot and Anthracnose - suppression– Begin application prior to disease development and repeat on a 2- to 10-day interval or as needed. For improved performance of SERENADE OPTIMUM, add a surfactant to the spray tank to improve coverage. Botrytis Blight – Begin application prior to disease development and repeat on a 2- to 10-day interval or as needed. For improved performance of SERENADE OPTIMUM, add a surfactant to the spray tank to improve coverage. Cranberries – Make application to non-flooded fields only. SERENADE OPTIMUM may be applied to fruit up to and including the day of harvest.
Brassica Vegetables (Cole Crops) Broccoli Cabbage Cauliflower Brussels Sprouts Collards Kale Mustard Greens Kohlrabi and other brassica crops	Alternaria Leaf Spot <i>Alternaria</i> spp.	7 - 10	Begin application soon after emergence or transplant and when conditions are conducive to disease development. Repeat on a 3- to 10-day interval or as needed.

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Bulb Vegetables Onion Garlic Shallots and other bulb vegetables including those grown for seed production.	Botrytis Neck Rot <i>Botrytis</i> spp. Botrytis Leaf Blight <i>Botrytis squamosa</i> Onion Purple Blotch <i>Alternaria porri</i> White Rot <i>Sclerotium cepivorum</i>	7 - 10	Begin application when environmental conditions are conducive to disease development and repeat on a 7- to 10-day interval or as needed. Apply sufficient water to provide complete coverage of plants. When conditions are conducive to rapid disease development, use SERENADE OPTIMUM in a rotational program with other registered fungicides
Citrus* Orange Grapefruit Lemon Tangerine Tangelo Pummelo and other citrus crops	Greasy Spot* <i>Mycosphaerella citri</i> Post Bloom Fruit Drop* <i>Colletotrichum Acutatum</i> Melanose* <i>Diaporthe citri</i> Alternaria Leaf Spot* <i>Alternaria alternate</i> *NOT FOR USE IN CALIFORNIA	7 - 10	Greasy Spot - For suppression, begin applications at first new foliar flush, and repeat with subsequent new flushes. When conditions are conducive to rapid disease development, SERENADE OPTIMUM may be used in a tank mix program with other registered products, such as spray oil or copper-based fungicides, at labeled rates. Post Bloom Fruit Drop – For suppression, begin applications at early bloom and when conditions are conducive to disease development. Repeat on a 7- to 10-day interval or as needed. Utilize the shorter spray interval between applications if warm, wet conditions persist. Melanose – For suppression, begin applications at petal fall and repeat on a 14- to 21-day interval until fruit becomes resistant. Alternaria Leaf Spot – Begin applications when environmental conditions and plant stage are conducive to disease development. Repeat on 7- to 10-day intervals or as needed. For improved performance on Post Bloom Fruit Drop, Scab and Melanose, use SERENADE OPTIMUM in a tank mix or rotational program with other registered fungicides.

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Fruiting Vegetables Pepper Tomato Eggplant Ground Cherry Tomatillo Okra and other fruiting vegetables	Bacterial Spot* <i>Xanthomonas</i> spp. Target Spot* <i>Corynespora</i> <i>Cassicola</i> *NOT FOR USE IN CALIFORNIA	7 - 8	Begin application soon after emergence or transplant and when environmental conditions are conducive to disease development. Continue applications on a 2- to 7-day interval or as needed. When conditions are conducive to rapid disease development, for improved control, use SERENADE OPTIMUM in a tank mix program with copper-based bactericides registered for control of Bacterial Spot at labeled rates.
	Bacterial Speck* <i>Pseudomonas syringae</i> pv. <i>Tomato</i> *NOT FOR USE IN CALIFORNIA	7 - 10	Begin application soon after emergence or transplant and when environmental conditions are conducive to disease development. Continue applications on a 2- to 7-day interval or as needed. Use the stated higher rates when conditions are conducive to rapid disease development.
	Early Blight <i>Alternaria solani</i> Late Blight <i>Phytophthora infestans</i>	7 - 10	For suppression, begin application when plants are 4 to 6 inches high. Repeat applications on a 5- to 7-day interval or as needed. For improved performance, use SERENADE OPTIMUM in a tank mix or rotational program with other registered fungicides. Use the stated shorter spray intervals under conditions conducive to rapid disease development.
	Buck-eye Rot <i>Phytophthora parasitica</i> Anthracnose <i>Colletotrichum</i> <i>Candidum</i>	7 - 10	Begin application soon after emergence or transplant and continue on a 7- to 10-day interval or as needed. For improved performance of SERENADE OPTIMUM, add a surfactant to the spray tank to improve coverage.
	Gray Mold <i>Botrytis cinerea</i>	7 - 10	Begin application soon after emergence or transplant and repeat on a 7- to 10-day interval or as needed.

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Grape	Gray Mold <i>Botrytis cinerea</i>	7 - 10	Begin application at bloom, before bunch closure, at veraison and preharvest. Apply in sufficient water to provide full coverage.
	Sour Rot [a complex of pathogens <i>Aspergillus niger</i> , <i>Alternaria tenuis</i> , <i>Botrytis cinerea</i> , <i>Cladosporium herbarum</i> , <i>Rhizopus arrhizus</i> , <i>Penicillium</i> spp., and others]		SERENADE OPTIMUM may be applied to fruit up to and including the day of harvest.
	Powdery Mildew <i>Uncinula necator</i>	7 - 10	Begin application when new shoots are ½ to 1½ inches long. Repeat when shoots are 3 to 5 inches long, when shoots are 8 to 10 inches long and then at 7- to 10-day intervals until disease conditions no longer exist. Use the stated higher rate and shorter interval when conditions are conducive to rapid disease development. Apply in sufficient water to provide thorough coverage.
	Phomopsis <i>Phomopsis viticola</i>	7 - 10	Begin applications when shoots are ½ to 1 inch long and repeat when shoots are 6-8 inches long.
Herbs/ Spices	Anthraco <i>Colletotrichum</i> spp.	7 - 10	Begin application when environmental conditions are conducive to disease development. Repeat on 7- to 10-day intervals or as needed.
	Alternaria Leaf Blight <i>Alternaria</i> spp.		
	Botrytis <i>Botrytis</i> spp.		

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Leafy Vegetables Lettuce Celery Spinach Parsley Radicchio and other leafy vegetable crops including those grown for seed production	Pink Rot <i>Sclerotinia sclerotiorum</i>	7 - 10	Pink Rot – Begin application approximately 8 weeks before harvest and repeat on a 14-day interval. Apply SERENADE OPTIMUM as a directed spray in sufficient water to ensure thorough coverage of the base of the plants and the surrounding soil surface. Light irrigation following application to incorporate SERENADE OPTIMUM may improve disease control.
	Sclerotinia Head and Leaf Drop <i>Sclerotinia</i> spp.	7 - 10	For control of Sclerotinia Head and Leaf Drop: Apply as a directed spray with multiple nozzles per each seed line in sufficient water to ensure thorough coverage of lower plant leaves and surrounding soil surface within 7 days of thinning or transplanting. Repeat applications on 10- to 14-day intervals if conditions for disease development persist. Use the stated higher rates under conditions conducive to moderate to severe disease pressure. Light irrigation after application to incorporate the product may improve disease control.
Legumes/ Vegetables (succulent and dried beans and peas) Beans Green beans Snap beans Shell beans Soybeans Dry Beans Garbanzo beans Lima beans Peas Chick peas Split peas Lentils and other legume/vegetable crops including those grown for seed production	White Mold (Sclerotinia Stem Rot) <i>Sclerotinia sclerotiorum</i> Gray Mold (Botrytis Blight) <i>Botrytis</i> spp.	7 - 10	Begin application soon after emergence or transplant and when conditions are conducive to disease development. Repeat on 7- to 10-day intervals or as needed. When conditions are conducive to rapid disease development, use SERENADE OPTIMUM in a rotational program with other registered fungicides.

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Oil Seed Crops Canola Castor Coconut Cotton Flax Oil Palm Olive Peanut Rapeseed Safflower Sesame Sunflower Soybeans and other oilseed crops including those grown for seed production	White Mold (Sclerotinia Stem Rot) <i>Sclerotinia sclerotiorum</i>	7 - 10	For suppression of White Mold, begin application soon after emergence and when conditions are conducive to disease development. Repeat on 7- to 10-day intervals or as needed. Use the stated higher rates and shorter application intervals under heavy disease pressure.
Peanut*	White Mold* <i>Sclerotinia sclerotiorum</i> *NOT FOR USE IN CALIFORNIA	7 - 10	Begin application when environmental conditions are conducive to disease development. Repeat applications on 14-day intervals or as needed.

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Pome Fruit Apple Crabapple Pear Quince Mayhaw and other pome fruit	Fire Blight <i>Erwinia amylovora</i>	7 - 10	<p>For disease suppression, begin application at 1 – 5% bloom and repeat or as needed to protect open, untreated blossoms when conditions favoring disease development are likely to occur. For maximum effectiveness, use SERENADE OPTIMUM prior to and as close as possible to Fire Blight infection events. During periods of rapid bloom development and frequent infection periods, use 2- to 7-day spray intervals. After petal fall, continue applications on a 7-day interval while environmental conditions favor disease development.</p> <p>Apply in sufficient water to provide full coverage. For improved performance, SERENADE OPTIMUM may be used in a rotational program with antibiotics registered for Fire Blight control such as but not limited to oxytetracycline or streptomycin.</p> <p>Proper orchard cultural practices are essential to eliminate Fire Blight-infected tissue from the orchard to assure good performance of any crop protection product. Care must be taken to remove and destroy dead and diseased wood from the orchard prior to and during the growing season.</p> <p>Use of SERENADE OPTIMUM alone has not been shown to affect fruit finish. Use caution when selecting spray adjuvants. Select only those adjuvants which through prior experience do not affect fruit finish when combined with SERENADE OPTIMUM.</p>

(Continued)

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Continued Pome Fruit Apple Crabapple Pear Quince Mayhaw and other pome fruit	Brooks Spot* <i>Mycosphaerella pomi</i>	7 - 10	For control of Brooks Spot, Cedar Apple Rust, Flyspeck, Sooty Blotch, Bot Rot, Bitter Rot and Bull's Eye Rot: Begin applications pre-bloom when environmental conditions are conducive to disease development. Repeat applications at 7- to 14-day intervals or as needed. Apply in sufficient spray volume to ensure thorough coverage. Use the stated higher application rates and shorter spray intervals when conditions are conducive to rapid disease development or heavy disease pressure. For improved performance of SERENADE OPTIMUM, add a surfactant, known to be safe to the target crop, to the spray tank to improve coverage and wetting of plant surfaces. SERENADE OPTIMUM may be applied up to and including the day of harvest (0-day PHI).
	Cedar Apple Rust* <i>Gymnosporangium juniperi-virginianae</i>		
	Flyspeck* <i>Schizothyrium pomi</i>		
	Sooty Blotch* <i>Gloeodes pomigena</i>		
	Bot Rot* <i>Botryosphaeria dothidea</i>		
	Bitter Rot* <i>Colletotrichum</i> spp.		
	Bull's Eye Rot* <i>Neofabraea</i> spp.		
	*NOT FOR USE IN CALIFORNIA		
	Powdery Mildew* <i>Podospaera Leucotricha</i>	7 - 10	Begin application at tight cluster, or sooner, if conditions are conducive to disease development. Repeat applications through the second cover spray on a 7- to 10-day interval. Additional sprays beyond second cover may be needed on susceptible varieties or when environmental conditions are conducive to rapid disease development. Use the stated high label rate and shorter spray interval when conditions are conducive to rapid disease development.
	*NOT FOR USE IN CALIFORNIA		

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Root / Tuber and Corm Vegetables Carrot Potato Sweet Potato Beets Ginger Horseradish Radish Ginseng Turnip and other root/ tuber and corm crops including those grown for seed production	Black Rot/ Black Crown Rot <i>Alternaria</i> spp. Bacterial Leaf Spot* <i>Xanthomonas campestris</i> pv. <i>Carotae</i> *NOT FOR USE IN CALIFORNIA	7 - 10	Begin application soon after emergence or transplant and when conditions are conducive to disease development. Repeat on a 7- to 10-day interval or as needed. Use the stated high rate and shorter interval when conditions are conducive to rapid disease development. Apply in sufficient water to provide thorough coverage.
	White Mold <i>Sclerotinia sclerotiorum</i> Gray Mold <i>Botrytis</i> spp.	7 - 10	Begin application soon after emergence or transplant and when conditions are conducive to disease development. Repeat on a 7- to 10-day interval or as needed. For suppression of White Mold, begin application soon after emergence or transplant and when conditions are conducive to disease development. Repeat on a 7- to 10-day interval or as needed.
	Aerial Stem Rot* <i>Erwinia carotovora</i> *NOT FOR USE IN CALIFORNIA	7 - 10	For suppression, begin applications at the first sign of disease, or when conditions become conducive for disease development. Repeat or as needed on a 7- to 10-day interval.

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Stone Fruit Apricot Cherry Nectarine Peach Plum Prune and other stone fruit crops	Anthracnose <i>Colletotrichum</i> spp. Fruit Brown Rot <i>Monilinia fruticola</i> Brown Rot Blossom Blight <i>Monilinia laxa</i> Powdery Mildew* <i>Sphaerotheca pannosa</i> <i>Podosphaera clandestine</i> <i>Podosphaera</i> spp. Alternaria Spot / Fruit Rot <i>Alternaria alternata</i> Gray Mold <i>Botrytis cinerea</i> Shot Hole <i>Wilsonomyces carpophilus</i> <i>Xanthomonas pruni</i> Bacterial Leaf Spot/ Bacterial Spot* <i>Xanthomonas Arboricola</i> *NOT FOR USE IN CALIFORNIA	7 - 10	<p>Anthracnose and Fruit Brown Rot - suppression - Begin application prior to disease development when environmental conditions and plant stage are conducive to rapid disease development and repeat on a 7- to 10-day interval or as needed.</p> <p>Brown Rot Blossom Blight – Begin application at early bloom and repeat through petal fall on a 7-day interval or as needed.</p> <p>Bacterial Canker – Apply post harvest before fall rains and again during dormancy before spring growth.</p> <p>Powdery Mildew - For suppression, begin application at popcorn stage and repeat on a 7-day interval or as needed</p> <p>Bacterial Leaf Spot / Bacterial Spot - Begin applications at bud break and continue on a 7- to 14-day schedule or as needed until harvest. During periods of rapid disease development and frequent infection periods, SERENADE OPTIMUM may be used in a program with other registered antibiotics and/or copper bactericides. For the improved performance of SERENADE OPTIMUM, add a surfactant to the spray tank to improve coverage.</p> <p>For all diseases: Use the stated higher rates and shorter application intervals under heavy disease pressure. For improved performance, use SERENADE OPTIMUM in a tank mix or rotational program with other registered fungicides.</p> <p>Post harvest disease protection – To aid in the control of post harvest infections of Botrytis and Monilinia, apply SERENADE OPTIMUM prior to harvest with sufficient water to thoroughly cover fruit. Apply on a 7-day schedule or as needed up until the time of harvest.</p> <p>SERENADE OPTIMUM may be applied to fruit up to and including the day of harvest.</p>

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Strawberry	Botrytis <i>Botrytis cinerea</i> Gray Mold <i>Botrytis</i> spp. Powdery Mildew* <i>Sphaerotheca macularis</i> <i>Erysiphe</i> spp. Anthracnose* <i>Colletotrichum acutatum</i> *NOT FOR USE IN CALIFORNIA	7 - 10	Botrytis / Powdery Mildew - For suppression, begin application at or before flowering and repeat on 7- to 10-day intervals or as needed through harvest. Use the stated higher rates and shorter application intervals under heavy disease pressure. For improved performance, use SERENADE OPTIMUM in a tank mix or rotational program with other registered fungicides for Powdery Mildew and Botrytis control. Anthracnose – Begin application prior to disease development and repeat on 7- to 10-day intervals or as needed. Use the stated higher rates and shorter application intervals under heavy disease pressure. For improved performance, use SERENADE OPTIMUM in a tank mix or rotational program with other registered fungicides. Thorough coverage is essential. SERENADE OPTIMUM may be applied up to and including the day of harvest.
Tree Nuts Almond Pistachio Pecan Walnut Filberts Chestnut Cashew Beechnut Butternut Macadamia and other tree nut crops	Alternaria Leaf Spot <i>Alternaria alternata</i> Anthracnose <i>Colletotrichum acutatum</i> Shot Hole <i>Wilsonomyces carpophilus</i> <i>Xanthomonas pruni</i> Brown Rot <i>Monilinia</i> spp.	7 - 10	Anthracnose, Shot Hole and Brown Rot - suppression - Begin application prior to disease development and repeat on 7- to 10-day intervals or as needed. Alternaria Leaf Spot – Begin application prior to disease development and repeat on 7- to 10-day intervals or as needed. Use the stated higher rates and shorter application intervals under heavy disease pressure. For improved performance, use SERENADE OPTIMUM in a tank mix or rotational program with other registered fungicides.
Kiwi	Botrytis Fruit Rot <i>Botrytis cinerea</i> Sclerotinia <i>Sclerotinia sclerotiorum</i>	7 - 10	Begin application at early bloom and repeat on 7-to 10-day intervals or as needed. SERENADE OPTIMUM may be applied to fruit up to and including the day of harvest.

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