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Serenade®

A Wettable Powder Biofungicide

ACTIVE INGREDIENT

QST 713 strain of dried Bacillus subtilis 10%

INERT INGREDIENTS 90%

Contains a minimum of 5 x 10⁹ cfu/g

EPA Reg No. 69592-7

EPA Est. No.:

1 2 3 4 69592- 87545- 66728- 37429- 69592-MEX-1 AZ-1 GA-2 GA-2 CA-1

Superscript corresponds to last digit of lot number stamped on container

U.S. Patent Nos. 6,060,051, 6,103,228 and 6,291,428 on QST 713 strain of *Bacillus subtilis*

Net weight:

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

IF IN EYES: 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.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

IF ON SKIN: Take off contaminated clothing. Rinse skin with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

PRECAUTIONARY STATEMENTS— Agricultural Use HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water. Get medical attention if irritation persists. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- NIOSH approved respirator with any N, P, R or HE filter.

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

USER SAFETY RECOMMENDATIONS

Users should:

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS— Agricultural Use

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 contaminate water when disposing of equipment washwaters or rinsate. Do not apply when weather conditions favor drift or runoff from treated areas.

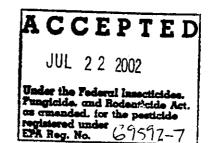
For Agricultural Use

DIRECTIONS FOR USE -- Agricultural 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 agency responsible for pesticide regulation.

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 emergencies such as leaks or spills, call 24-hour toll-free CHEMTREC hotline at 1,800 424,9300.



96%

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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 intervals. 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 4 hours.

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, waterproof gloves, shoes plus socks.

STORAGE, DISPOSAL & SPILLS - Agricultural Use

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

STORAGE: Store in a dry area inaccessible to children. Store in original containers only. Keep container closed when not in use.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water when disposing of equipment rinsate.

CONTAINER DISPOSAL:

For 1000 lb. bulk bag with liner: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Dispose of liner in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke. Return empty bulk bag to manufacturer for reuse. If bulk bag is contaminated and cannot be reused, dispose of in the same manner as liner.

For all other agricultural use containers: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by State and local authorities, by ourning. If burned, stay out of smoke.

GENERAL USE INFORMATION- Agricultural Use

Serenade is a broad spectrum, preventative biofungicide recommended for the control or suppression of many important plant diseases. Serenade may be applied as a foliar spray alone, in alternating spray programs or in tank mixes with other registered crop protection products. Serenade may be applied with spray equipment commonly used for making ground applications.

INTEGRATED PEST MANAGEMENT (IPM)

Integrate Serenade into an overall disease and pest management strategy whenever fungicide use is necessary. Follow practices known to reduce disease development. Consult local agricultural authorities for specific IPM strategies developed for your crop(s) and location.

USE RATE DETERMINATION - Agricultural Use

Carefully read and follow all label directions, use rates and restrictions. Serenade should be applied prior to or in the early stages of disease development. Use maximum label rates and shortened spray intervals for conditions conducive to threatening or rapid disease development. For proper application, determine the number of acres to be treated, the recommended label use rate and select appropriate gallonage to give good canopy penetration and coverage of plant parts to be protected. Prepare only the amount of spray solution required to treat the measured acreage. Accurate spray equipment calibration is essential prior to use.

PREHARVEST INTERVAL - Agricultural Use

Serenade can be applied up to and including the day of harvest.

APPLICATION INSTRUCTIONS - Agricultural Use

GROUND: Thorough coverage is essential for optimum disease control. To achieve good coverage use proper spray pressure, gallonage per acre, nozzles, nozzle spacing and ground speed. Consult spray nozzle and accessory catalogues for specific information on proper equipment calibration.

AERIAL: Do not apply this product by air.

CHEMIGATION: Do not apply this product through any type of irrigation system.

Serenade[®] Master Label

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MIXING INSTRUCTIONS - Agricultural Use

MIXING: Serenade is intended for dilution with water for spray application and may be used in spray equipment commonly used for making ground applications. Partially fill the spray tank with clean water and begin agitation. Add the specified amount of Serenade to the tank. Finish filling the tank to the desired volume to obtain the proper spray concentration. Maintain agitation continuously while spraying. Do not allow spray mixture to stand overnight or for prolonged periods. Maintain a spray solution pH between 4.5 and 8.5.

COMPATIBILITY: Serenade may be tank mixed with other registered pesticides to enhance plant disease control. Do not exceed recommended dosage rates. This product cannot be mixed with any product with prohibition against such mixing. Use of the resulting tank mix must be in accordance with the more restrictive label limitations and precautions. If the user does not have prior experience with the tank mix combinations, conduct a jar test to determine physical compatibility and test the combination on a small portion of the crop to be treated to ensure that a phytotoxic response will not occur as a result of application. Do not use with penetrant-type adjuvants.

Recommended Application Rates for Selected Crops – Agricultural Use (Serenade has a 0-Day PreHarvest Interval for all crops contained on this label)

Crops	Disease	Rate lbs/acre*	Use Recommendations
Apple. Pear	Fire Blight Erwinia smylovora	6 · 8	For suppression begin applications at 1 – 5% bloom and repeat as necessary to protect open, untreated blossoms when conditions favoring disease development are likely to occur. For maximum control, application of Serenade should be made prior to and as close as possible to fire blight infection events. During periods of rapid bloom development and frequent infection periods, spray intervals of 3 – 7 days may be required. For apples and pears after petal fall, continue applications at 7-day intervals while environmental conditions favor rapid disease development. Apply in sufficient water to provide full coverage. It is recommended that Serenade be used in a rotational program with antibiotics registered for fire blight control such as but not limited to oxytetracycline or streptomycin. 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. Use of Serenade 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.
	Scab Venturia spp.	6 - 8	For suppression begin applications at green tip or when environmental conditions become favorable for primary scab development. It is recommended that Serenade be used in a tank mix for enhanced disease control with another fungicide registered for scab control on a 7- to 10-day schedule.
	Powdery Mildew Podosphaera leucotricha	6 - 8	Begin application at tight cluster, or sooner, if conditions are conducive to onset of disease development. Continue applications through the second cover spray at 7- to 10-day Intervals. Additional sprays beyond second cover may be needed on susceptible varieties or when environmental conditions are conducive to rapid disease development. Use high label rate and shorter spray intervals when conditions are conducive to rapid disease development.
Beans, snap*	Bean Rust Uromyces appendiculatus	4 - 8	For suppression, begin applications soon after emergence or transplant and continue on a 7-day interval or as needed. When conditions are conductive to rapid disease development it is recommended that Serenade be used in a rotational program with other registered fungicides.
	White Mold Scierotinia scierotiorum	4 - 8	Begin applications soon after emergence or transplant and continue on a 7-day interval or as needed. When conditions are conducive to rapid disease development it is recommended that Serenade be used in a rotational program with other registered fungicides
Blueberries*	Mummy berry Monilinia vaccinii-corymbosi	8	For suppression, begin applications at the bud break stage of development and repeat at 7-day intervals or as needed.
Broccali	Pin Rot Attemaria/Xanthomonas complex		For suppression, begin applications when environmental conditions are conducive to rapid disease development. Continue sprays at 7-day intervals.
Carrot*	Black Root Rot/Black Crown Rot Alternaria spp.		Begin applications when environmental conditions are conducive to rapid disease development. Continue sprays at 7-day intervals or as needed.
	Bacterial Leaf Blight Xanthomonas campestris		Begin applications when environmental conditions are conducive to rapid disease development. Continue sprays at 7-day intervals or as needed. Use high rates and shorter intervals when conditions are conducive to rapid disease development. Apply in sufficient water to provide thorough coverage.

Not for use in California

[#] Rate presented in lbs./acre unless otherwise noted.

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Crops	Disease	Rate lbs./acre*	Use Recommendations
Cherry	Gray Mold Botrytis cinerea	6-8	Begin applications when environmental conditions and plant stag- are conducive to rapid disease development. Continue at 7-da intervals.
_	Powdery Mildew Podosphaere clandestina	6-8	For suppression, begin application at popcorn and repeat every days as needed.
Cucurbits	Powdery Mildew Erysiphe spp. Sphaerothecu spp.	4-8	Begin applications soon after emergence or transplant and continue on a 7-day interval or as needed. When conditions are conducive to rapid disease development, it is recommended that Serenade be used in a rotational program with other registered fungicides.
Grape	Grey Mold Bolnytis cinerea Sour Rot	4-8	Make applications at bloom, before bunch closure, at veraison and preharvest, up to day of hervest if necessary. Apply in sufficient water to provide full coverage.
	Powdery Mildew Uncinula necator	4 – 8	Start application when new shoots are 1/2- inches long. Repea 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 high rates and shorter intervals when conditions are conducive to rapid disease development. Apply in sufficient water to provide thorough coverage.
	Downy Mildew* Plasmopara viticola	5-8	For suppression apply at 10-inch shoot, then at 7-day intervals until bunch closure (berry touch).
Нор*	Powdery Mildew Sphaerotheca macularis	6 - 10 lbs:/100 gal	Use the higher rates when moderate to high disease pressure is present or expected. Do not apply more than 10 lbs./acre per application.
			Begin applications when environmental conditions are conducive to rapid disease development. Continue sprays at 7-day intervals or as needed. Apply at a rate of 6-10 lbs. per 100 gallons of water using ground equipment.
		, ,	Minimum spray volume recommendations for hop growth stages are as follows:
			Emergence to training: Use 6-10 lbs, of product per 100 gallons or water. Apply using a minimum spray volume of 20 gallons per acre. Coverage will vary with the size of the vines and the type of spray equipment. Apply adequate spray volume to achieve complete spray coverage.
			Training to wire: Use 8-10 lbs. of product per 100 gallons of water. Apply using a minimum spray volume of 50 gallons per acre. Coverage will vary with the size of the vines and the type of spray equipment. Apply adequate spray volume to achieve complete spray coverage.
			Wire touch through harvest: Use 6-10 lbs, of product per acre. Apply in a minimum spray volume of 100 gallons per acre. Higher water volumes may be necessary to achieve thorough coverage after side arms develop. Do not apply more than 10 lbs, of product per acre per application. Apply adequate spray volume to achieve complete spray coverage.
eafy /egetables except Brassica)	Downy Mildew Bramia lactucae Peronospora spp. Powdery Mildew Erysiphe cichoracearum	3 - 6	For suppression, use as a preventative treatment in early crop stages in a tank mix or alternating spray program with other registered fungicides. Apply as a foliar spray and begin applications when conditions favor disease development. Continue sprays at 7- to 10-day intervals or as needed. Apply in sufficient water to ensure complete coverage of entire plant. When conditions are conducive to rapid disease development, it is recommended that Serenade be used in a rotational program with other registered fungicides for

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Crops	Disease	Rate lbs./acre	Use Recommendations
Leafy Vegotables (except Brassica), continued	Scierotinia head and leaf drop Scierotinia spp.	4-6	For control of early Scienotinia head and leaf drop: Apply at planting or immediately following planting but prior to crop emergence as a 4-to 6-inch seed line treatment. Make a second application 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. Additional applications should be made on 10- to 14-day intervals if conditions for disease development persist. Use higher rates under conditions conducive to moderate to severe disease pressure. Light Irrigation after application to incorporate the product may improve disease control. OR For control of Scienotinia 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 Additional applications should be made on 10- to 14-day Intervals if conditions for disease development persist. Use higher rates under conditions conducive to moderate to severe disease pressure. Light irrigation after
Mint*	Rust Puccinia menthae	4 - 8	application to incorporate the product may Improve disease control. Begin applications when plants are 4-6 inches high. Repeat
Onton*	Botrytis Neck Rot Botrytis spp. Botrytis Leaf Blight Botrytis squamosa Onion Purple Blotch Alternaria porri Onion Downy Mildew Peronospora destructor	6-10	applications at 7-day Intervals or as needed. Begin applications when environmental conditions are conducive to disease development and continue as needed for disease control. Apply in sufficient water to provide complete coverage of plants. Continue sprays at 7-day intervals or as needed. When conditions are conducive to rapid disease development, it is recommended that Serenade be used in a rotational program with other registered fungicides for Botrytis neck rot control.
Garlic*	Botrytis Neck Rot Botrytis spp.	8-10	Begin applications when environmental conditions are conducive to disease development and continue as needed for disease control. Apply in sufficient water to provide complete coverage of plants. Continue sprays at 7-day intervals or as needed. When conditions are conducive to rapid disease development, it is recommended that Serenade be used in a rotational program with other registered fungicides for Botrytis neck rot control.
	Rust Puccinia pomi	2 – 6	For suppression, it is recommended that Serenade be used as part of a preventative disease control program in alternation or tank mix with other registered fungicides. Apply in sufficient water to provide complete coverage of plants. Continue applications as needed.
Peanut*	Early Leaf Spot Cercospera arachidicola Late Leaf Spot Cercosporidium personatum	2 - 8	Begin applications when environmental conditions are conducive to disease development. Continue applications at 14-day intervals or as needed. It is recommended that Serenade be used in a tank mix program with copper-based fungicides registered for control of peanut leaf spot at labeled rates. Peanut hay may be fed to livestock.
Pepper	Gray Mold* Botrytis cineres	4 8	Begin applications soon after emergence or transplant and continue on a 7-day interval or as needed. When conditions are conducive to rapid disease development, it is recommended that Serenade be used in a rotational program with other registered fungicides.
	Powdery Mildew Oidiopsis taurica	6 - 8	For suppression, begin applications soon after emergence or transplant and continue on a 7-day interval or as needed. When conditions are conducive to rapid disease development, it is recommended that Serenade be used in a rotational program with other registered fungicides.
	Bacterial Spot* Xanthomonas spp.	2-8	Begin applications soon after emergence or transplant and when environmental conditions are conducive to disease development. Continue applications on a 5- to 7-day interval or as needed. When conditions are conducive to rapid disease development, it is recommended that Serenade be used in a tank mix program with copper-based bactericides registered for control of bacterial spot at labeled rates.

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Rate presented in lbs./acre unless otherwise noted.

Crops	Disease	Rate	Use Recommendations
Potato	Early Blight Alternaria solani	6	For suppression, begin applications when plants are 4- to 6-inches high. Repeat applications at 5- to 7-day intervals or as needed. It is
	Late Blight Phytophthora infestens	6	recommended that Serenade be used in a rotational program with ot registered fungicides for foliar disease control. Use shorter sp. intervals under conditions conducive to rapid disease development.
Tomato*	Early Blight Alternaria solani Late Blight Phytophthore infestans	4 - 8	For suppression, begin applications when plants are 4- to 6-inches high. Repeat applications at 5- to 7-day intervals or as needed. It is recommended that Serenade be used in a rotational program with other registered fungicides for foliar disease control. Use shorter spray intervals under conditions conducive to rapid disease development.
	Powdery Mildew Leveillula taurica	4-8	Begin applications soon after emergence or transplant and when environmental conditions are conductive to disease development. Continue applications on 5- to 7-day intervals or as needed. Use maximum label rates under conditions conductive to rapid disease development.
	Bacterial Spot Xanthomonas spp.	2 - 8	Begin applications soon after emergence or transplant and when environmental conditions are conducive to disease development. Continue applications on a 5- to 7-day interval or as needed. When conditions are conducive to rapid disease development, it is recommended that Serenade be used in a tank mix program with copper-based bactericides registered for control of bacterial spot at tabeled rates.
Wainut	Walnut Blight Xanthomonas campestris	6 - 8	Apply no later than pistillate bloom and repeat at 7- to 10-day intervals depending on orchard disease history and environmental conditions. Make applications in advance of rain for maximum protection. When conditions are conducive to rapid disease development, it is recommended that Serenade be used in a rotational program and tankmixed with a copper-based bactericide registered for control of walnut blight at labeled rates.

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Rate presented in lbs./acre unless otherwise noted



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Recommended Application Rates for Selected Greenhouse Crops (Seranade has a 0-Day PreHarvest Interval for all crops contained on this label)

Green-	Diseases	Rate	Use Recommendations
house Crops		gallons spray mix	
Broccoli	Pin Rot Altomaria/Xanthomonas complex	3-6	For suppression, begin applications when environmental conditions in the greenhouse are conducive to rapid disease development. Continue sprays at 7- day intervals. Thorough coverage is essential. Do not apply more than 6 lb. per acre per application.
Carrot*	Black Root Rot/Black Crow Alternaria spp.	2-4	Begin applications when environmental conditions in the greenhouse are conducive to rapid disease development. Continue sprays at 7- day intervals or as needed. Thorough coverage is essential. Do not apply more than 4 lb. per acro per application.
	Bacterial Leaf Blight Xanthomonas campastris	6 – 10	Begin applications when environmental conditions in the greenhouse are conducive to rapid disease development. Continue sprays at 7-day intervals or as needed. Use high rates and shorter intervals when conditions are conducive to rapid disease development. Thorough coverage is essential. Do not apply more than 10 lb. per acre per application.
Cucurbits	Powdery Mildew Erysiphe spp. Sphaerotheca spp.	4-8	Begin applications soon after emergence or transplant and continue on a 7-day interval or as needed. When environmental conditions in the greenhouse and plant stage are conducive to rapid disease development, it is recommended that Serenade be used in a rotational program with other registered fungicides. Continue sprays at 7- day intervals or as needed. Thorough coverage is essential. Do not apply more than 8 lb. per acre per application.
Leafy Vogetables (excapt Brassica)	Downy Mildew Bremia lactucae Peronospora spp. Powdery Mildew Erysiphe cichoracearum	3 - 6	For suppression, use as a preventative treatment in early crop stages in a tank mix or alternating spray program with other registered fungicides. Apply as a foliar spray and begin applications when conditions favor disease development. Continue sprays at 7- to 10- day intervals or as needed. Apply in sufficient water to ensure complete coverage of entire plant. When conditions are conductive to rapid disease development, it is recommended that Serenade be used in a rotational program with other registered fungicides for downy mildew and powdery mildew control.
	Sclerotinia head and leaf drop Sclerotinia spp.	4 – 6	For control of early Sclerotinia head and leaf drop: Apply at planting or immediately following planting but prior to crop emergence as a 4- to 8-inch seed line treatment. Make a second application 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. Additional applications should be made on 10- to 14-day intervals if conditions for disease development persist. Use higher rates under conditions conducive to moderate to severe disease pressure. Light irrigation after application to incorporate the product may improve disease control. Thorough coverage is essential. Do not apply more than 8 lb. per acre per application.
			OR
			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. Additional applications should be made on 10- to 14-day intervals if conditions for disease development persist. Use higher rates under conditions conducive to moderate to severe disease pressure. Light irrigation after application to incorporate the product may improve disease control. Thorough coverage is essential. Do not apply more than 6 lb. per acre per application.

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Green- house Crops	Diseases	Rate lbs./100 gallons spray mix	Use Recommendations
Onion*	Botrytis neck rot Botrytis spp. Botrytis Leaf Blight Botrytis squamosa Onion Purple Blotch Alternaria porti Onion Downy Mildew Peronospora destructor	6 – 10	Begin applications when environmental conditions in the greenhouse are conducive to rapid disease development. Continue sprays at 7-day intervals or as needed. When conditions in the greenhouse are conducive to rapid disease development, it is recommended that Serenade be used in a rotational program with other registered fungicides for Botrytis neck rot control. Thorough coverage is essential. Do not apply more than 10 lb. per acre per application.
Garlic*	Botrytis Neck Rot Botrytis spp.	6-10	Begin applications when environmental conditions in the greenhouse are conducive to rapid disease development. Continue sprays at 7-day intervals or as needed. Under moderate to severe disease pressure, it is recommended that Serenade be used in a rotational program with other registered fungicides for Botrytis neck rot control. Thorough coverage is essential. Do not apply more than 10 lb. per acre per application.
	Rust Puccinia pomi	2 – 6	For suppression, it is recommended that Serenade be used as a part of a preventative disease control program in alternation or tank mix with other registered fungicides. Continue applications as needed. Thorough coverage is essential. Do not apply more than 6 lb. per acre per application.
Pepper	Gray mold* Botrytis cinerea	4 – 8	Begin applications soon after emergence or transplant and continue on a 7-day interval or as needed. When environmental conditions in the greenhouse are conducive to rapid disease development, it is recommended that Serenade be used in a rotational program with other registered fungicides. Continue sprays at 7-day intervals or as needed. Thorough coverage is essential. Do not apply more than 8 lb. per acre per application.
	Powdery mildew Oidiopsis taurica	6 8	For suppression, begin applications soon after emergence or transplant and continue on a 7-day interval or as needed. When environmental conditions in the greenhouse are conducive to rapid disease development, it is recommended that Serenade be used in a rotational program with other registered fungicides. Continue sprays at 7-day intervals or as needed. Thorough coverage is essential. Do not apply more than 8 lb. per acre per application.

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Green- house Crops	Diseases	Rate lbs/100 gallons spray mix	Use Recommendations
Реррег	Bacterial Spot* Xanthomonas spp.	2-8	Begin applications soon after emergence or transplant and when environmental conditions are conducive to disease development. Continue applications on a 5- to 7-day interval or as needed. When conditions are conducive to rapid disease development, it is recommended that Serenade be used in a tank mix program with copper-based bactericides registered for control of bacterial spot at labeled rates. Continue sprays at 7-day intervals or as needed. Thorough coverage is essential. Do not apply more than 8 lb. per acre per application.
Tomato*	Early Blight Alternaria soleni Late Blight Phytophthora infestans	4-8	For suppression, begin applications when plants are 4- to 8-inches high. Repeat applications at 5- to 7-day intervals or as needed. It is recommended that Serenade be used in a rotational program with other registered fungicides for foliar disease control. Use shorter spray intervals under conditions conducive to rapid disease development. Thorough coverage is essential. Do not apply more than 8 lb. per acre per application.
	Powdery Mildew Leveillula taurica	4-8	Begin applications soon after emergence or transplant and when environmental conditions in the greenhouse are conducive to rapid disease development. Continue applications on 5- to 7- day intervals or as needed. Use maximum label rates under conditions conducive to rapid disease development. Thorough coverage is essential. Do not apply more than 8 lb. per acre per application.
	Bacterial Spot Xanthomonas spp.	2-8	Begin applications soon after emergence or transplant and when environmental conditions are conducive to disease development. Continue applications on a 5- to 7-day interval or as needed. When conditions are conducive to rapid disease development, it is recommended that Serenade be used in a tank mix program with copper-based bactericides registered for control of bacterial spot at labeled rates. Continue sprays at 7-day intervals or as needed. Thorough coverage is essential. Do not apply more than 8 lb. per acre per application.

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For Home and Garden Use

PRECAUTIONARY STATEMENTS—Home and Garden

HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water. Get medical attention if irritation persists. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals

ENVIRONMENTAL HAZARDS – Home and Garden

Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters or rinsate.

DIRECTIONS FOR USE -- Home and Garden

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

GENERAL USE INFORMATION - Home and Garden

Serenade[®] is a broad spectrum, preventative biofungicide recommended for the control or suppression of many important plant diseases. For control or suppression, use Serenade as a preventative treatment when seedlings first emerge, and alternate treatment of plants with other appropriately labeled registered fungicides or bactericides.

MIXING AND APPLICATION INSTRUCTIONS Home and Garden

MIXING:

For Broccoli, Garlic*(Rust), and Leafy Vegetables (except cole crops), mix 1/4 to 1/2 cup of Serenade per gallon of water.

For Snap Beans*, Carrot*, Cucurbits, Onions*/Garlic* (for Botrytis Neck Rot), Pepper* and Tomato*, Apples/Pears, Grapes, and Walnuts, mix 1/2 to 3/4 cup of Serenade per gallon of water.

*Not for use on these vegetables or citrus in California, except for Powdery Mildew suppression in Peppers.

Mix thoroughly and keep spray solution agitated during application.

Use maximum label use rates under conditions conducive to rapid disease development.

APPLICATION: Use 15 fluid ounces of spray solution per 100 square feet. Spray to ensure thorough coverage of the plant. For best results, treat prior to disease development or at the first sign of disease infection. Repeat at 7-day intervals or as needed.

Serenade can be applied up to and including the day of harvest.

DISEASES CONTROLLED OR SUPPRESSED BY SERENADE:

Bacterial Leaf Blight (Xanthomonas campestris)

Bacterial Spot (Xanthomonas spp.) - suppression

Bean Rust (Uromyces appendiculatus) - suppression

Black Root RovBlack Crown Rot (Alternaria spp.)

Botrytis Leaf Blight (Botrytis squamosa)

Botrytis Neck Rot (Batrytis spp.)

Downy Mildew** (Bremia lactucae, Personospora spp., and Plasmopara viticola) - suppression

Early Blight (Alternaria solani) - suppression

Fire Blight (Erwinia amylovora) - suppression

Gray Mold (Botrytis cinerea)

Greasy spot (Mycosphaerella citri) - suppression

Late Blight (Phytophthora infestans) - suppression

Onion Downy Mildew (Peronospora destructor)

Onion Purple Blotch (Alternaria porri)

Pin Rot (Alternaria/Xanthomonas complex) - suppression

Powdery Mildew (Uncinula necator, Erysiphe spp., Sphaerotheca spp., Oidiopsis taurica, Leveillula taurica, Podosphaera leucotricha)

Scab (Venturia spp.) - suppression

Scierotinia head and leaf drop (Scierotinia spp.)

Sour Rot

Walnut Blight (Xanthomonas campestris)

White Mold (Sclerotinia sclerotiorum) - suppression

** Not for use in California for control of downy mildew on grapes.

STORAGE AND DISPOSAL - Home and Garden

STORAGE: Store in a dry area inaccessible to children. Store in original containers only. Keep container closed when not in use.

CONTAINER DISPOSAL:

If empty: Do not reuse this container. Place in trash or offer for recycling if available.

If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.



CONDITIONS FOR SALE AND WARRANTY

AgraQuest warrants to those persons lawfully purchasing this product that at the time of the first sale of this product by Seiler that this product conformed to its description and was reasonably fit for the purposes stated on the label when used in accordance with Seller's directions. Buyers and users of this product assume the risk of any use contrary to such directions. EXCEPT AS PROVIDED ELSEWHERE IN WRITING CONTAINING AN EXPRESS REFERENCE TO THIS WARRANTY AND LIMITATION OF DAMAGES, SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OR GUARANTY, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY AND NO AGENT OF SELLER IS AUTHORIZED TO DO SO. To the extent permitted by state law, the Seller's liability for any breach of warranty shall not exceed the purchase price of the material as to which a claim is made.

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