69592-12

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02 February 2007Revision MASTER LABEL

Serenade® ASO

[Alternate Name : Serenade Biofungicide] An Aqueous Suspension Biofungicide

[Optional/Alternate Statement:

"NOP Logo: For Organic Production"]

[Optional/Alternate Statement: "NOP Logo: Can be

Used for Organic Production"

[USE INDOORS AND OUTDOORS] [USE IN FIELD APPLICATIONS, GREENHOUSES, NURSERIES, SHADE HOUSES, LANDSCAPES, INTERIORSCAPES, SEEDLING PRODUCTION SITES, FOREST SEEDLING PRODUCTION SITES.] [USE IN TANK MIXES OR ROTATIONAL ALTERNATING SPRAY PROGRAMS WITH OTHER CROF PROTECTION PRODUCTS [USE IN RESISTANT MANAGEMENT PROGRAMS] [USE GROUND, AERIAL, CHEMIGATION AND HAND APPLIED EQUIPMENT]

[FOR USE ON ORNAMENTALS, TREES, SHRUBS, TURF, LAWNS, SOD, GOLF COURSES (GREENS, TEES, FAIRWAYS AND ROUGHS), SEEDLINGS, CONIFERS]

[USE IN PRODUCTION OF CONIFERS FOR REFORESTATION]

ACTIVE INGREDIENT

QST 713 strain of Bacillus subtilis 1.34%

Contains a minimum of 1 x 10° CFU/gA C C

EPA Reg. No. 69592-12

EPA Est. No.:

, 2 69592-67545-66728-MEX-I AZ-I GA-2

[Superscript corresponds to last digit of lot number stamped on container]

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U.S. Patent Nos. 6,060,051, 6,103,228, 6,291,426, and 6,417,163 on QST 713 strain of Bacillus subtilis

Net contents: [16 fluid ounces OR 20 fluid ounces OR 24 fluid ounces OR 32 fluid ounces OR 1.0 gallon, OR 2.5 gallons OR 3 gallons OR 5 gallons OR 30 gallons OR 110 gallons OR 250 gallons)

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID -Agricultural Use

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 doctor or poison control center for further treatment advice. Have the product label with you when calling a doctor or poison control center.

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[For smaller container sizes:]

[See attached booklet for First Aid Statements.] [Peel back tab for First Aid and Precautionary Statements, Directions for Use, and Storage & Disposal Instructions.]

PRECAUTIONARY STATEMENTS-Agricultural Use

HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Harmful if inhaled. Avoid breathing spray mist. Remove contaminated clothing and wash clothing before use.

PERSONAL PROTECTIVE EOUIPMENT (PPE)

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

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

[OPTIONAL STATEMENT:

ENGINEERING CONTROLS: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

SER SAFETY RECOMMENDATIONS

sers should:

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

kemove clothing/PPE immediately if pesticides get inside. Then wash thoroughly and put on clean clothing.

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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. Do not apply when weather conditions favor drift or runoff from treated areas.

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 State 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.

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Serenade® ASO Master Laber For emergencies such as leaks or spills, call 24-hour toll-free CHEMTREC hotline at 1 800 424,9300.

AGRICULTURE 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.

Exception: if the product is soil injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or green houses.

Post harvest treatment of commodities do not fall within the scope of the WPS. PPE for applicators and handlers of treated commodities; waterproof gloves. Keep unprotected persons from handling commodities until sprays have dried.

STORAGE AND DISPOSAL - 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 1.0-gallon, 2.5-gallon, 3-gallon, 5-gallon, or 30-gallon plastic containers -- Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. For 110-gallon or larger returnable mini-bulk containers - Return empty container for reuse.

GENERAL USE INFORMATION – Agricultural Use

Serenade® ASO is a broad spectrum, preventative biofungicide for the control or suppression of many Serenade ASO is an ideal important plant diseases. resistance management tool given its unique, multiple modes of action. It may be applied as a foliar spray alone, in alternating spray programs or in tank mixes with other registered crop protection products. For maximum effectiveness, apply Serenade ASO prior to or in the early stages of disease development. When conditions are conducive to heavy disease pressure, use Serenade ASO in a rotational program with other registered fungicides. Serenade ASO may be applied with spray equipment commonly used for making ground or aerial applications and sprinkler/irrigation systems commonly used for chemigation. Serenade ASO can be used for organic production.

[OPTIONAL STATEMENT: Serenade ASO is most effectively used in a preventive disease management program. For improved performance use Serenade ASO in a tank-mix or rotational program with other registered fungicides. When using Serenade ASO alone for the first time a rate of 4 quarts per acre is recommended. Depending upon disease pressure the rate can be increased and/or spray intervals decreased. To enhance performance it is recommended that a surfactant [such as Biotune], known to be safe to the target crop, be added to the spray tank to improve penetration and coverage of above-ground portions of the plant.]

INTEGRATED PEST MANAGEMENT (IPM)

For disease resistance management, Serenade ASO can be integrated 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.

Be sure use of this product conforms to resistance management strategies, which may include rotating and/or tank-mixing with other products with different modes of action.

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USE RATE DETERMINATION Agricultural Use

Carefully read and follow all label directions, use rates and restrictions. Apply Serenade ASO prior to or in the early stages of disease development. Use maximum label rates and shortened spray intervals for conditions conducive to rapid disease development. For proper application, determine the number of acres to be treated, the recommended label use rate and select appropriate application volume 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 ASO can be applied up to and including the day of harvest.

APPLICATION INSTRUCTIONS - Agricultural Use

GENERAL: Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower/treatment coordinator are responsible for considering all of these factors when making decisions. Where states have more stringent regulations, they should be observed. Note: This section is advisory in nature and does not supersede the mandatory label requirements.

GROUND: Be sure to maintain agitation during mixing and application to assure uniform product suspension. Thorough coverage of all foliage is essential for effective disease control. Serenade ASO can be applied in commonly used ground equipment, hose-end, pressurized, greenhouse, and hand-held sprayers. 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: This product can be applied by aerial application. Refer to the Aerial Drift Reduction Advisory Information section of this label for general directions and precautions. Use the application rate indicated for the appropriate crop in sufficient water to achieve thorough coverage, or a minimum of 3 gallons of water per acre.

CHEMIGATION: This product can be applied through sprinkler or drip type irrigation systems , including a center pivot, lateral move, end tow, side wheel roll, traveler, solid set, and hand move. Refer to the Chemigation Directions for Use section of this label for general directions and precautions. Use the application rate indicated for the appropriate crop as specified in the Use Recommendations section of this label.

MIXING INSTRUCTIONS – Agricultural Use

MIXING: Serenade ASO must be diluted with water for spray applications and may be used in spray equipment commonly used for making ground applications. Partially

fill the spray tank with clean water and begin

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agitation. Add the specified amount of Serenade ASO to the tank. Finish filling the tank to the desired volume to obtain the proper spray concentration. It is critical that the spray solution be agitated during mixing and application to assure a uniform suspension. Do not allow spray mixture to stand overnight or for prolonged periods. [Optional Statement: Maintain a spray solution pH between 4.5 and 8.5].

Screnade ASO 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.

COMPATIBILITY: Do not combine Serenade ASO in the spray tank with pesticides, surfactants or fertilizers if there has been no previous experience or use of the combination to show it is physically compatible, effective and noninjurious under your use conditions.

Serenade ASO is compatible with many commonly used pesticides, fertilizers, adjuvants and surfactants but has not been fully evaluated with all of these. To ensure compatibility of tank-mix combinations they should be evaluated prior to use, as follows: Using a suitable container add proportional amounts of product to water. Add wettable powders first, followed by water dispersible granules, then by liquid flowables and lastly, emulsifiable concentrates. Mix thoroughly and let stand for at least five minutes. If the combination stays mixed or can be remixed, it is physically compatible. 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. JOPTIONAL STATEMENT: Do not use with penetrant-type adjuvants.

ADDITIVES: Screnade ASO is compatible with a wide range of additives. Since the product is primarily a protectant, thorough coverage of all above-ground plant parts is required for effective product performance. To improve plant surface coverage, add a non-phytotoxic adjuvant [such as BiotuneTM] to spray tank.

CHEMIGATION DIRECTIONS FOR USE

General Requirements:

- 1) Apply this product only through sprinkler or drip type irrigation systems including center pivot, lateral move, end tow, side wheel roll, traveler, solid set or hand move systems. Do not apply this product through any other type of irrigation system.
- 2) Crop injury or lack of effectiveness can result from nonuniform distribution of treated water.
- 3) Ensure that the irrigation system used is properly calibrated and if you have questions, call the State Extension Service specialists or the equipment manufacturer or other experts.
- 4) Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a

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public water system unless the pesticide label-

prescribed safety devices for public water systems are in place.

5) A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make any necessary adjustments should the need arise.

Equipment Requirements:

- Public water supply means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of 25 individuals daily at least 60 days throughout the year.
- 2) Chemigation systems connected to the public water systems must contain a functional, reduced-pressure zone (RPZ), backflow preventer or the functional equivalent in the water supply upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top of the overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- 3) The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.
- 4) The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back towards the injection pump.
- 5) The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 6) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 7) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 8) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- 9) Do not apply when wind speed favors drift beyond the area intended for treatment

Application Instructions:

1) Remove scale, pesticide residues, and other foreign matter from the chemical supply tank and entire injector

system. Flush with clean water. Failure to provide a clean tank, void of scale or residues may cause product to lose effectiveness or strength.

2) Do not combine Serenade ASO with pesticides, surfactants or fertilizers for application through chemigation equipment unless prior experience has shown the combination physically compatible, effective and non-injurious under conditions of use. Serenade ASO has <u>not</u> been fully evaluated for compatibility with all adjuvants or surfactants. It is advisable to conduct a spray compatibility test if mixture with adjuvants or surfactants is planned.

Center-pivot, Lateral Move, End Tow, and Traveler Irrigation Equipment (Use only with electric or oil hydraulic drive systems which provide a uniform water distribution):

- Determine size of area to be treated.
- Determine the time required to apply no more than 1/4 inch of water (6,750 gallons water per acre) over the area to be treated when the system and injection equipment are operated at normal pressures recommended by the equipment manufacturer. Run system at 80 to 95% of manufacturer's rated capacity.
- Using only water, determine the injection pump output when operated at normal line pressure.
- Determine the amount of Serenade ASO fungicide required to treat area.
- Add required amount of Serenade ASO fungicide and sufficient water to meet the injection time requirements of the solution tank.
- Maintain constant solution tank agitation during the injection period.
- Stop injection equipment after treatment is completed. Continue to operate the system until Serenade ASO fungicide solution has cleared the sprinkler head.

Solid-set, Side (wheel) Roll, and Hand Move Irrigation Equipment:

- Determine acreage covered by sprinkler.
- Fill injector solution tank with water and adjust flow rate to use contents over a 10- to 30-minute interval.
- Determine the amount of Serenade ASO fungicide required to treat area.
- Add the required amount of Serenade ASO fungicide into the same quantity of water used to calibrate the injection equipment.
- Maintain constant solution tank agitation during the injection period.
- Operate system at normal pressures recommended by the manufacturer of the injection equipment and used for the time interval established during calibration.
- Inject Serenade ASO fungicide at the end of the irrigation cycle or as a separate application to maximize foliar fungicide retention.
- Stop injection equipment after treatment is completed. Continue to operate the system until Serenade ASO fungicide solution has cleared the last sprinkler head.

AERIAL DRIFT REDUCTION ADVISORY INFORMATION

General: Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. Where states have more stringent regulations, they should be observed. Note: This section is advisory in nature and does not supersede the mandatory label requirements.

INFORMATION ON DROPLET SIZE: The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

CONTROLLING DROPLET SIZE: Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets. Pressure -Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When high flow rates are needed, use higher flow rate nozzles instead of increasing pressure. # of Nozzles - Use the minimum number of nozzles that provide uniform coverage. Nozzle Orientation -Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential. Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

BOOM WIDTH: For aerial applications, the boom width must not exceed 75% of the wingspan or 90% of the rotary blade. Use upwind swath displacement and apply only when wind speed is 3 -- 10 mph as measured by an anemometer. Use medium or coarser spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles. If application includes a no-spray zone, do not release spray at a height greater than 10 feet above the ground or the crop canopy.

APPLICATION HEIGHT: Do not make application at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

SWATH ADJUSTMENT: When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

WIND: Drift potential is lowest between wind speeds of 2 - 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS: Do not apply during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small, suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SENSITIVE AREAS: The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas). Do not allow spray to drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreation areas, nontarget crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals.

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 Seller 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

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WARRANTY OF FITNESS OR OF MERCHANTABILITY AND NO AGENT OF SELLER IS AUTHORIZED TO DO SO. Except to the extent prohibited by applicable law, AgraQuest offers this product with the following conditions: 1) buyers and users of this product assume the risk of any storage, handling or use contrary to AgraQuest's label and directions and 2) AgraQuest's liability shall in no case exceed the purchase price of the applicable AgraQuest product.

Serenade[®] ASO Master La

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Serenade® ASO Master Lau

Recommended Application Rates for Selected Crops – Agricultural Use

(Serenade ASO has a 0-Day PreHarvest 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.

Crops	Disease	Rate Ots./acre	Application Instructions
Artichoke	Powdery Mildew Leveillula taurica, Erysiphe cichoracearum Gray Mold Botrytis spp. Bacterial Crown Rot Erwinia chrysanthemi	1-6	Begin application when conditions are conducive to disease development. Repeat on 7 to 10 day intervals or as needed. Serenade ASO may be applied up to and including the day of harvest.
Asparagus	Rust Puccinia asparagi Botrytis Blight Botrytis cinerea	1- 6	Begin application soon after emergence and when conditions are conducive to disease development. Repeat on 7 to 10 day intervals or as needed. Serenade ASO may be applied up to and including the day of harvest.
Bananas Plantains	Sigatoka Mycosphaerella spp.	1-6	Begin application when leaves first appear and repeat on 7 to 21 day intervals or as needed. The addition of an approved emulsifiable oil to spray solutions will improve performance.
Berries Blueberries Blackberry Raspberry Loganberry Huckleberry Cranberry Gooseberry Elderberry Currant Caneberry Bushberry and other berry crops	Mummy Berry Monilinia vaccinii- corymbosi Anthracnose Fruit Rot Colletotrichum gloeosporiodes Colletotrichum acutatum Botrytis Blight Botrytis cinerea Leaf Rust Pucciniastrum vaccinii Powdery Mildew Microsphaera alni Sooty Mold Misc. fungi Alternaria Fruit Rot Alternaria tenuissima Bacterial Canker Pseudomonas spp. Downy Mildew Peronospora sparsa Phomopsis	1- 6	 Mummy Berry - For suppression, begin application at the bud break stage of development and repeat on a 7 to 10 day intervals or as needed. For improved performance, use Serenade 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. For all other diseases – Begin application prior to disease development and repeat on 7 to 10 day intervals or as needed. For improved performance of Serenade ASO, add a surfactant [such as Biotune] to the spray tank to improve coverage. Cranberries – Make application to non-flooded fields only. Serenade ASO may be applied to fruit up to and including the day of harvest.

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Crops	Disease	Rate Qts./acre	Application Instructions	
Brassica vegetables (Cole Crops) Broccoli Cabbage Cauliflower Brussels Sprouts Collards Kale Mustard Greens Kohlrabi and other brassica crops	Pin Rot Complex Alternaria/Xanthomonas Bacterial Leaf Spot Pseudomonas syringae Bacterial Soft Rot Erwinia / Pseudomonas Black Rot Xanthomonas campestris Xanthomonas Leaf Spot Xanthomonas campestris Alternaria Leaf Spot Alternaria spp. Anthracnose Colletotrichum higginsianum Cercospora Leaf Spot Cercospora brassicaicola Downy Mildew Peronospora parasitica Peronospora spp. Powdery Mildew Erysiphe polygoni Southern Blight Sclerotium rolfsii	1-6	 Pin Rot - For suppression, begin application when econditions are conducive to disease development ar 10 day intervals or as needed. For improved perfor Serenade in a tank mix or rotational program with efungicides for pin rot control. For all other diseases - Begin application soon a transplant and when conditions are condudevelopment. Repeat on 7 to 10 day intervals or as 	environmental ad repeat on 7 to mance, use other registered fter emergence or cive to disease s needed.
Bulb Vegetables Onion Garlic Shallots and other bulb vegetables	Botrytis Neck Rot Botrytis spp. Botrytis Leaf Blight Botrytis squamosa Onion Purple Blotch Alternaria porri Onion Downy Mildew Peronospora destructor Downy Mildew Peronospora spp. Powdery Mildew Erysiphe spp. White Rot Sclerotium cepivorum	1-6	Begin applications when environmental conditions disease development and repeat sprays on 7 to 10 needed. Apply in sufficient water to provide comp plants. When conditions are conducive to rapid dis use Serenade ASO in a rotational program with oth fungicides for Botrytis neck rot control.	are conducive to day intervals or as lete coverage of ease development, er registered
	Rust Puccinia porri	1-6	For suppression, begin application when conditions disease development and repeat on 7 to 10 day inter For improved performance, use Serenade ASO in a rotational program with other registered fungicides	are conducive to rvals or as needed. tank mix or for rust control.

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Crops	Disease	Rate Qts./acre	Application Instructions	
Cereal Grains Barley Corn Millets Oat Rice Rye Sorghum Triticale Wheat Silage Crops and other cereal grain crops	Powdery Mildew Erysiphe graminis Rust Puccinia spp. Blast Pyricularia orysae Sheath Blight Thanatephorus kernel Thanatephorus cucumeris, (Anamorph: Rhizoctonia solani) Sheath Spot Rhizoctonia oryzae Smut Tilletia barclayana Bacterial Blight and Streak Xanthomonas spp Stem Rot Sclerotium oryzae Magnaporthe spp Brown Rot, Leaf Spots and Smuts Cerccospora spp Entyloma spp	1-6	Begin applications when environmental conditions and are conducive to disease development. Repeat on <u>7 to</u> intervals or as needed. Use higher rates and shorter app intervals under heavy disease pressure.	plant stage <u>10</u> day plication
Citrus Orange Grapefruit	Dreschlera spp Cochliobolus spp Ceratohasidium spp Greasy spot Mycosphaerella citri Post Bloom Fruit Drop Colletotrichum acutatum	1-6	Greasy spot - For suppression, begin applications at first flush, and repeat with subsequent new flushes. When co conducive to rapid disease development, Serenade mus tank mix program with other registered products, such	st new foliar onditions are at be used in a as spray oil or
Lemon Tangerine Tangelo Pummelo and other citrus crops	Scab Elsinoe fawcetti Melanose Diaporthe citri Alternaria Leaf Spot Alternaria alternata Bacterial Blast Pseudomonas syringae		copper- based fungicides, at labeled rates. Post bloom fruit drop – For suppression, begin applicat bloom and when conditions are conducive to disease de Repeat on a <u>7 to 10</u> day interval or as needed. Utilize t spray interval between applications if warm, wet condit Citrus scab – For suppression, begin applications at firs flush and repeat at petal fall and at ½ inch diameter fruit	tions at early evelopment. he shorter tions persist. st new foliar it.
			 Melanose – For suppression, begin applications at petal repeat on a 7-10 day interval. Alternaria Leaf Spot – Begin applications when environ conditions and plant stage are conducive to disease dev Repeat on 7 to 10 day intervals or as needed. Bacterial Blast – Begin applications when environment are conducive to disease development. Repeat on 7 to 10 day intervals or as needed. For improved performance on post bloom fruit day melanose, use Serenade in a tank mix or rotational 	l fall and nmental elopment. al conditions rop, scab and program with

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Crops	Disease	Rate Ots./acre	Application Instructions
Coffee	Coffee Berry Disease Colletotrichum coffeanum Bacterial Blight Pseudomanas syringae	1-6	Begin applications when environmental conditions are conducive to disease development. Continue applications on $\frac{7 \text{ to } 10}{10}$ day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.
		i	For improved performance use Serenade ASO in a tank mix or rotational program with other registered fungicides
Corn Sweet Corn Popcorn Seed Corn Silage Corn Field Corn and other corn crops	Common rust Puccinia sorghi Northern Corn Leaf Blight Exserohilum turcicum Helminthosporium turcium Southern Corn Leaf Blight Bipolaris maydis Helminthosporium maydi Cochliobolus heterostrophus	1-6	Begin applications when environmental conditions are conducive to disease development. Continue applications on $7 \text{ to } 10$ day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.
Cucurbits Cucumber Cantaloupe Melon Muskmelon Squash Watermelon and other cucurbit crops	Powdery Mildew Erysiphe spp. Sphaerotheca spp. Gummy Stem Blight Didymella bryoniae Phoma cucurbitacearum Angular Leaf Spot Pseudomonas syringae Anthracnose Colletotrichum lagenarium Downy Mildew Pseudoperonospora cubensis Bacterial Fruit Blotch Acidovorax avenae	1-6	Begin applications soon after emergence or transplant and continue on a 7-10 day interval or as needed. When environmental conditions and plant stage are conducive to rapid disease development, use Serenade ASO in a rotational program with other registered fungicides.
Fruiting Vegetables Pepper Tomato Eggplant	Bacterial Spot Xanthomonas spp. Target Spot Corynespora casslicola	1-6	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, for improved control, use Serenade ASO in a tank mix program with copper-based bactericides registered for control of bacterial spot at labeled rates.
Ground Cherry Tomatillo Okra and other fruiting vegetables	Bacterial Speck Pseudomonas syringae pv tomato	1-6	Begin application 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. Use higher rates when conditions are conducive to rapid disease development.

Crops	Disease	Rate Qts./acre	Application Instructions
Fruiting Vegetables Pepper Tomato Eggplant Ground	Early Blight Alternaria solani Late Blight suppression Phytophthora infestans	1- 6	For suppression, begin applications when plants are 4- to 6-inches high. Repeat applications at 5- to 7-day intervals or as needed. For improved performance, use Serenade ASO in a tank mix or rotational program with other registered fungicides for late blight control. Use shorter spray intervals under conditions conducive to rapid disease development.
	Powdery Mildew Leveillula taurica Oidiopsis taurica Erysiphe spp. Sphaerotheca spp. Downy Mildew Pseudoperonoospera cubensis	1-6	For suppression, begin application soon after emergence or transplant when environmental conditions are conducive to disease development. Repeat on a 7 to 10 day interval or as needed. Use maximum label rates under conditions conducive to rapid disease development. For improved performance, use Serenade ASO in a tank mix or rotational program with other registered fungicides.
Cherry Tomatillo Okra and other	Gray Mold Botrytis cinerea	1- 6	Begin applications soon after emergence or transplant and repeat on a 7-10 day interval or as needed. When conditions are conducive to rapid disease development, use Serenade ASO in a rotational program with other registered fungicides.
rruiting vegetables	Buck-eye Rot Phytophthora parasitica Anthracnose Colletotrichum candidum	1-6	Begin application soon after emergence or transplant and continue on a 7 to 10 day interval or as needed. For improved performance of Serenade ASO add a surfactant [such as Biotune] to the spray tank to improve coverage.
	Bacterial Canker Clavibacter michiganensis	1- 6	Begin applications when environmental conditions are conducive to disease development. Repeat on 7 to 10 day intervals or as needed.
Grape	Gray Mold Botrytis cinerea Sour Rot [a complex of pathogens Aspergillus niger, Alternaria tenuis, Botrytis cinerea, Cladosporium herbarum, Rhizopus arrhizus, Penicillium sp., and others]	1- 6	Begin applications at bloom, before bunch closure, at verasion and preharvest, up to day of harvest if necessary. Apply in sufficient water to provide full coverage. Serenade ASO may be applied to fruit up to and including the day of harvest.
	Powdery Mildew Uncinula necator	1- 6	Begin application when new shoots are $\frac{1}{2}$ to $\frac{1}{2}$ 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 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	1- 6	For suppression, apply at 10-inch shoot, then at $7 - 10$ day intervals until bunch closure (berry touch). For improved performance, use Serenade in a tank mix or rotational program with other registered fungicides for downy mildew control.
	Phomopsis Phomopsis viticola	1-6	Begin applications when shoots are $\frac{1}{2}$ to 1 inch long and repeat when shoots are 6-8 inches long
	Black Rot Guignardia bidwelli	1-6	Begin application when new shoots are 4 to 6 inches in length and repeat on $7 - 10$ day intervals throughout the season until the berries start to change color.
	Eutypha Eutypha lata	2 - 5%	Apply solution to pruning wounds. Sanitation is critical. All wood from infected plants must be removed from the vineyard and destroyed (either buried or burned).

Crops	Disease	Rate Qts./acre	Application Instructions
Herbs/ Spices	Bacterial Blight Pseudomonas syringae Anthracnose Colletotricum spp. Alternaria Leaf Blight Alternaria spp. Botrytis Botrytis spp.	1-6	Begin application when environmental conditions are conducive to disease development. Repeat on <u>7 to 10</u> day interval or as needed.
Нор	Powdery Mildew Sphaerotheca macularis Downy Mildew Peronospora spp.	1-6 qts/100 gal	Use the higher rates when moderate to high disease pressure is present or expected. Begin applications when environmental conditions are conducive to rapid disease development. Continue sprays <u>at 7 day</u> intervals or as needed. Apply at a rate of 1-6 qts. per 100 gallons of water using ground equipment. Minimum spray volume recommendations for hop growth stages are as follows: Emergence to training: Use 1-6 qts. of product per 100 gallons of 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 touch: Use 1-6 qts. of product per 100 gallons of water. Apply using a minimum spray volume to achieve complete spray coverage. Training to wire touch: Use 1-6 qts. 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 1-6 qts. 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 qts. of product per acre per application. Apply adequate spray volume to achieve complete spray coverage. Use the higher rates when moderate to high disease pressure is present or expected.

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Crops	Disease	Rate Qts./acre	Application Instructions
Leafy Dow Vegetables Bre Per Lettuce Celery Powo Spinach Ery Parsley Radicchio Pink and other Scle leafy vegetable Anth crops Co Bacte Xanth vitian Bacte	Downy Mildew Bremia lactucae Peronospora spp. Powdery Mildew Erysiphe cichoracearum Pink Rot Sclerotinia sclerotiorum Anthracnose-suppression Colletotrichum spp. Bacterial Leaf Spot Xanthomonas campestris pv. vitians Bacterial Blight Xanthomonas campestris	1- 6	 Downy mildew / powdery mildew - For suppression, begin application when conditions are conducive to disease development and repeat on 7 to 10 day intervals or as needed. Apply in sufficient water to ensure complete coverage of entire plant. For improved performance or as a preventative treatment in early crop stages use Serenade ASO in a tank mix or rotational program with other registered fungicides. Pink rot Begin application approximately 8 weeks before harvest and repeat on a 14-day day interval. Apply Serenade ASO 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 may improve disease control. Anthracnose for suppression - Begin application prior to disease development when environmental conditions and plant stage are conducive to rapid disease development and repeat on a day 7 to 10 day interval or as needed. Use higher rates and shorter application intervals under heavy disease pressure.
	Sclerotinia Head and Leaf Drop Sclerotinia spp.	1-6	Repeat on 7 to 10 day intervals or as needed. 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 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. Repeat applications on <u>10 to 14</u> 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 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 <u>10 to 14</u> 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.

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Crops	Disease	Rate Qts./acre	Application Instructions
Legumes/ Vegetables (succulent and dried beans and peas)	Rust Uromyces appendiculatus	l- 6	For suppression, begin application soon after emergence or transplant and when conditions are conducive to disease development. Repeat on $\frac{7 \text{ to } 10}{10}$ day intervals or as needed. When conditions are conducive to disease development, for improved performance, use Serenade ASO in a tank mix or rotational program with other registered fungicides.
Bean Green beans Snap beans Shell beans Soybeans Dry Beans	Rust Puccinia spp Bacterial Pustule Xanthamonous spp. Downy Mildew Peronospora mansherica Powdery Mildew Erysiphe spp	1-6	Begin applications when environmental conditions and plant stage are conducive to disease development. Repeat on <u>7 to 10 day</u> intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.
beans Lima beans Peas Chick peas Split peas Lentils	Asian Soybean Rust Phakospora pachyrhizi	1-6	Use as part of a program with other fungicides labeled for Asian Soybean Rust. Begin applications when environmental conditions are conducive to disease development. Continue at 7 to 14 day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.
and other legume/ vegetable crops	Aphonomyces spp	1-6	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.
	White Mold (Sclertinia Stem Rot) Sclerotinia sclerotiorum Gray Mold (Botrytis Blight) Botrytis spp	1-6	Begin application soon after emergence or transplant and when conditions are conducive to disease development. Repeat on $7 \text{ to } 10$ day intervals or as needed. When conditions are conducive to rapid disease development use Serenade ASO in a rotational program with other registered fungicides
Mint And other herb/spices	Rust Puccinia menthae Powdery Mildew Erysiphe spp Downy Mildew Peronospora spp.	1-6	Begin application soon after emergence when conditions are conducive to disease development. Repeat on $7 \text{ to } 10$ day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.
Oil Seed Crops Canola Castor Coconut Cotton Flax Oil Palm Olive Peanut Rapeseed Safflower Sesame Sunflower Soybeans and other	Bacterial Speck Pseudomonas syringe pv. glycinea Brown Spot Septoria glycines Pod and Stem Blight Diaporthe phaseolorum var. sojae Phomopsis longicola Downy Mildew Peronospora mansherica Rust White Mold (Sclerotinia Stem Rot) Sclerotinia sclerotiorum Bacterial Pustule Xanthamonous spp.	1-6	Begin application soon after emergence and when conditions are conducive to disease development. Repeat on $7 \text{ to } 10$ day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.
oilseed crops	Asian Soybean Rust Phakospora pachyrhizi	1-6	Use as part of a program with other fungicides labeled for Asian Soybean Rust. Begin applications when environmental conditos are conducive to disease development. Continue at 7 to 14 day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.

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Crops	Disease	Rate Qts./acre	Application Instructions	
Olive	Olive Knot Pseudomonas savastanoi Leaf Spot Cercospora cladosporioides	1- 6	Apply before fall rains and again during dormancy ligrowth. For improved control, under conditions conductive disease pressure, use Serenade ASO in a tank-mix program with a copper-based bactericide registered for olive knot. In cool, wet areas, apply preventive treatm trees after harvest but before winter rains begin and again wet, rainy weather persists.	ocfore spring cive to heavy or rotational or control of ients to olive in in spring if
Peanuts	Early Leaf Spot Cercospera spp. Cercospera arachidicola Late Leaf Spot Cercosporidium personatum Rust Puccinia arachidis White Mold Sclerotinia sclerotiorum Web Blotch Phoma arachidicola	l- 6	Begin applications when environmental conditions are rapid disease development. Repeat applications at <u>14-c</u> or as needed. For improved control, use Serenade ASO program with copper-based fungicides registered for peanut leaf spot at labeled rates. Peanut hay may be fed	conducive to lay intervals in a tank mix or control of to livestock.

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Crops	Disease	Rate Qts./acre	Application Instructions
Pome Fruit Apple Crabapple Pear Quince Mayhaw and other pome fruit	Fire Blight Erwinia amylovora	1-6	For suppression begin application 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, use Serenade ASO 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. After petal fall, continue applications on a 7-day interval while environmental conditions favor disease development.
			Apply in sufficient water to provide full coverage. For improved performance, use Serenade ASO 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 ASO 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 ASO.
	Brooks Spot Mycosphaerella pomi Cedar Apple Rust Gymnosporangium juniperi-virginianae Flyspeck Schizothyrium pomi Sooty Blotch Gloeodes pomigena Bot Rot Botryosphaeria dothidea Bitter Rot Colletotrichum spp. Bull's Eye Rot Neofabraea spp.	1-6	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 higher application rates and shorter spray intervals when conditions are conducive to rapid disease development or heavy disease pressure. For improved performance of Serenade ASO add a surfactant [such as Biotune® Adjuvant], known to be safe to the target crop, to the spray tank to improve coverage and wetting of plant surfaces. Serenade may be applied up to and including the day of harvest (0-day PHI).
	Scab <i>Venturia</i> spp.	1- 6	For suppression, begin applications at green tip or when environmental conditions become favorable for primary scab development and repeat on a <u>7 to 10</u> day interval or as needed. When environmental conditions are conducive to rapid disease development, for improved performance use Serenade ASO in a tank mix or rotational program with other registered fungicides for scab control.
	Powdery Mildew Podosphaera leucotricha	1-6	Begin application at tight cluster, or sooner, if conditions are conducive to disease development. Repeat applications through the second cover spray on $7 \text{ to } 10$ 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.

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Crops	Disease	Rate Qts./acre	Application Instructions
Root / Tuber and Corm Vegetables Carrot Potato Sweet Potato Cassava Beets Ginger Horseradish Radish Ginseng Turnip and other root/ tuber and corm crops	Black Rot/Black Crown Rot Alternaria spp. Alternaria Leaf Blight Alternaria dauci Bacterial Leaf Spot Xanthomonas campestris pv. carotae	1- 6	Begin applications soon after emergence or transplant and when conditions are conducive to rapid disease development. Repeat on a $7 to 10$ day interval 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.
	Bacterial Leaf Blight Xanthomonas campestris Downy Mildew Peronospora spp. Powdery Mildew Erysiphe spp. White Mold Sclerotinia sclerotiorum Gray Mold Botrytis spp.	1- 6	Begin application soon after emergence or transplant and when conditions are conducive to disease development. Repeat on a $\frac{7 \text{ to}}{10}$ day interval 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.
	Early Blight Alternaria solani Late Blight suppression Phytophthora infestans	1~ 6	For suppression, begin application soon after emergence when conditions are conducive to disease development. Repeat on a 5 to 7 day interval or as needed. For improved performance, use Serenade in a tank mix or rotational program with other registered fungicides for late blight control.
Roses, Field	Powdery Mildew Sphaerotheca spp. Rust Puccinia spp	1-6	Begin applications when environmental conditions and plant stage are conducive to disease development. Continue applications on <u>7 to 14</u> day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.

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Crops	Disease	Rate Qts./acre	Application Instructions
Stone Fruit Apricol Cherry Nectarine Peach Plum Prune And other stone fruit crops	Anthracnose suppression Colletotrichum spp. Powdery Mildew Sphaerotheca parnnosa Podosphaera clandestine Podosphaera spp Rusty Spot Podosphaera leucotricha Bacterial Canker Pseudomonas spp. Alternaria Spot / Fruit Rot Alternaria alternata Scab Cladosporium carpophilum Brown Rot Blossom Blight Monilinia laxa Fruit Brown Rot - suppression Monilinia fruticola Gray mold Botrytis cinerea Shot Hole suppression Wilsonomyces carpophilus Xanthomonas pruni Bhumeriella gaapi Cercospora spp. Bacterial Leaf Spot/ Bacterial Spot	QtsJacre	 Brown Rot Blossom Blight - Begin application at early bloom and repeat through petal fall on a 7 day interval or as needed. Scab - Begin application at petal fall and repeat on a 7 to 10 day interval or as needed. Bacterial Blight - Apply post harvest before fall rains and again during dormancy before spring growth. Powdery Mildew - For suppression, begin application at popcorn stage and repeat on a 7 day interval or as needed. For improved performance, use Serenade ASO in a tank mix or rotational program with other registered fungicides for powdery mildew control. For all other diseases - Begin application prior to disease development when environmental conditions and plant stage are conducive to rapid disease development and repeat on a day 7 to 10 day interval or as needed. Use higher rates and shorter application intervals under heavy disease pressure. For improved performance, use Serenade ASO in a tank mix or rotational program with other registered fungicides. 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
	Bacterial Spot Xunthomonas arboricola		harvest. During periods of rapid disease development and frequent infection periods, use Serenade ASO in a program with other registered antibiotics and/or copper bactericides. For the improved performance of Serenade ASO, add a surfactant [such as Biotune] to the spray tank to improve coverage. Serenade ASO may be applied to fruit up to and including the day of harvest.
Strawherry Powc Spha Ery Anth Cola Botry Botry Botry Gray Botr Angu Xan	Powdery Mildew Sphaerotheca macularis Erysiphe spp. Anthracnose Colletotrichum acutatum Botrytis Botrytis cinerea Gray Mold Botrytis spp. Angular Leaf Spot Xanthomonas fragariae	I- 6	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 higher rates and shorter application intervals under heavy disease pressure. For improved performance, use Serenade ASO in a tank mix or rotational program with other registered fungicides for powdery mildew and botrytis control.
			shorter application intervals under heavy disease pressure. For improved performance, use Serenade ASO in a tank mix or rotational program with other registered fungicides. Angular Leaf Spot - Begin applications when environmental
			conditions are conducive to disease development. Continue applications on <u>7 to 10</u> day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure. For improved performance, use Serenade ASO in a tank mix or rotational program with other registered fungicides. Thorough coverage is essential.

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Crops	Disease	Rate Qts./acre	Application Instructions	
Sugar Beets	Powdery Mildew Erysiphe betae Erysiphe polygoni Leaf Spot Cercospora beticola Ramularia Ramularia spp Rust Uromyces betae	1-6	Begin applications when environmental conditions a to disease development. Continue applications on intervals or as needed. Use higher rates and shorte intervals under heavy disease pressure.	re conducive <u>7 to 10</u> day er application
Tobacco	Blue Mold Peronospora hyoscyami	1-6	Begin applications when conditions are conducived development. Continue applications on $\frac{7 \text{ to } 10}{10}$ day needed.	e to disease intervals or as
Tree Nuts Almond Pistachio Pecan Walnut Filberts Chestnut Cashew Beechnut Butternut Macadamia And other tree nut crops	Walnut Blight Xanthomonas campestris Alternaria Leaf Spot Alternaria alternata Anthracnose- suppression Colletotrichum acutatum Bacterial Canker- Pseudomonas syringae Scab Cladosporium carpophilum Botryosphaeria Blight Botryosphaeria Blight Botryosphaeria dothidea Shot Hole - suppression Wilsonomyces carpophilus Xanthomonas pruni Blumeriella gaapi Cercospora spp. Brown Rot-suppression Monilinia spp. Pecan Scab Cladosporium caryigenum	1-6	Walnut Blight – Begin application no later than pistill and repeat at 7- to 10-day intervals or as needed. App advance of rain for maximum protection. When cond conducive to rapid disease development, for improved Serenade ASO in a tank mix or rotational program wi based bactericide registered for control of walnut blig For all other diseases – Begin application prio development and repeat on <u>7 to 10</u> day intervals Use higher rates and shorter application intervals disease pressure. For improved performance, use Ser a tank mix or rotational program with other registered	ate bloom oly in itions are l control, use th a copper- ht. or to disease or as needed. under heavy enade ASO in fungícides.

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Crops	Disease	Rate Qts./acre	Application Instructions
Tropical Fruits Avocado Bananas Plantains Mango Papaya Pineapple and other tropical fruits	Anthracnose Colletotrichum gloeosporioides Colletotrichum ananas Bacterial Canker Xanthomonas campestris Scab Sphaceloma perseae	1-6	 Avocado/Mango - Begin application at budbreak and repeat on a <u>14</u> to <u>21</u> day interval or as needed through harvest. Papaya/Pineapple - Begin application at flowering and repeat on a <u>14</u> to <u>21</u> day interval or as needed through harvest. Bacterial Canker - Begin applications when environmental conditions are conducive to disease development. Repeat on 7 to 10 day intervals or as needed. Serenade ASO may be applied to fruit up to and including the day of harvest.
	Sigatoka <i>Mycosphaerella fijiensis</i> .	1- 6	Begin application when leaves first appear and repeat on a 7- to 21- day interval or as needed. Apply in sufficient water to obtain thorough coverage of foliage. For improved disease control, Serenade ASO may be tank-mixed with oil or other fungicides registered for control of Sigatoka at labeled rates. When conditions are conducive to rapid disease development and/or heavy disease pressure, higher application rates and rotational spray programs with other fungicides registered for control of Sigatoka are recommended.
Kiwi	Botytris Fruit Rot Botrytis cinera Bacterial Blight Pseudomonas viridiflava Pseudomonas syringae Sclerotinia Sclerotinia sclerotiorum	1-6	Kiwi – Begin application at early bloom and repeat on 7-10 day intervals or as needed. Serenade ASO may be applied to fruit up to and including the day of harvest.
Watercress	Cercospora leafspot Cercospora spp.	1-6	Begin applications when conditions are conducive to disease development. Continue applications on $7 \text{ to } 10$ day intervals or as needed.
Seed Production Crops blue grass rye grass fescue orchard grass and other crops grown to produce seeds	Powdery Mildew Erysiphe spp. Rust Puccinia spp.	1-6	Begin applications when environmental conditions and plant stage are conducive to disease development. Repeat on <u>7 to 10</u> day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.

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(Serenade ASO has a 0-Day PreHarvest 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.

Recommended Application Rates for Selected Greenhouse Crops - Agricultural Use

Green-	Diseases	Rate	Application Instructions
house		Ots./100	
Crops]	gallons	
		spray mix	
Brassica	Pin Rot Complex		Pin Rot - For suppression, begin applications when environmental
	Alternaria/Xanthomonas		conditions in the greenhouse are conducive to rapid disease
Broccoli	Bacterial Leaf Spot	1-6	development and repeat on $7 - 10$ day intervals or as needed.
Cabbage	Pseudomonas syringae		Thorough coverage is essential. For improved performance, use
Cauliflower	Bacterial Soft Rot		Serenade ASO in a tank mix or rotational program with other
Brussels	Erwinia / Pseudomonas		registered fungicides.
Sprouts	Black Rot		
Collards	Xanthomonas campestris		
Kale	Xanthomonas Leaf Spot		
Mustard	Xanthomonas campestris		For all other diseases - Begin application soon after emergence or
Greens	Alternaria Leaf Spot		transplant and when conditions in the greenhouse are conducive to
Kohlrabi and	Alternaria spp.		disease development. Repeat on a 7- to 10-day interval or as
other brassica	Anthracnose	l	needed.
crops	Colletotrichum		
	higginsianum	ł	
	Cercospora Leaf Spot		
	Cercospora brassicaicola		
	Downy Mildew	i	
	Peronospora parasilica	4	
	Peronospora spp.		
	Francisk - shugani		
	Erysipne polygoni Southam Dlight		
	Southern Bright		
Bulb	Potratia nucle rot		Papin applications what any ironmental conditions in the
Vegetables	Botratis enn	1.6	areenhouse are conducive to rapid disease development. Continue
vegetables	Botrytis Leaf Blight	1-0	spraye at 7 10 day intervals or as needed. When conditions in the
Onion	Robertis sulumosa		sprays at $7 - 10$ day intervals of as needed. When conditions in the greenhouse are conducive to ranid disease development use
Garlic	Onion Pumle Blotch	[.	Serenade ASO in a rotational program with other registered
Shallots and	Alternaria porri]	fungicides for Botrytis neck rot control. Thorough coverage is
other bulh	Onion Downy Mildew	ļ	essential.
vegetables	Peronospora destructor		
0	Downy Mildew		
	Peronospora spp.		
	Powdery Mildew		
	Erysiphe spp.		
	White Rot	l i	
	Sclerotium cepivorum		
	Durat		For any inclusion of the second state of the s
	Rust Russinia popri	1.4	For suppression, begin application when conditions are conducive
1		1-0	needed Thorough coverage is essential. For improved
	(netformance or as a part of a preventative disease control program
	1		use Serenade ASO in a tank mix or rotational program with other
	}		registered fungicides for rust control
		í	APROMATING INTERNATION INTERNATION

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Green- house Crops	Diseases	Rate Qts./100 gallons spray mix	Application Instructions
Cucumber Cucumber Cantaloupe Melon Muskmelon Squash Watermelon and other cucurbits	Powdery Mildew Erysiphe spp. Sphaerotheca spp. Gummy Stem Blight Phoma cucurbitacearum Didymella bryoniae Angular Leaf Spot Pseudomonas syringae Anthracnose Colletotrichum lagenarium Downy Mildew Pseudoperonospora cubensis Bacterial Fruit Blotch Acidovorax avenae	1- 6	Begin applications soon after emergence or transplant When environmental conditions in the greenhouse and plant stage are conducive to rapid disease development. Repeat on 7- 10 day intervals or as needed. Thorough coverage is essential. For improved performance, use Serenade ASO in a rotational program with other registered fungicides. $7 - 10$ day intervals or as needed.
Fruiting Vegetables Pepper Tomato Eggplant and other fruiting vegetables	Gray mold Botrytis cinerea	1- 6	For suppression, begin applications soon after emergence or transplant and continue on a 7-10 day interval or as needed. When environmental conditions in the greenhouse are conducive to rapid disease development, use Serenade ASO in a rotational program with other registered fungicides. Thorough coverage is essential.
	Powdery mildew Leveillula taurica Oidiopsis taurica Erysiphe spp. Sphaerotheca spp. Downy Mildew Pseudoperonospora cubensis	1- 6	For suppression, begin applications soon after emergence or transplant and continue on a 7-10 day interval or as needed. Thorough coverage is essential. Use maximum label rates under conditions conducive to rapid disease development. For improved performance, use Serenade ASO in a tank mix or in a rotational program with other registered fungicides.
	Bacterial Spot Xanthomonas spp. Target Spot Corynespora cassiicola	1-6	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, for improved performance, use Serenade ASO in a tank mix program with copper-based bactericides registered for control of bacterial spot.
	Bacterial Speck Pseudomonas syringae pv tomato	1- 6	Begin application 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. Use higher rates when conditions are conducive to rapid disease development. For improved performance, use Serenade ASO in a tank mix or in a rotational program with other registered fungicides.
	Buck-eye Rot Phytophthora parasitica Anthracnose Colletotrichum candidum	1-6	Begin application soon after emergence or transplant and continue on a 7 to 10 day interval or as needed. For improved performance of Serenade ASO add a surfactant [such as Biotune] to the spray tank to improve coverage.
	Bacterial Canker Clavibacter michiganensis	1-6	Begin applications when environmental conditions are conducive to disease development. Repeat on 7 to 10 day intervals or as needed.
	Early Blight Alternaria solani Late Blight suppression Phytophthora infestans	1- 6	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 in a tank mix or rotational program with other registered fungicides for late blight control. Use shorter spray intervals under conditions conducive to rapid disease development.

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Serenade⁴ ASO Master Lau

Green-	Diseases	Rate	Application Instructions
house		Qts./100	
Crops		gallons	
		spray mix	
Herbs/ Spices	Bacterial Blight	1-6	Begin application when environmental conditions in the
	Pseudomonas syringae		greenhouse are conducive to disease development. Repeat on a -/-
	Anthrachose Colletetrioum epp		to ro-day interval of as needed.
	Concionicum spp. Alternaria Leaf Blight		
	Alternaria spp		
	Botrytis		
	Botrytis spp.		
Leafy	Downy Mildew		Downy mildew / powdery mildew - For suppression, apply as a
Vegetables	Bremia lactucae	1- 6	foliar spray and begin applications when conditions are conducive
	Peronospora spp.		to disease development. Repeat on a 7- to 10-day interval or as
Lettuce	Powdery Mildew		needed. Apply in sufficient water to ensure complete coverage of
Celery	Erysiphe cichoracearum		entire plant. For improved performance as a preventative treatment
Spinach	Erysiphe spp.		in early crop stages or when conditions are conducive to rapid
Parsley	Pink Rot		disease development use Serenade ASO in a tank mix or
and other leafy	Scierotinia scierotiorum		alternating spray program with other registered lungicides.
vegetables	Anthracnose suppression		Pink rot Begin application approximately 8 weeks before harvest
	Colletotrichum spp.		and repeat on a 14 -day day interval. Apply Serenade ASO as a
	Denterial Land Const		directed spray in sufficient water to ensure thorough coverage of
	Bacterial Leaf Spot Yanthomonas campestris py		irrigation following application to incorporate Serenade may
	vitions		improve disease control
	Bacterial Blight		Anthracnose suppression - Begin application prior to disease
	Xanthomonas campestris		development when environmental conditions and plant stage are
			conducive to rapid disease development and repeat on a day 7 to
			10 day interval or as needed. Use higher rates and shorter
			application intervals under heavy disease pressure.
			Bacterial Blight /Bacterial Leaf Spot- Begin applications when
			environmental conditions are conducive to disease development.
			Repeat on 7 to 10 day intervals or as needed.
			· · · · · · · · · · · · · · · · · · ·
	Scierotinia Head and Leaf		For control of early Sclerotinia head and leaf drop: Apply at
	Drop	1- 6	planting or immediately following planting but prior to crop
	Sclerotinia spp.		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
			Additional applications should be made on
			10-14 day intervals if conditions for disease development persist.
			Use higher rates under conditions conducive to moderate to severe
	e		disease pressure. Light irrigation after application to incorporate
			the product may improve disease control. Thorough coverage is
			essential.
			OR
			For control of Scierotinia head and leaf drop: Apply as a
			directed spray with multiple nozzles per each seed line in sufficient
			water to ensure inorough coverage of lower plant leaves and
			surrounding son surrace within / days of thinning or transplanting.
			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.

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Green- house Crops	Diseases	Rate Qts./100 gallons spray mix	Application Instructions
Root / Tuber Carrot Potato Sweet Potato Beets Ginger	Black Rot/ Black Crown Rot Alternaria spp. Alternaria Leaf Blight Alternaria dauci Bacterial Leaf Spot Xanthomonas campestris pv. carotae	1- 6	Begin applications soon after emergence or transplant when environmental conditions in the greenhouse are conducive to rapid disease development. Continue sprays at 7-10 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.
Radish Radish Ginseng Turnip and other root/ Tuber crops	Bacterial Leaf Blight Xanthomonas campestris Downy Mildew Peronospora spp. Powdery Mildew Erysiphe spp. Gray Mold Botrytis spp. White Mold Sclerotinia sclerotiorum	1- 6	Begin applications when environmental conditions in the greenhouse are conducive to rapid disease development. Continue sprays at <u>7 to 10</u> -day intervals or as needed. Use high rates and shorter intervals when conditions are conducive to rapid disease development. Thorough coverage is essential.
	Early Blight Alternaria solani Late Blight suppression Phytophthora infestans	1- 6	For suppression, begin application soon after emergence and when conditions are conducive to disease development. Repeat on a 5 to 7 day interval or as needed. For improved performance, use Serenade in a tank mix or rotational program with other registered fungicides for late blight control.
Strawberry	Powdery Mildew Sphaerotheca macularis Erysiphe spp Anthracnose Colletotrichum acutatum Botrytis Botrytis cinerea	1-6	Botrytis/Powdery mildew - For suppression, begin application at or before flowering and repeat on a <u>7 to 10</u> day interval or as needed through harvest. For improved performance, use Serenade 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
	Gray Mold Botrytis spp. Angular Leaf Spot Xanthomonas fragariae		repeat on a <u>7 to 10</u> day interval or as needed. Angular Leaf Spot - Begin application when conditions are conducive to disease development. Continue sprays at <u>7 to 10</u> -day intervals or as needed. Use high rates and shorter intervals wher conditions are conducive to rapid disease development. For improved performance, use Serenade ASO in a tank mix or rotational program with other registered fungicides. Thorough coverage is essential.
			Serenade may be applied up to and including the day of harvest.



FOR USE ON ORNAMENTALS, TREES, SHRUBS, FLOWERS, BEDDING PLANTS, TROPICAL PLANTS (ORNAMENTALS - Poinsetta, Orchids, Dieffenbachia, Palms, Spathipphyllum, Rhaphiollepsis, Anglonemoa and FRUIT – Bananas, Mangos, Papaya), TURF, LAWNS, SOD, GOLF COURSES (GREENS, TEES, FAIRWAYS AND ROUGHS), SEEDLINGS, CONIFERS -[Agricultural Use], [Commercial], [Residential Use] [Reforestation]

Serenade ASO is a protectant fungicide for use indoors and outdoors for control of certain foliar diseases in the field, greenhouses [open or enclosed], interiorscape, residential and commercial landscapes, nurseries [open or enclosed] shade house environments, seedling production sites, golf courses (greens, tees, fairways and roughs), forests, forestry seedling production sites.

Serenade ASO can be applied to ornamentals, trees, shrubs, flowers, annual and perennial bedding plants, potted flowers, cut flowers, tropical foliage, container grown trees and shrubs, forestry seedlings, turf, lawns, sod, golf courses (greens, tees, fairways and roughs) and conifer production for reforestation purposes (greenhouses, shade houses, nurseries, indoors, outdoors, containers or field).

Foliar Application Use on Ornamentals, Trees, Shrubs, Flowers, Bedding Plants, Tropical Plants, Seedlings, Conifers:

APPLICATION INSTRUCTIONS: Apply Serenade ASO at rates ranging from 1 to 6 quarts of product in 100 [- 300] gallons of water per acre. Make applications on a 3- to 10-day schedule. Begin applications when conditions favor disease development prior to the onset of disease. [Begin applications prior to or in the early stages of disease development.]

Under normal conditions apply Serenade ASO at a rate of 4 quarts of product per 100 [-300] gallons of spray solution per acre on a 7-day schedule. When conditions favor severe disease development shorten the spray interval or use a higher rate. Thorough coverage is essential for effective disease control. When more diluted or concentrated spray solutions are needed for the type of equipment being used, follow the "Use Determination" section of this label. See application rate tables for more detailed application instructions.

Post Harvest Dip Use on Cut Flowers/Buds;

APPLICATION INSTRUCTIONS: For post-harvest dip applications on cut flower crops, dip cut flowers/buds in a solution containing 6 to 25 fluid ounces of Serenade ASO in 10 gallons of water soon after cutting. Immerse flowers for a period sufficient to provide thorough contact between cut flower/bud and the treatment solution. Use higher rates under conditions of heavy disease pressure.

See application rate tables for more detailed application instructions.

PLANTS EVALUATED FOR PHYTOTOXICITY

Serenade ASO has been tested for phytotoxicity on the ornamental species listed below. Since it is impossible to test all of the species and cultivars listed on this label under all conditions it is recommended that a small-scale preliminary trial be conducted to check for sensitivity before using this product on a large number of plants, using the product in accordance with all label use directions.

<u>TABLE 1</u>

PLANTS EVALUATED FOR PHYTOTOXICITY

Annual and Perennial Flowering Plants:

Alyssum	Asters	Azalea
Begonia	Calla lily	
Chrysanthemum	Cyclamen	Dianthus
Dwarf Bee-Balm		Easter lily
Garden phlox	Geraniums	Gerbera
Golden star	Hydrangea	Impatiens
Kalanchoe	Lanaria	Lisianthis
Lobelia	Marigolds	Orchids
Pansies	Petunia	Poinsettia
Portulaca	Ranunculus	Roses
Salvia spp.	Snapdragons	Stock
Verbena spp.	Vinca	Violas
Zinnias		

Tropical foliage:

Aglonemea	Dieffenbachia
Dracaena spp.	English Ivy
Hibiscus	Leatherleaf Fern
Spathiphyllum	

Trees and Shrubs:

Azalea	Boxwood
Crape myrtle	Dogwood
Jumbo azalea	Indian Hawthorn
Japanese maple	Legustrum japonicum
Lilac	Loropetalum
Photinia	Rhododendron
Rosaceae spp.	Soft Touch Holly
Spirea	

FOR USE AS SOIL DRENCH on O<u>rnamentals</u>, <u>Trees</u>, <u>Shrubs</u>, <u>Flowers</u>, <u>Bedding Plants</u>, <u>Tropical Plants</u>, Seedlings, Conifers: [Agricultural], [Commercial],

[Residential Use] [Indoors and Outdoors] [Greenhouses, Glasshouses, Nurseries] [Open and Enclosed] Serenade ASO is a broad spectrum biofungicide for the prevention, suppression and control of soil borne diseases on a wide range of annual and perennial bedding plants, potted flowers, foliage plants, deciduous trees and shrubs, and fruits and vegetables grown in protected environments. Serenade ASO enhances germination and plant growth by suppressing Serenade® ASO Master Lau-

02 February 2007 Revision diseases caused by Rhizoctonia, Pythium, Fusarium and Phytophthora.

APPLICATION INSTRUCTIONS: Mix 1qt (32 fl oz) to 6 qt (192 fl oz) of Serenade ASO with 100 gallons of water. 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 / 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 irrigation systems. Begin applications during or after seeding, sticking of cuttings or after transplanting to propagation beds, containers, pots or trays. Optimal performance is obtained with preventative treatments repeated every 21 - 28 days throughout the growing cycle. Serenade ASO can be mixed with chemical fungicides registered for soil applications.

See application rates tables for rates and application instructions.

FOR USE ON TURF, LAWNS, SOD, GOLF COURSES (GREENS, TEES, FAIRWAYS AND ROUGHS) **ORNAMENTAL TURF-** [Agricultural], [Commercial], [Residential Use]

Serenade ASO is a broad spectrum biofungicide for use in the prevention, suppression and aiding in control of turf and lawn diseases; brown patch, dollar spot, powdery mildew, rust and anthracnose.

Turf, Lawns, Sod, Greens, Ornamental Turf Use: **APPLICATION INSTRUCTIONS:** Apply at the rate of 2.0 to 10.0 fl. oz. of Serenade ASO per 1000 sq. ft. of surface area. Apply in sufficient water to provide thorough coverage, depending on the application equipment. Two gallons of water per 1000 sq. ft of surface is commonly used.

See application rate tables for more detailed application instructions.

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Application Rates for Turf, Lawns, Sod, Golf Courses (Greens, Tees, Fairways and Roughs), Ornamental Turf

Serenade ASO has a 0-Day PreHarvest 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.

Crops	Disease	Rate fl. oz./1000	Application Instructions
		sq. ft of surface area	
Turf, Sod, Lawns, Golf Course, (Fairways, Roughs, Greens, Tees) Seed production grasses, turf, etc. Bluegrass Bentgrass Bentgrass Bermuda grass Dichondra Fescue Orchard grass Poa Annua St. Augustine Ryegrass Zoyzia Mixtures and other grasses or ornamental turf	Brown patch (Rhizoctonia solani) Dollar Spot (Lanzia spp, Moellerodiscus, spp. formerly Sclerotinia homeocarpa) Powdery Mildew (Erysiphe graminis) Rust (Puccinia spp) Anthracnose (Colletotrichum graminicola)	2.0-10 fl. oz [1% - 4% solution] [2% - 8% solution]	 Apply at the rate of 2.0 to 10.0 fl. oz. of Serenade ASO per 1000 sq. ft. of surface area. Apply in sufficient water to provide thorough coverage, depending on the application equipment. Two gallons of water per 1000 sq. ft of surface is commonly used. Begin applications when conditions are conducive to disease development. Continue applications on 7 to 10 day intervals or as needed. 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. Aids in control of; brown patch, dollar spot, powdery mildew, rust and anthracnose. [Optional/Alternate Statements/Examples of Mixing/Application Instructions are in Brackets below] [Mix at the rate of 1 to 5 fl. oz of Serenade ASO per gallon of water and apply spray solution at the rate of 2 gallons per 1000 sq. ft. (equivalent to 2 to 10 fl. oz per 1000 sq. ft. of turf.] [Mix at the rate of 5 fl. oz. of Serenade ASO per gallon of water and spray solution at the rate of one gallon per 1000 sq. ft. of turf. (Equivalent to 2 to 10 fl. oz per 1000 sq. ft. of turf.] [Mix at the rate of 5 fl. oz. of Serenade ASO per gallon of water and spray solution at the rate of one gallon per 1000 sq. ft. of turf. [Mix at the rate of 5 fl. oz. of Serenade ASO per gallon of water when included in a tank mix with other registered fungicides.] [Mix a 1 % to 4% solution and apply solution spray at the rate of 2 gallons of spray solution per 1000 sq. ft. urf (equivalent to 2.5 to 10 fl. oz of Serenade ASO per gallon of star when included in a tank mix with other registered fungicides.] [Mix a 2 % to 8 % solution and apply solution spray at the rate of 1 gallon of spray solution per 1000 sq. ft. of turf.]

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Application Rates for Use as a Foliar Spray on Ornamentals, Trees, Shrubs, Flowering Plants

Serenade ASO has a 0-Day PreHarvest 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.

Crops	Disease	Rate* ats/100	Application Instructions
		gallons	
		spray mix	
Ornamentals	Anthracnose	1-6	
Trees, Shrubs	Colletotrichum spp.	í	Indoors, Outdoors, Field, Greenhouse, and Nursery Grown Plants:
Flowering Plants			Apply Serenade ASO at rates ranging from 1-6 quarts of product in 100
Tropical Plants	Bacteria –		- 300 gallons of water per acre. Make applications on a 3- to 10-day
	Erwinia spp		schedule. Begin applications when conditions favor disease development
	Psuedomonas spp	Í	prior to the onset of disease. or [Begin applications prior to or in the
Outdoors,	Xanthomonas spp	!	early stages of disease development.]
Indoors, Fields,			
Greenhouses,	Black spot of rose		Under normal conditions apply Serenade ASO at a rate of 4 quarts of
Nurseries	Diplocarpon rosea		product per 100 - 300 gallons of spray solution per acre on a 7-day
			schedule. When conditions favor severe disease development shorten
Annuals	Botrytis		the spray interval or use a higher rate. Thorough coverage is essential
Perennials	Botrytis cinerea		for effective disease control. When more diluted or concentrated spray
Bedding plants			solutions are needed for the type of equipment being used, follow the
Potted flowers	Downy Mildew		"Use Determination" section of this label.
Cut flowers	Peronospora spp.	1	
Foliage plants		1	
Deciduous trees	Leaf spots –		Post Harvest Dip Application on Cut Flowers: For post-harvest dip
Deciduous	Alternaria spp		applications on cut flower crops, dip cut flowers/buds in a solution
shrubs	Cercospora spp		containing 6 to 25 fl oz of Serenade ASO in 10 gallons of water
Tropical foliage	Entomosporium spp		soon after cutting. Immerse flowers for a period sufficient to provide
Container	Helminthsporium spp		thorough contact between cut flower/bud and the treatment solution.
grown plants	Myrothecium spp		Use higher rates under conditions of heavy disease pressure.
B -	Septoria spp.		
	* -*		
	Powdery mildew		
	Erysiphe spp		
	Oidium spp		
	Podosphaera spp		
	Sphaerotheca spp.		
	Phytophthora spp		
	Duct	j	
	Rust –		
	Puccinia spp.		,
	Cash		
	Scao		
	venturta spp.		

* Rate presented in quarts/100 gallons of spray mix otherwise noted.

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Application Rates for Soil Drench Uses in Field, Greenhouses, Glasshouses, Shadehouses, Nurseries [Outdoors and Indoors] [Open or Enclosed]

Serenade ASO has a 0-Day PreHarvest 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.

Crops	Disease	Rate* qts/100 gallons spray mix	Application Instructions
Ornamentals Trees Shrubs Annuals Perennials Flowering plants Tropical plants Bedding plants Container plants Potted plants Foliage plants Deciduous trees Deciduous trees Deciduous shrubs Forestry Seedlings Fruits Vegetables and other crops grown in greenhouses and open and enclosed nurseries	Rhizoctonia spp. Pythium spp. Fusarium spp. Phytophthora spp.	1-6	 Soil Drench Uses: Field, Greenhouses, Glasshouse Shadehouses, Indoors/Outdoors, Open And Enclosed Nurseries Mix 1qt (32 fl. oz) to 6 qt (192 fl. oz) of Serenade ASO with 100 gallons of water. 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 / 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 irrigation systems. Begin applications during or after seeding, sticking of cuttings or after transplanting to propagation beds, containers, pots or trays. Optimal performance is obtained with preventative treatments repeated every 21 – 28 days throughout the growing cycle. Serenade ASO can be mixed with chemical fungicides registered for soil applications.

* Rate presented in quarts/100 gallons of spray mix otherwise noted.

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[Serenade[®] Garden[™] Disease Control Concentrate]

[Alternate Names for Turf Label when sold for hose end sprayers:]

['Serenade Garden Lawn (or Turf) Disease Control -Ready to Spray', Serenade Garden Lawn (or Turf) Disease Control, 'Serenade Garden Disease Control for Lawns (or Turf) - Ready to Spray'] [For Home and Garden Use] [For Home, Garden and Lawn (Turf) Use] [Optional/Alternate Statements:] ["NOP Logo: For Organic Gardening"] ["NOP Logo: Can Be Used for Organic Gardening"] ["NOP Logo: For Organic Lawn Care"] [Optional Claims:] [Attacks over 40 diseases] [Attacks both fungal & bacterial diseases] [Apply any time of day] [Will not burn or injure leaves, lawns (turf)] [Fungicide (or Biofungicide) that attacks harmful garden and lawn diseases] [Use on Roses, Vegetables, Fruits, Flowering Plants, Trees, Shrubs and Lawns (Turf) [Controls Bacterial Spot, Powdery Mildew, Rust, Grey Mold, Leaf Blight, Scab, and more] [Concentrate] [Same active ingredient used by farmers] [Optional Claims for Lawn and Turf Label:] [Prevents and controls harmful (major) lawn diseases (including brown patch, dollar spot and more)"] [Controls Brown Patch, dollar spot and other common lawn diseases [Use anytime on all lawns to prevent and control major lawn diseases] [Promotes healthy disease-free lawns] ["Easy! Attach Hose and Spray!"] [Same active ingredient used on golf courses]

[Promotes Greener, Healthier Lawns]

ACTIVE INGREDIENT

QST 713 strain of Bacillus subtilis	1.34%
INERT INGREDIENTS	<u>98.66%</u>
Total	0.00%
Contains a minimum of 1 x 10° CFU/g	

EPA Reg. No. 69592-12 EPA Est. No.:

LATE LOL TO							
I	2	1	4	5			
69592-	67545-	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, 6,291,426, and 6,417,163 on QST 713 strain of *Bacillus subtilis*

Net contents: [16 fluid ounces OR 20 fluid ounces OR 24 fluid ounces OR 28 fluid ounces OR 32 fluid ounces

[Makes up to 4 gallons of spray (16 fl oz size), Makes up to 5 gallons of spray (20 fl oz size), Makes up to 6 gallons of spray (24 fl oz size), Makes up to 8 gallons of spray (32 fl oz size)]

[Lawn Use: Treats up to 4000 sq. ft. (16 fl oz), Treats up to 5000 sq. ft. (20 fl oz),

Treats up to 6000 sq. ft. (24 fl ox), Treats up to 8000 sq. ft. (32 fl oz), for Hose-End Sprayer on 28 fl. oz. Ready to Spray Bottle, Treats 5,600 sq ft]

KEEP OUT OF REACH OF CHILDREN

CAUTION

[For smaller container sizes:] [See attached booklet for First Aid Statements.] [Peel back tab for First Aid and Precautionary Statements and Directions for Use.]

FIRST AID

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 doctor or poison control center for further treatment advice. Have the product label with you when calling a doctor or poison control center.

PRECAUTIONARY STATEMENTS- Home and Garden

HAZARDS TO HUMANS & DOMESTIC ANIMALS Harmful if inhaled. Avoid breathing spray mist. Remove contaminated clothing and wash clothing before use.

ENVIRONMENTAL HAZARDS – Home and Garden

Do not apply directly to water. Do not contaminate water when disposing of equipment wash waters 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 Garden Disease Control Concentrate [Alternate Statement: is a broad spectrum, preventative biofungicide recommended for the control or suppression of many important plant diseases and] [Alternate Statement: effectively controls or prevents a wide range of important fungal and bacterial plant diseases and] [Serenade Garden Disease Control Concentrate] may be used on roses, vegetables, fruits, nuts, flowers, houseplants, foliage, trees, shrubs, lawns, turf, sod, and ornamental turf [located in residential landscapes].

[Serenade Garden Disease Control may be applied any time of day, in full sun and high temperatures, without stressing or burning foliage.]

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As a general precaution, when exposed to high concentrations of a living microbial product such as this, wear a dust particle mask when applying this product.

[MIXING AND] APPLICATION INSTRUCTIONS -Home and Garden

Serenade Garden Disease Control Concentrate can be applied in commonly used pressurized hand-held sprayers, hose-end sprayers and spray trigger bottles. Spray to ensure thorough coverage of the plant.

For best results, treat prior to foliar disease development or at the first sign of foliar disease infection. Repeat at 7-day intervals or as needed. [Under conditions of high disease pressure] When environmental conditions favor rapid disease development (high humidity, excessive rain, extreme moisture condition, etc.) spray more often [Alternate: shorten the spray interval].

Serenade Garden Disease Control Concentrate can be applied up to and including the day of harvest.

Pressurized Hand-Held Sprayer Application Instructions:

Mixing and Application:

For all applications mix the spray solution thoroughly and keep spray solution agitated during application. Do not allow spray mixture to stand overnight or for prolonged periods.

For Fruits, Vegetables, Nuts (e. g. Apples/Pears, Broccoli, Carrot, Cherries, Cucurbits, Grapes, Leafy Vegetables, Onions/Garlic, Pepper, Tomato, and Walnuts): Mix 2 fl oz (% cup = 4 TBSP) to 4 fl oz (% cup = 8 TBSP) of Serenade Garden Disease Control Concentrate per gallon of water. Spray plants to runoff, covering both top and bottom surface of foliage to ensure thorough coverage.

For Annual and Perennial Ornamental Plants, Flowering Plants, Tropical Foliage, Trees and Shrubs: Mix 2 fl oz $(\frac{1}{4} \text{ cup} = 4 \text{ TBSP})$ to 4 fl oz ($\frac{1}{2} \text{ cup} = 8 \text{ TBSP}$), of Serenade Garden Disease Control Concentrate per gallon of water. Spray plants to runoff, covering both top and bottom surface of foliage to ensure thorough coverage.

For Lawnsj, Turf, Sod and Ornamental Turf]: Mix 2 fl $oz (\frac{1}{2} cup = 4 TBSP)$ to 8 fl oz (1 cup = 16TBSP), of Serenade Garden Disease Control Concentrate per gallon of water. Apply at a rate of 2 gallons of spray solution per 1,000 square feet (equivalent to 4 to 8 fl oz of Serenade Garden Disease Control Concentrate per 1,000 square feet of turf).

[Optional/Alternate: For Lawns], Turf, Sod and Ornamental Turf]: Mix 1 fl oz (1/8 cup = 2 TBSP) to 4 fl oz ($\frac{1}{2}$ cup = 8 TBSP), of Serenade Garden Disease Control Concentrate per gallon of water. Apply at a rate of 2 gallons of spray solution per 1,000 square feet (equivalent to 2 to 8 fl oz of Serenade Garden Disease Control Concentrate per 1,000 square feet of turf).]

Hose-End Sprayer Application Instructions:

Follow hose end sprayer directions to determine how to fill, set dial, spray, clean and disconnect from hose. Set dial on sprayer to deliver rates per gallon below. Do not allow spray mixture to stand overnight or for prolonged periods.

Application:

For Fruits, Vegetables, Nuts (e. g. Apples/Pears, Broccoli, Carrot, Cherries, Cucurbits, Grapes, Leafy Vegetables, Onions/Garlic, Pepper, Tomato, and Walnuts): Set sprayer to apply 2 fl oz ($\frac{1}{4}$ cup = 4 TBSP) to 4 fl oz ($\frac{1}{2}$ cup = 8 TBSP) of Serenade Garden Disease Control Concentrate per gallon of water. Spray plants to runoff, covering both top and bottom surface of foliage to ensure thorough coverage.

For Annual and Perennial Ornamental Plants, Flowering Plants, Tropical Foliage, Trees and Shrubs: Set sprayer to apply 2 fl oz ($\frac{1}{4}$ cup = 4 TBSP) to 4 fl oz ($\frac{1}{2}$ cup = 8 TBSP) of Serenade Garden Disease Control Concentrate per gallon of water. Spray plants to runoff, covering both top and bottom surface of foliage to ensure thorough coverage.

For Lawns[, Turf, Sod and Ornamental Turf Mix]: Set sprayer to apply 2 fl oz ($\frac{1}{2}$ cup = 8 TBSP) to 8 fl oz (1cup = 16 TBSP) of Serenade Garden Disease Control Concentrate per gallon of water. Apply one gallon of spray to thoroughly cover 1000 square feet.

[Optional/alternative: Set sprayer to apply 2 fl oz (¼ cup = 4 TBSP) to 4 fl oz ($\frac{1}{2}$ cup = 8 TBSP) per gallon of water and apply one gallon of spray to thoroughly cover 500 square feet. (equivalent to 4 - 8 fl oz of Serenade Garden Disease Control Concentrate per 1,000 square feet of turf).]

[Optional/alternative: Set sprayer to apply 1 fl ounce (1/8) cup = 2 TBSP) to 2 fl oz($\frac{1}{4}$ cup = 4 TBSP) per gallon of water and apply one gallon of spray to thoroughly cover 250 square feet. (equivalent to 4 - 8 fl oz of Serenade Garden Disease Control Concentrate per 1,000 square feet of turf).]

[Application Instructions for Hose-End Sprayer on Ready to Spray Bottle:]

For Lawns [, Turf, Sod and Ornamental Turf]:

- 1. Shake container well before using.
- 2. Make sure the nozzle is in the "OFF" position with the safety tab in the valve notch.
- 3. Securely attach a garden hose to the hose-end spray nozzle, tightening nozzle.
- Calculate the square feet of the area to be treated by multiplying length by width. 5 fl. oz. of Serenade Garden Lawn Disease Control- Ready to Spray will treat 1000 sq. ft. of lawn [Turf and Ornamental Turf].
- 5. Turn on water at faucet. Extend hose to the farthest area to be treated and work backward toward the faucet.
- 6. To begin spraying, point nozzle at the lawn [Turf and Ornamental Turf] to be treated and bend the safety tab back while turning the dial clockwise. The water will automatically start mixing and spraying. Walk backwards at a steady pace sweeping the spray in an overlapping motion to cover the area to be treated. Refer to the sight gauge on the side of the bottle to guide coverage (example: When 1 fl. oz. of spray has been used, you should have covered 200 sq. ft. of lawn [Turf and Ornamental Turf])
- 7. To turn the sprayer off, turn the dial in the opposite direction (counter-clockwise) until the water stops flowing and the safety tab engages. Turn the water off at the faucet. To relieve pressure before detaching sprayer, bend the safety tab back and turn the dial on (clockwise) until the water stops spraying. Then turn the dial back to the off position until the safety tab engages.
- 8. Detach the hose-end sprayer from the hose and store unused product in a cool, dark place until its next use.

[SERENADE GARDEN DISEASE CONTROL CONCENTRATE] MAY BE USED ON [THE FOLLOWING]: [Alternate: VEGETABLES, FRUIT, NUTS, AND ORNAMENTAL PLANTS] [Alternate; PLANTS, CROPS, SITES]

HOME and GARDEN [VEGETABLES, FRUITS AND NUTS] PLANTS: Artichoke, Asparagus,

Berries (Blueberries, Blackberry, Raspberry, Loganberry, Huckleberry, Cranberry, Gooseberry, Elderberry, Currant, Caneberry, and other berry crops)

Brassica (Broccoli, Cabbage, Cauliflower, Brussels Sprouts, Collards, Kale, Mustard Greens, Kohlrabi and other brassica crops)

Bulb Vegetables (Onion, Garlic, Shallots and other bulb vegetables)

Citrus (Orange, Grapefruit, Lemon, Tangerine, Tangelo, Pummelo and other citrus crops)

Cucurbits (Cucumber, Cantaloupe, Melon, Muskmelon, Squash, Watermelon and other cucurbit crops)

Fruiting Vegetables (Pepper, Tomato, Eggplant and other fruiting vegetables)

Grape, Herbs/ Spices, Hop,

Leafy Vegetables (Lettuce, Celery, Spinach, Parsley, Radicchio and other leafy vegetable crops)

Legumes/vegetables (Beans, Green beans, Snap beans, Shell beans, Dry Beans, Garbanzo beans, Lima beans, Peas, Chick peas, Split peas, Lentils and other legume/ vegetable crops)

Mango, Mint, Olive, Papaya, Peanuts,

Pome Fruit (Apple, Crabapple, Pear, Quince, Mayhaw and other pome fruit)

Root / Tuber (Carrot, Potato, Sweet Potato, Beets, Ginger, Horseradish, Radish, Ginseng, Turnip and other root/ tuber crops)

Roses

Stone Fruit (Apricot, Cherry, Nectarine, Peach, Plum, Prune, and other stone fruit crops) Strawberry, Sweet Corn, Tobacco, Watercress,

Tree Nut (Almond, Pistachio, Pecan, Walnut, Filberts, Chestnut, Cashew, Beechnut. Butternut and other tree nut crops)

GREENHOUSE PLANTS:

Brassica (Broccoli, Cabbage, Cauliflower, Brussels Sprouts, Collards, Kale, Mustard Greens, Kohlrabi and other brassica crops)

Bulb Vegetables (Onion, Garlic, Shallots and other bulb vegetables)

Cucurbits (Cucumber, Cantaloupe, Melon, Muskmelon, Squash, Watermelon and other cucurbits) Fruiting Vegetables (Pepper, Tomato, Eggplant and other fruiting vegetables)

Herbs/ Spices

Leafy Vegetables (Lettuce, Celery, Spinach, Parsley, Radicchio, and other leafy vegetables)

Root / Tuber (Carrot, Potato, Sweet Potato, Beets, Ginger, Horseradish, Radish, Ginseng, Turnip and other root/ tuber crops)

Strawberry

02 February 2007 Revision Serenade[®] ASO Master Lat. ORNAMENTALS, TREES, SHRUBS, FLOWERING PLANTS, TROPICAL PLANTS: Black Root Revision

PLANTS EVALUATED FOR PHYTOTOXICITY

Annual and Perennial Flowering Plants:

Alyssum Begonia Chrysanthemum Dwarf Bee-Balm Garden phlox Golden star Kalanchoe Lobelia Pansies Portulaca Salvia spp. Verbena spp. Zinnias

Azalea Asters Calla lily Cyclamen Dianthus Easter lily Gerbera Geraniums Hydrangea Impatiens Lanaria Lisianthis Orchids Marigolds Poinsettia Petunia Ranunculus Roses Stock Snapdragons Violas Vinca

Tropical foliage:

Aglonemea	Dieffenbachia
Dracaena spp.	English Ivy
Hibiscus	Leatherleaf Fern
Spathiphyllum	

Trees and Shrubs:

Azałea Crape myrtle Jumbo azalea Japanese maple Lilac Photinia *Rosaceae* spp. Spirea.

Boxwood Dogwood Indian Hawthorn *Legustrum japonicum* Loropetalum Rhododendron Soft Touch Holly

[Optional Statement; It is impossible to test all plants for phytotoxicity. To assure that the plants to be treated are not sensitive to the treatment, apply a small amount of the highest application rate of the product to a few leaves or the above ground portion of a plant and check within 3 days. Use product according to label directions.]

DISEASES CONTROLLED [OR SUPRESSED] [OR PREVENTED] [BY SERENADE GARDEN DISEASE CONTROL CONCENTRATE] [ON VEGETABLES, FRUIT, NUTS, ORNAMENTAL PLANTS] [Alternate; ON PLANTS, CROPS, SITES]

Anthracnose -- Colletotrichum spp.

Bacteria-Erwinia spp, Psuedomonas spp, Xanthomonas spp

Bacterial Leaf Blight (Xanthomonas campestris)

Bacterial Speck (Pseudomonas syringae pv. Tomato

Bacterial Spot (Xanthomonas spp.) - suppression

Bean Rust (Uromyces appendiculatus) - suppression

Black Mold (Alternaria alternata)

Black Root Rot/Black Crown Rot (Alternaria spp.)

Black spot of rose -- Diplocarpon rosea

Botrytis (Botrytis spp)

Botrytis Leaf Blight (Botrytis squamosa)

Botrytis Neck Rot (Botrytis spp.)

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

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Early Blight (Alternaria solani) - suppression

Fire Blight (Erwinia amylovora) - suppression

Gray Mold (Botrytis cincrea)

Greasy spot (Mycosphaerella citri) - suppression

Late Blight (Phytophthora infestans) - suppression

Leaf spots – (Alternaria spp, Cercospora spp, Entomosporium spp, Helminthsporium spp, Myrothecium spp, Septoria spp.)

Onion Downy Mildew (Peronospora destructor)

Onion Purple Blotch (Alternaria porri) Phytophthora spp

Pin Rot (Alternaria/Xanthomonas complex) - suppression

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

Powdery Mildew – Erysiphe spp, Oidium spp, Pldosphaera spp, Sphaerotheca spp

Rust - Puccinia spp.

Scab (Venturia spp.) - suppression

Sclerotinia head and leaf drop (Sclerotinia spp.)

Sour Rot

Target Spot (Corynespora cassiicola)

Walnut Blight (Xanthomonas campestris)

White Mold (Sclerotinia sclerotiorum) - suppression

[SERENADE GARDEN DISEASE CONTROL CONCENTRATE] MAY BE USED ON LAWNS], TURF, SOD AND ORNAMENTAL TURF and Golf Courses.(Fairways, GREENS, roughs, tees)]

LAWNS[, TURF, SOD AND ORNAMENTAL TURF, GOLF COURSES (Fairways, GREENS, Roughs, Tees)]: Bluegrass, Bentgrass, Bermudagrass, Dichondra, Fescue, Orchard grass, Poa Annua, St. Augustine, Ryegrass,

Zoyzia, Mixtures and other grasses or ornamental turf.

DISEASES CONTROLLED [OR SUPRESSED] [OR PREVENTED] [BY SERENADE GARDEN DISEASE CONTROL CONCENTRATE] [ON LAWNS[, TURF, SOD AND ORNAMENTAL TURF and Golf Courses.(Fairways, GREENS, roughs, tees)]]]

Lawn and Turf Diseases:

Brown patch (Rhizoctonia solan)i Dollar Spot (Lanzia spp, Moellerodiscus, spp. formerly Sclerotinia homeocarpa) Powdery Mildew (Erysiphe graminis) Rust (Puccinia spp) Anthracnose (Colletotrichum graminicola)

STORAGE AND DISPOSAL - Home and Garden

STORAGE: Store in original container only, [Alternate: in an area inaccessible to children] [or Alternate: out of reach of children]. Keep container closed when not in use

CONTAINER DISPOSAL:

[16-, 20-, 24-, 28- or 32-ounce bottle] 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.

Questions or Comments call 800 728-0014

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CONDITONS FOR SALE AND WARRANTY

Except to the extent prohibited by applicable law, AgraQuest offers this product with the following conditions: 1) buyers and users of this product assume the risk of any storage, handling or use contrary to AgraQuest's label and directions and 2) AgraQuest's liability shall in no case exceed the purchase price of the applicable AgraQuest product.

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