69592-13

3/28/2012



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

MAR 2 8 2012

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Ms. Sherry D. Heins Product Registration Manager Agraquest, Inc. 1540 Drew Avenue Davis, CA 95618

Re: Sonata ASO EPA Reg. No. 69592-13 Submission dated 2/13/2012 Decision No. 461237

Dear Ms. Heins:

The Agency has reviewed your request to amend the subject product registration. The amendment includes the following changes to the product's label:

- Insertion of seed treatment sub-label B and associated instructions;
- Addition of White Mold and associated instructions;
- Addition of new crop groups, soil diseases, and application instructions for Soil Uses;
- Revised conditions for sale and warranty.

The amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(7)(A), is acceptable provided that you:

- 1. Submit and/or cite all data required for registration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
- 2. Submit two (2) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of a final printed label.

If these conditions are not complied with, then the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions. A stamped copy of the label and A-79 are enclosed for your records. If you have questions, please contact Michael Glikes by phone at (703) 305-6231 or by email at glikes.michael@epa.gov.

Sincerely,

Sheryl K. Keilly, Ph.D. Chief, Microbial Pesticides Branch Biopesticides and Pollution Prevention Division (Mail Code 7511P)

Internet.Address (URL)

http://www.epa.gov
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SONATA® ASO

[Alternate Product Name: Sonata[®]] [Alternate Product Name: Ballad[®] Plus]

MASTER LABEL

Sub-label A: Agricultural/Commercial Use Sub-label B: Seed Treatment

ACTIVE INGREDIENT:

Bacillus pumilus strain QST 2808
(spores, solids, solubles and water)* 1.38%
OTHER INGREDIENTS 98.62%
Total

*Contains a minimum of 1 x 10⁹ cfu/g.

ACCEPTED MAR 2 8 2012

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 69592 -13

KEEP OUT OF REACH OF CHILDREN

CAUTION

EPA Reg. No. 69592-13

EPA Est. No .:

1 2 3 4 5 69592- 67545- 66728- 37429- 69592-MEX-1 AZ-1 GA-2 GA-2 CA-1

Superscript corresponds to last two digits of container lot number.

AgraQuest, Inc. 1540 Drew Avenue Davis, California 95618



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Sonata® ASO

Biofungicide Sub-label A

For Agricultural/Commercial Use

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SONATA[®] ASO

[Alternate Product Name: Sonata[®]] [Alternate Product Name: Ballad[®] Plus]

[OPTIONAL/ALTERNATE STATEMENT: "NOP LOGO: FOR ORGANIC PRODUCTION"] [OPTIONAL/ALTERNATE STATEMENT: "NOP LOGO: CAN BE USED FOR ORGANIC PRODUCTION"]

ACTIVE INGREDIENT:

Bacillus pumilus strain QST 2808	
(spores, solids, solubles and water)*	.1.38%
OTHER INGREDIENTS	98.62%
Total	00.00%

*Contains a minimum of 1 x 10⁹ cfu/g.

KEEP OUT OF REACH OF CHILDREN CAUTION

EPA Reg. No. 69592-13

EPA Est. No.:

01 02 03 04 05 69592- 67545- 66728- 37429- 69592-

MEX-1 AZ-1 GA-2 GA-2 CA-1

[Superscript corresponds to last two digits of container lot number.]

AgraQuest, Inc. 1540 Drew Avenue Davis, California 95618 U.S. Patent No. 6,245,551 and 6,586,231 on QST 2808 strain of *Bacillus pumilus* [Net Contents:] [See attached label booklet for First Aid, Precautionary Statements, Directions for Use, and Storage and Disposal Instructions and Conditions for Sale and Warranty.] [Peel back tab for First Aid, Precautionary Statements, Directions for Use, Storage and Disposal Instructions and Conditions For Sale and Warranty.] USE OF PRODUCT INDICATES ACCEPTANCE OF "CONIDTIONS FOR SALE AND WARRANTY"



SONATA ASO EPA MASTER LABEL Page 4 of 63 PRECAUTIONARY STATEMENTS

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HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Harmful if inhaled. Avoid breathing spray mist. Avoid contact with skin or clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

	FIRST AID
	Move person to fresh air.
IF INHALED:	 If person is not breathing, call 911 or an ambulance, and ther give artificial respiration, preferably mouth-to-mouth if possible.
	Call a poison control center or doctor for further treatment advice.
States and the state	Take off contaminated clothing.
IF ON SKIN OR CLOTHING:	Rinse skin immediately with plenty of water for 15-20 minutes.
olo minto.	Call a poison control center or doctor for further treatment advice

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves

Mixers/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

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

[OPTIONAL: ENGINEERING CONTROLS]

[Optional Statement: 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.]

[IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.]

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USER SAFETY RECOMMENDATIONS

Users should:

- Remove clothing/PPE immediately if pesticide gets 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

For terrestrial uses: 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 washwater or rinsate.

EMERGENCY INFORMATION

For emergencies such as leaks or spills, call 24-hour toll-free CHEMTREC hotline at 1.800.424.9300.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. 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.

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.

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

NON-AGRICULTURAL USE REQUIREMENTS

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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.

The WPS set out in Subpart B (40 CFR 170.102) does not apply when any pesticide is applied on an agricultural establishment (farm, forest, nursery or greenhouse) in the following circumstance(s):

Commercial Treatment of plants that are in ornamental gardens, parks, golf courses, and public or residential turf and grounds, and that are intended only for aesthetic purposes or climatic modification:

Keep unprotected persons out of treated areas until sprays have dried.

GENERAL USE INFORMATION

Sonata[®] ASO is a broad spectrum, preventative product for the control or suppression of many important plant diseases. Apply Sonata ASO as a foliar spray alone, in alternating spray programs or in tank mixes with other registered crop protection products. [Apply Sonata ASO as a soil drench alone or in tank mixes with other registered crop protection products.] When conditions are conducive to heavy disease pressure, use Sonata ASO in a rotational program with other registered fungicides. Apply Sonata ASO with spray equipment commonly used for making ground or aerial applications and sprinkler/irrigation systems commonly used for chemigation. Heavy rainfall or irrigation shortly after application may require retreatment. Sonata ASO can be used for organic production.

[OPTIONAL STATEMENT: Sonata ASO is most effectively used in a preventive disease management program. For improved performance, use Sonata ASO in a tank-mix or rotational program with other registered fungicides. When using Sonata ASO alone for the first time, use a rate of 4 qt Sonata ASO per acre. Increase the application rate and/or decrease spray intervals of Sonata ASO depending upon disease pressure. To enhance performance, consider adding a surfactant, known to be safe to the target crop, to the spray tank to improve penetration and coverage of above-ground portions of the plant.]

INTEGRATED PEST MANAGEMENT (IPM)

Integrate Sonata ASO 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.

USE RATE DETERMINATION

Carefully read and follow all label directions, use rates and restrictions. Application of Sonata ASO prior to or in the early stages of disease development provides the best control or suppression of plant disease. 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 label use rate and select appropriate gallonage to give good canopy penetration and coverage of plant parts to be protected. Prepare only the amount of spray solution required to treat the measured acreage. Accurate spray equipment calibration is essential prior to use.

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PREHARVEST INTERVAL

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

APPLICATION INSTRUCTIONS

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

AERIAL: 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, typically between 3 - 20 gallons of water per acre depending upon the crop. Three gallons of water per acre is the minimum.

CHEMIGATION: This product can be applied through sprinkler (center pivot, lateral move, end tow, side (wheel) roll, traveler, solid set, and hand move) or drip type irrigation systems. 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 Application Rate tables of this label.

MIXING INSTRUCTIONS

MIXING: Sonata ASO must be diluted with water. Partially fill the spray tank with clean water and begin agitation. Add the appropriate amount of Sonata ASO needed for the area treated to the tank. Finish filling the tank to the desired volume to obtain the proper spray concentration. It is critical to maintain agitation continuously during mixing and application to assure a uniform suspension. Do not allow spray mixture to stand overnight or for prolonged periods. Maintain a spray solution pH between 4.5 and 8.5.

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

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

Sonata 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 evaluate them prior to use, as follows: Using a suitable container, add proportional amounts of

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products to water. Add wettable powders first, followed by water dispersible granules, then 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. Before using this product on a large number of plants, 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, using the product in accordance with all label use directions.

ADDITIVES: Sonata 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 nonphytotoxic adjuvant to spray tank.

CHEMIGATION DIRECTIONS FOR USE

General Requirements:

- Apply this product through sprinkler (including center pivot, lateral move, end tow, side (wheel) roll, traveler, solid set or hand move) or drip type irrigation systems. Do not apply this product through any other type of irrigation system.
- 2) Crop injury or lack of effectiveness can result from non-uniform 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, the equipment manufacturer or other experts.
- 4) Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a 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.

Requirements for Chemigation Systems Connected to Public Water Systems :

- 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.
- The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back towards the injection pump.
- 4) 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.
- 5) 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.
- 6) 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 filled with a system interlock.
- 7) Do not apply when wind speed favors drift beyond the area intended for treatment.

8) 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.

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- 9) Do not combine Sonata 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. Sonata ASO has <u>not</u> been fully evaluated for compatibility with all adjuvants or surfactants. Conduct a spray compatibility test if mixture with adjuvants or surfactants is planned.
- 10)Maintain agitation in the pesticide supply tank.
- 11) Apply Sonata ASO during the last half of the water application.
- 12) Dilute Sonata ASO in enough water to be able to draw through system for the last half of the water application.

Sprinkler Chemigation Requirements:

- 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.
- 2) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3) 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.
- 4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5) 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.
- 6) 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.
- 7) Do not apply when wind speed favors drift beyond the area intended for treatment.
- 8) 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.
- 9) Do not combine Sonata 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. Sonata ASO has <u>not</u> been fully evaluated for compatibility with all adjuvants or surfactants. 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 Sonata ASO fungicide required to treat area.

 Add required amount of Sonata ASO fungicide and sufficient water to meet the injection time requirements of the solution tank.

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- Maintain constant solution tank agitation during the injection period.
- Stop injection equipment after treatment is completed. Continue to operate the system until Sonata 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 Sonata ASO fungicide required to treat area.
- Add the required amount of Sonata 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 Sonata 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 Sonata ASO fungicide solution has cleared the last sprinkler head.

Drip Chemigation Requirements:

- 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.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3) 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.
- 4) The system must contain functional inter-locking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5) 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.
- 6) 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.
- 7) 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.
- 8) Do not combine Sonata 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. Sonata ASO has <u>not</u> been fully evaluated for compatibility with all adjuvants or surfactants. Conduct a spray compatibility test if mixture with adjuvants or surfactants is planned.
- 9) Maintain agitation in the pesticide supply tank.
- 10) Apply Sonata ASO during the last half of the water application.

11)Dilute Sonata ASO in enough water to be able to draw through system for the last half of the water application.

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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, non-target crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals.

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IMPORTANT: READ CONDITIONS FOR SALE AND WARRANTY BEFORE USE

FOR USE AS A FOLIAR SPRAY ON SELECT AGRICULTURAL FIELD CROPS AND SELECT AGRICULTURAL GREENHOUSE CROPS

Sonata 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 Sonata ASO in a tank mix or rotational program with other registered fungicides.

Application Rates of Sonata ASO for Selected Agricultural Field Crops

Crops	Diseases	Rate qt/acre	Application Instructions
Artichoke	Powdery Mildew Leveillula taurica Erysiphe cichoracearum	2 - 4	Begin application when conditions are conducive to disease development. Repeat on 7- to 14-day intervals or as needed. Sonata ASO may be applied up to and including the day of harvest.
Asparagus	Rust Puccinia asparagi Botrytis Blight Botrytis cinerea	2 - 4	Begin application soon after emergence and when conditions are conducive to disease development. Repeat on 7- to 14- day intervals or as needed. Sonata ASO may be applied up to and including the day of harvest.
Avocado	Anthracnose Colletotrichum gloeosporioides Scab Sphaceloma perseae	2 - 4	Begin application at bud break and repeat on 7- to 14-day intervals or as needed through harvest. Sonata ASO may be applied to fruit up to and including the day of harvest.
Bananas Plantains	Sigatoka Mycosphaerella spp.	2 - 4	Begin application when leaves first appear and repeat on 7- to 14-day intervals or as needed. The addition of an approved emulsifiable oil to spray solutions will improve performance.
Berry Blueberries Blackberry Raspberry Loganberry Huckleberry Cranberry Gooseberry Elderberry Currant Caneberry and other Berry crops	Mummy Berry Monilinia vaccinii-corymbosi Anthracnose Fruit Rot Colletotrichum gloeosporioides 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.	2-4	Mummy Berry - For suppression, begin application at the bud break stage of development and repeat at 7- to 14-day intervals or as needed. For improved performance, use Sonata ASO in a tank mix or rotational program with other registered fungicides for Mummy Berry control. Bacterial Canker – Apply before fall rains and again during dormancy before spring growth. Apply throughout the growing season prior to disease development and repeat on a 7- to 14-day interval or as needed For all other diseases – Begin application prior to disease development and repeat on 7- to 14-day intervals or as needed. Sonata ASO may be applied to fruit up to and including the day of harvest.

Crops	Diseases	Rate qt/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 campestris Xanthomonas campestris Alternaria Leaf Spot Alternaria spp. Anthracnose Colletotrichum higginsianum Cercospora Leaf Spot Cercospora brassicicola Downy Mildew Peronospora parasitica Peronospora spp. Powdery Mildew Erysiphe polygoni Southern Blight Sclerotium rolfsii	2 - 4	 Pin Rot - For suppression, begin application when environmental conditions are conducive to disease development and repeat on 7- to 14-day intervals or as needed. For improved performance, use Sonata ASO in a tank mix or rotational program with other registered fungicides for Pin Rot control. For all other diseases - Begin application soon after emergence or transplant and when conditions are conducive to disease development. Repeat on 7- to 14-day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure. For improved performance, use Sonata ASO in a tank mix or rotational program with other registered fungicides.
Bulb Vegetables Onion Garlic Shallots and other bulb vegetables including those grown for seed production	Downy MildewPeronospora spp.Powdery MildewErysiphe spp.Botrytis Neck RotBotrytis spp.Botrytis Leaf BlightBotrytis squamosaOnion Purple BlotchAlternaria porriOnion Downy MildewPeronospora destructorRust	2 - 4	Begin application when environmental conditions and plant stage are conducive to disease development. Repeat on 7- to 14-day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.
	Puccinia porri	2 - 4	conditions are conducive to disease development and repeat on 7- to 14-day intervals or as needed. For improved performance, use Sonata ASO in a tank mix or rotational program with other registered fungicides for Rust control.

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Crops	Diseases	Rate qt/acre	Application Instructions
Cereal Grains Barley Corn Millets Oat Rice Rye Sorghum Triticale Wheat and other cereal grain crops	Powdery MildewErysiphe graminisRustPuccinia spp.BlastPyricularia oryzaeSheath Spot and BlightRhizoctonia oryzaeThanatephorus kernelThanatephorus cucumeris(Anamorph: Rhizoctoniasolani)SmutTilletia barclayanaBacterial Blight and StreakXanthomonas spp.Stem RotSclerotium oryzaeMagnaporthe spp.Brown Rot, Leaf Spots andSmutsCercospora spp.Entyloma spp.Dreschlera spp.Cochliobolus spp.Ceratobasidium spp.	1 - 4	Begin applications when environmental conditions and plant stage are conducive to disease development. Repeat on 7- to 14-day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.
Citrus Orange Grapefruit Lemon Tangerine Tangelo Pummelo and other citrus crops	Greasy Spot Mycosphaerella citri Post Bloom Fruit Drop Colletotrichum acutatum Scab Elsinoe fawcetti Melanose Diaporthe citri Alternaria Leaf Spot Alternaria alternata	2 - 4	Greasy Spot - For suppression, begin applications at first new foliar flush, and repeat with subsequent new flushes. When conditions are conducive to rapid disease development, Sonata ASO must be used in a tank mix program with other registered products, such as spray oil or copper- based fungicides, at labeled rates. Post Bloom Fruit Drop – For suppression, begin applications at early bloom and when conditions are conducive to disease development. Repeat on 7- to 14-day intervals or as needed. Utilize the shorter spray interval between applications in warm, wet conditions persist. Citrus Scab – For suppression, begin applications at first new foliar flush and repeat at petal fall and at ½ inch diameter fruit. Melanose – For suppression, begin

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Citrus continued			applications at petal fall and repeat on 7- to 14-day intervals until fruit becomes resistant.Alternaria Leaf Spot - Begin applications when environmental conditions and plant
Clover, forage Alfalfa, forage Other animal feed nongrass crops including those grown for seed production	White Mold (Sclerotinia Stem Rot) Sclerotinia sclerotiorum	2-4	For suppression of White Mold, begin application soon after emergence or transplant and when conditions are conducive to disease development. Repeat on a 7- to 14-day interval or as needed.
Cucumber Cantaloupe Melon Muskmelon Squash Watermelon and other cucurbits	Powdery Mildew Erysiphe spp. Sphaerotheca spp. Downy Mildew Pseudoperonospora cubensis Gummy Stem Blight Phoma cucurbitacearum Didymella bryoniae Angular Leaf Spot Pseudomonas syringae Anthracnose Colletotrichum lagenarium Bacterial Fruit Blotch Acidovorax avenae	2-4	Begin applications soon after emergence or transplant when environmental conditions and plant stage are conducive to disease development. Repeat on 7- to 14-day intervals or as needed. Use higher rates and short application intervals under heavy disease pressure. For improved performance, use Sonata ASO in a tank mix or rotational program with other registered fungicides.

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Crops	Diseases	Rate qt/acre	Application Instructions
Fruiting Vegetables Pepper Tomato Eggplant and other fruiting vegetables	Bacterial Spot Xanthomonas spp.	2 - 4	Begin application soon after emergence or transplant and when environmental conditions are conducive to disease development. Continue applications on 7- to 14-day intervals or as needed. When conditions are conducive to rapid disease development, for improved control, use Sonata ASO in a tank mix program with copper-based bactericides registered for control of Bacterial Spot at labeled rates.
	Bacterial Speck Pseudomonas syringae pv. tomato	2 - 4	Begin application soon after emergence or transplant and when environmental conditions are conducive to disease development. Continue applications on 7- to 14-day intervals or as needed. Use higher rates and shorter intervals under heavy disease development.
	Early Blight Alternaria solani Late Blight Phytophthora infestans	2 - 4	For suppression of Early Blight and control of Late Blight, begin applications when plants are 4 to 6 inches high. Repeat applications on 7- to 14-day intervals or as needed. Use higher rates and shorter intervals under heavy disease development. For improved performance, use Sonata ASO in a tank mix or rotational program with other registered fungicides for Early and Late Blight control.
	Powdery Mildew Oidiopsis taurica Erysiphe spp. Sphaerotheca spp. Downy Mildew Pseudoperonospora cubensis	2 - 4	Begin application soon after emergence or transplant and when environmental conditions are conducive to disease development. Continue applications on 7- to 14-day intervals or as needed. For improved performance, use Sonata ASO in a tank mix or rotational program with other registered fungicides for Powdery and Downy Mildew control.
	Gray Mold Botrytis cinerea	2 - 4	Begin application soon after emergence or transplant and repeat on 7- to 14-day intervals or as needed.
	White mold Sclerotinia sclerotiorum	2 - 4	Begin application soon after emergence or transplant and when environmental conditions are conducive to disease development. Continue applications on 7- to 14-day intervals or as needed. When conditions are conducive to rapid disease development, for improved control, use Sonata ASO in a tank mix program fungicides registered for control of White Mold.

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Crops	Diseases	Rate qt/acre	Application Instructions
Grape	Gray Mold Botrytis cinerea Sour Rot [a complex of pathogens Aspergillus niger, Alternaria tenuis, Botrytis cinerea, Cladosporium herbarum, Rhizopus arrhizus, Penicillium spp., and others]	2 - 4	Begin application at bloom, before bunch closure, at veraison and pre-harvest. Repeat on 7- to 14-day intervals or as needed. Sonata ASO may be applied to fruit up to and including the day of harvest.
	Powdery Mildew Uncinula necator	2 - 4	 Begin applications at prebloom. Continue at 7- to 14-day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure. Use of a spreader/sticker or wetting agent is recommended to ensure optimum control. (Begin application when new shoots are ½ to 1½ inches long. Repeat when shoots
			are 3 to 5 inches long, when shoots are 8 to 10 inches long and then at 7- to 14-day intervals until disease conditions no longer exist.)
	Downy Mildew Plasmopara viticola	2 - 4	Begin application when shoots are ½ to 1½ inches long. Repeat applications at 3- to 5-inch shoots, 8- to 10-inch shoots, and then on 7- to 14-day intervals as needed.
			(For suppression, apply at 10-inch shoot, then at 7- to 14-day intervals until bunch closure (berry touch). For improved performance, use Sonata ASO in a tank mix or rotational program with other registered fungicides for Downy Mildew control.)
	Phomopsis Phomopsis viticola	2 - 8	Begin applications when shoots are ½ to 1 inch long and repeat when shoots are 6 to 8 inches long.
	Eutypa <i>Eutypa lata</i>	2 – 5% v/v*	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).

*2 - 5% v/v rate (Sonata ASO to water) for this use only.

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Crops	Diseases	Rate qt/acre	Application Instructions
Grass Grown for Seed Production	Powdery Mildew Sphaerotheca spp. Erysiphe graminis Podosphaera spp. Oidium spp. Rust Puccinia spp.	1 - 4	For suppression - 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.
Herbs/ Spices	Bacterial Blight Pseudomonas syringae Anthracnose Colletotrichum spp. Alternaria Leaf Blight Alternaria spp.	2 - 4	Begin application when environmental conditions are conducive to disease development. Repeat on a 7- to 14-day interval or as needed.
Hops	Powdery Mildew Sphaerotheca macularis Downy Mildew Peronospora spp.	2- 4 qt./100 gal	 Begin applications when environmental conditions are conducive to rapid disease development. Continue at 7- to 14-day intervals or as needed. Use higher rates and shorter application intervals under moderate to heavy disease pressure. Apply at a rate of 2 - 4 qt per 100 gallons of water using ground equipment. Apply adequate spray volume to achieve complete spray coverage. Spray volume ranges for hop growth stages are as follows: Emergence to training: Use 2 - 4 qt 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 is 400 gallons per acre. Training to wire: Use 2 - 4 qt of product per 100 gallons of water. Apply using a minimum spray coverage.

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Hops continued		2-4	Wire touch through harvest: Use 2 - 4 qt 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. Maximum spray volume is 400 gallons per acre. For aerial applications only
		qt./acre	Begin applications when environmental conditions are conducive to rapid disease development. Continue at 7- to 14-day intervals or as needed. Use higher rates and shorter application intervals under moderate to heavy disease pressure.
Kiwi	Botrytis Fruit Rot Botrytis cinerea Bacterial Blight Pseudomonas viridiflava Pseudomonas syringae Sclerotinia Sclerotinia sclerotiorum	2-4	Apply at a rate of 2- 4 qt per acre. Begin application at early bloom and repeat on a 7- to 14-day interval or as needed. Sonata ASO may be applied to fruit up to and including the day of harvest.
Leafy Vegetables Lettuce Celery Spinach Parsley	Downy Mildew Bremia lactucae Peronospora spp. Powdery Mildew Erysiphe cichoracearum	2 - 4	Begin applications when environmental conditions are conducive to disease development. Continue on 7- to 14-day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.
Radicchio and other leafy vegetables including those grown for seed production	Pink Rot Sclerotinia sclerotiorum		Downy Mildew / Powdery Mildew - For suppression, begin application when conditions are conducive to disease development and repeat on a 7- to 14-day interval or as needed. Use higher rates and shorter application intervals under heavy disease pressure. For improved performance, use Sonata 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 7 to 14 interval. Apply Sonata 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 Sonata ASO may improve disease control.

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Crops	Diseases	Rate qt/acre	Application Instructions
Leafy Vegetables Lettuce Celery Spinach Parsley Radicchio and other leafy vegetables including those grown for seed production	Sclerotinia Head and Leaf Drop Sclerotinia spp.	2-4	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. 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 7- to 14-day intervals if conditions for disease development persist. Use higher rates under conditions conducive to moderate to severe disease pressure. Light irrigation after application to incorporate the product may improve disease control. OR For control of 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 7- to 14-day intervals if conditions for disease development persist. Use higher rates under conditions on 7- to 14-day intervals if conditions for disease development persist. Use higher rates and surrounding soil surface within 7 days of thinning or transplanting. Repeat applications on 7- to 14-day intervals if conditions for disease development persist. Use higher rates under conditions conducive to moderate to severe disease pressure. Light irrigation after applications on 7- to 14-day intervals if conditions for disease development persist. Use higher rates under conditions for disease development persist. Use higher rates under conditions for disease development persist. Use higher rates under conditions for disease development persist. Use higher rates under conditions for disease development persist. Use higher rates under conditions conducive to moderate to severe diseas

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Crops	Diseases	Rate qt/acre	Application Instructions
Legumes Vegetables Beans Green beans Snap beans Shell beans Dry beans Garbanzo beans Lima beans Peas Chick Peas Soybeans Split Peas Lentils and other legumes vegetables including those grown for seed production	Rust Uromyces appendiculatus	1 - 4	For suppression, begin application soon after emergence or transplant and when conditions are conducive to disease development. Repeat on 7- to 14-day intervals or as needed. For improved performance, use Sonata ASO in a tank mix or rotational program with other registered fungicides for Rust control.
	RustPuccinia spp.Bacterial BlightPseudomonas syringaeBrown SpotSeptoria glycinesBacterial PustuleXanthomonas spp.Cercospora Leaf SpotCercospora spp.Downy MildewPeronospora manshuricaPowdery MildewErysiphe spp.	1 - 4	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.
	Asian Soybean Rust Phakopsora pachyrhizi	1 - 4	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.
	Damping-Off Aphonomyces spp.	1 - 4	Begin application soon after emergence or transplant and when environmental conditions are conducive to disease development. Repeat on 7- to 14-day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.
	White Mold (Sclerotinia Stem Rot) Sclerotinia sclerotiorum	1 - 4	Begin application soon after emergence or transplant and when environmental conditions are conducive to disease development. Repeat on 7- to 14-day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.

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Crops	Diseases	Rate qt/acre	Application Instructions
Mango	Anthracnose Colletotrichum gloeosporioides	2-4	Begin application at budbreak and repeat on 7- to 14-day intervals or as needed through harvest. Sonata ASO may be applied to fruit up to and including the day of harvest.
Mint	Rust Puccinia menthae Powdery Mildew Erysiphe spp. Downy Mildew Peronospora spp.	2 - 4	Begin application soon after emergence and when conditions are conducive to disease development. Repeat on 7- to 14- day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.
Olive	Olive Knot Pseudomonas savastanoi	2 - 4	Apply before fall rains and again during dormancy before spring growth. Under conditions conducive to heavy disease pressure, for improved control, use Sonata ASO in a tank-mix or rotational program with a copper-based bactericide registered for control of Olive Knot.
Oil Seed Crops Canola Castor Coconut Cotton Flax Oil Palm Olive Peanut Rapeseed Safflower Sesame Sunflower Soybeans and other oilseed crops	Bacterial SpeckPseudomonas syringae pv.glycineaBrown SpotSeptoria glycinesCercospora Leaf SpotCercospora spp.Pod and Stem BlightDiaporthe phaseolorum var.sojaePhomopsis longicollaDowny MildewPeronospora manshuricaWhite Mold(Sclerotinia Stem Rot)Sclerotinia sclerotiorumBacterial PustuleXanthomonas spp.	1 - 4	Begin application soon after emergence and when conditions are conducive to disease development. Repeat on 7- to 14- day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.
including those grown for seed production	Asian Soybean Rust Phakopsora pachyrhizi	1 - 4	Use as part of a program with other fungicides labeled for Asian Soybean Rust. Begin application soon after emergence and when conditions are conducive to disease development. Repeat on 7- to 14-day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.

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Crops	Diseases	Rate qt/acre	Application Instructions
Papaya	Anthracnose Colletotrichum gloeosporioides	2 - 4	Begin application at flowering and repeat on 7- to 14-day intervals or as needed through harvest. Sonata ASO may be applied to fruit up to and including the day of harvest.
Peanuts	Early Leaf Spot Cercospora arachidicola Late Leaf Spot Cercosporidium personatum Rust Puccinia arachidis White Mold Sclerotinia sclerotiorum	2 - 4	Begin application when environmental conditions are conducive to disease development. Repeat applications on 7- to 14-day intervals or as needed. For improved control of Leaf Spot diseases, use Sonata ASO in a tank mix program with copper-based fungicides registered for control of Peanut Leaf Spot diseases. Peanut hay may be fed to livestock.
Pome Fruit Apple Crabapple Pear Quince Mayhaw and other pome fruit crops	Fire Blight Erwinia amylovora	2-4	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 Sonata 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 to 7 days may be required. For apples and pears 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 Sonata 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.

Pome Fruit continued			BEL Page 25 of 63 Use of Sonata 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 Sonata ASO.
Pome Fruit Apple Crabapple Pear Quince Mayhaw and other pome fruit crops	Scab Venturia spp.	2 - 4	For suppression, begin application at green tip or when environmental conditions become favorable for primary Scab development and repeat on 7- to 14- day intervals. When environmental conditions are conducive to rapid disease development, for improved performance, use Sonata ASO in a tank mix or rotational program with other registered fungicides for Scab control.
	Powdery Mildew Podosphaera leucotricha	2 - 4	Begin application at tight cluster, or sooner, if conditions are conducive to disease development. Repeat applications through the second cover spray at 7- to 14-day intervals. Additional sprays beyond second cover may be needed on susceptible varieties or when environmental conditions are conducive to rapid disease development or under heavy disease pressure. Use higher rates and shorter spray intervals when conditions are conducive to rapid disease development or heavy disease pressure.
Root / Tuber and Corm Vegetables Carrot Potato Sweet Potato Beets Ginger Horseradish Radish Ginseng Turnip and other root/tuber vegetables crops including those grown for seed production	Black Root Rot/ Black Crown Rot Alternaria spp.	2 - 4	Begin application soon after emergence or transplant and when conditions are conducive to disease development. Repeat application at 7- to 14-day intervals or as needed. Use higher rates and shorter intervals under heavy disease pressure.
	Bacterial Leaf Blight Xanthomonas campestris Downy Mildew Peronospora spp. Powdery Mildew Erysiphe spp. White Mold Sclerotinia sclerotiorum Gray Mold Botrytis spp.	2 - 4	Begin application soon after emergence or transplant and when conditions are conducive to disease development. Repeat application at 7- to 14-day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.

Crops	Diseases	Rate qt/acre	Application Instructions
Root / Tuber and Corm Vegetables Carrot Potato Sweet Potato Beets Ginger Horseradish	Early Blight Alternaria solani Late Blight Phytophthora infestans	2 - 4	For suppression, begin application soon after emergence and when conditions are conducive to disease development. Repeat on 7- to 14-day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure. For improved performance, use Sonata ASO in a tank mix or rotational program with other registered fungicides for Early and Late Blight control.
Radish Ginseng Turnip and other root/tuber vegetables crops including those grown for seed	Aerial Stem Rot Erwinia carotovora	2 - 4	For suppression, begin applications at the first sign of disease, or when conditions become conducive for disease development. Repeat on a 7- to 14-day interval or as needed.
production Roses, Field	Powdery Mildew Sphaerotheca spp. Rust Puccinia spp.	2 - 4	Begin applications when environmental conditions and plant stage are conducive to disease development. Continue applications on 7- to 14-day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.
Stone Fruit Apricot Cherry Nectarine Peach Plum Prune and other stone fruit crops	Anthracnose Colletotrichum spp. Powdery Mildew Sphaerotheca pannosa 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 Monilinia fructicola	2-4	Brown Rot Blossom Blight – Begin application at early bloom and repeat through petal fall on 7- to 14-day intervals or as needed. Scab – Begin application at petal fall and repeat on 7- to 14-day intervals or as needed. Bacterial Canker – Apply post harvest before fall rains and again during dormancy before spring growth. Powdery Mildew- Begin application at popcorn stage and repeat on 7- to 14-day intervals or as needed. For improved performance, use Sonata ASO in a tank mix or rotational program with other registered fungicides for Powdery Mildew control.

Stone Fruit	Gray Mold		EL Page 27 of 63
continued	Botrytis cinerea Shot Hole Wilsonomyces carpophilus Xanthomonas pruni Blumeriella jaapii Cercospora spp.		For all other diseases – Begin application prior to disease development and repeat on 7- to 14-day intervals or as needed. Sonata ASO may be applied to fruit up to and including the day of harvest.
Strawberry	Powdery Mildew Erysiphe spp. Gray Mold Botrytis spp.	2 - 4	Begin applications when new growth starts and before fruit starts to form. Continue applications on 7- to 14-day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.
	Powdery Mildew Sphaerotheca macularis Anthracnose Colletotrichum acutatum Botrytis Botrytis cinerea	2 - 4	Botrytis/Powdery Mildew - For suppression, begin application at or before flowering and repeat on 7- to 14-day intervals or as needed through harvest. For improved performance, use Sonata ASO in a tank mix or rotational program with other registered fungicides for Powdery Mildew and Botrytis control. Anthracnose – Begin application prior to disease development and repeat on 7- to 14-day intervals or as needed.
Sugar Beets	Powdory Mildew		Sonata ASO may be applied up to and including the day of harvest. Begin applications when environmental
including crop grown for seed production	Powdery Mildew Erysiphe betae Erysiphe polygoni Leaf Spot Cercospora beticola Ramularia Ramularia spp. Rust Uromyces betae	2 - 4	conditions are conducive to disease development. Continue applications on 7- to 14-day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.
Sweet Corn including crop grown for seed production	Common Rust Puccinia sorghi Northern Leaf Blight Exserohilum turcicum Helminthosporium turcium Southern Leaf Blight Bipolaris maydis Helminthosporium maydi Cochliobolus heterostrophus	1-4	Begin applications when environmental conditions are conducive to disease development. Continue applications on 7- to 14-day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.

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Crops	Diseases	Rate qt/acre	Application Instructions
Tobacco	Blue Mold Peronospora hyoscyami	2 - 4	Begin applications when conditions are conducive to disease development. Continue applications on a 7- to 14-day interval or as needed.
Watercress	Cercospora Leafspot Cercospora spp.	2 - 4	Begin applications when conditions are conducive to disease development. Continue applications on a 7- to 14-day interval or as needed.
Tree Nut Almond Pistachio Pecan Walnut Filberts Chestnut Cashew Beechnut Butternut and other tree nut crops	Walnut Blight Xanthomonas campestrisAlternaria Leaf Spot Alternaria alternataAnthracnose Colletotrichum acutatumBacterial Canker Pseudomonas syringaeScab Cladosporium carpophilumBotryosphaeria Blight Botryosphaeria dothideaShot Hole Wilsonomyces carpophilus Xanthomonas pruni Blumeriella gaapi Cercospora spp.Brown Rot Monilinia spp.	2-4	 Walnut Blight – Begin application no later than pistillate bloom and repeat on 7- to 14-day intervals or as needed. Apply in advance of rain for maximum protection. Under conditions conducive to heavy disease pressure, for improved control, use Sonata ASO in a tank-mix or rotational program with a copper-based bactericide registered for control of Walnut Blight. For all other diseases – Begin application prior to disease development and repeat on 7- to 14-day intervals or as needed.

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Greenhouse Crops	Diseases	Rate qt/100 gallons spray mix	Application Instructions
Brassica Vegetables (Cole Crops) Broccoli Cabbage Cauliflower Brussels Sprouts Collards Kale Mustard Greens Kohlrabi and other brassica crops	Pin Rot ComplexAlternaria/ XanthomonasBacterial Leaf SpotPseudomonas syringaeBacterial Soft RotErwinia / PseudomonasBlack RotXanthomonascampestrisXanthomonas Leaf SpotXanthomonascampestrisAlternaria Leaf SpotAlternaria spp.AnthracnoseColletotrichumhigginsianumCercospora Leaf SpotCercospora parasiticaPeronospora spp.Powdery MildewErysiphe polygoniSouthern BlightSclerotium rolfsii	2-4	 Pin Rot - For suppression, begin application when environmental conditions in the greenhouse are conducive to disease development and repeat or 7- to 14-day intervals or as needed. For improved performance, use Sonata ASO in a tank mix or rotational program with other registered fungicides for Pin Rot control. For all other diseases - Begin application soon after emergence or transplant and when conditions in the greenhouse are conducive to disease development. Repeat on 7- to 14-day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure. For improved performance, use Sonata ASO in a tank mix or rotational program with other registered fungicides.

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Greenhouse Crops	Diseases	Rate qt/100 gallons spray mix	Application Instructions
Bulb Vegetables Onion Garlic Shallots and other bulb vegetables 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.	2 - 4	Begin application when environmental conditions in the greenhouse are conducive to disease development and repeat on 7- to 14-day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure.
	Rust Puccinia porri	2 - 4	For suppression, begin application when conditions are conducive to disease development and repeat on a 7- to 14-day interval or as needed. For improved performance, use Sonata ASO in a tank mix or rotational program with other registered fungicides for Rust control.
Cucumber Cantaloupe Melon Muskmelon Squash Watermelon and other cucurbits	Powdery Mildew Erysiphe spp. Sphaerotheca spp. Downy Mildew Pseudoperonospora cubensis Gummy Stem Blight Phoma cucurbitacearum Didymella bryoniae Angular Leaf Spot Pseudomonas syringae Anthracnose Colletotrichum lagenarium Bacterial Fruit Blotch Acidovorax avenae	2 - 4	Begin application soon after emergence or transplant and when environmental conditions in the greenhouse are conducive to disease development. Repeat on 7- to 14-day intervals or as needed. Use higher rate and shorter application intervals under heavy disease pressure. For improved performance, use Sonata ASO in a tank mix or rotational program with other registered fungicides.

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Greenhouse Crops	Diseases	Rate qt/100 gallons spray mix	Application Instructions
Fruiting Vegetables	Gray Mold Botrytis cinerea	2 - 4	Begin application soon after emergence or transplant and repeat on 7- to 14-day intervals or as needed
Pepper Tomato Eggplant and other fruiting vegetables	Powdery Mildew Oidiopsis taurica Erysiphe spp. Sphaerotheca spp. Downy Mildew Pseudoperonospora cubensis	2-4	Begin application soon after emergence or transplant and continue on 7- to 14-day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure. For improved performance, use Sonata ASO in a tank mix or rotational program with other registered fungicides for Powdery and Downy Mildew control.
	Bacterial Spot Xanthomonas spp.	2 - 4	Begin application soon after emergence or transplant and when environmental conditions are conducive to disease development. Continue applications on 7- to 14-day intervals or as needed. When conditions are conducive to rapid disease development, for improved control, use Sonata ASO in a tank mix program with copper- based bactericides registered for control of Bacterial Spot at labeled rates
	Early Blight Alternaria solani Late Blight Phytophthora infestans	2 - 4	For suppression of Early Blight and control of Late Blight, begin application when plants are 4- to 6- inches high. Repeat applications on 7- to 14-day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure. For improved performance, use Sonata ASO in a tank mix or rotational program with other registered fungicides for Early and Late Blight control.
	White mold Sclerotinia sclerotiorum	2 - 4	Begin application soon after emergence or transplant and when environmental conditions are conducive to disease development. Continue applications on 7- to 14-day intervals or as needed. When conditions are conducive to rapid disease development, for improved control, use Sonata ASO in a tank mix program fungicides registered for control of White Mold.

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SONATA ASO EPA MASTER LABEL Page 32 of 63 Greenhouse Diseases Rate **Application Instructions** at/100 Crops gallons spray mix **Bacterial Blight** Begin application when environmental conditions Herbs/ in the greenhouse are conducive to disease Pseudomonas syringae 2-4 Spices development. Repeat on 7- to 14-day intervals or Anthracnose as needed. Colletotrichum spp. Alternaria Leaf Blight Alternaria spp. **Downy Mildew** Downy Mildew / Powdery Mildew For Leafy 2-4 suppression, begin application when conditions Vegetables Bremia lactucae are conducive to disease development and repeat Peronospora spp. on 7- to 14-day intervals or as needed. Lettuce For improved performance, use Sonata ASO in a tank **Powdery Mildew** Celery mix or rotational program with other registered Erysiphe cichoracearum Spinach fungicides for Downy Mildew and Powdery Mildew Erysiphe spp. Parsley control. Radicchio Pink Rot and other leafy Sclerotinia sclerotiorum Pink Rot - Begin application approximately 8 weeks before harvest and repeat on 7 to 14 vegetables intervals. Apply Sonata 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 Sonata ASO may improve disease control. For control of early Sclerotinia Head and Leaf Drop: Sclerotinia Head and Apply at planting or immediately following planting but 2 - 4 Leaf Drop prior to crop emergence as a 4- to 6-inch seed line Sclerotinia spp. 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 Repeat applications on 7- to 14-day of thinning. 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 7- to 14-day intervals if conditions for disease development persist. Use higher rates under conditions conducive to moderate to severe disease pressure. Light irrigation after application to incorporate the product may improve

disease control.

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Greenhouse Crops	Diseases	Rate qt/100 gallons spray mix	Application Instructions
Root / Tuber and Corm Vegetables	Black Root Rot/ Black Crown Rot Alternaria spp.	2 - 4	Begin application soon after emergence or transplant and when conditions are conducive to disease development. Repeat on a 7- to 14-day interval or as needed.
Carrot Potato Sweet Potato Beets Ginger Horseradish Radish Ginseng Turnip and other root/tuber and corm crops	Bacterial Leaf Blight Xanthomonas campestris White Mold Sclerotinia sclerotiorum	2 - 4	Begin application soon after emergence or transplant and when conditions are conducive to disease development. Repeat on a 7- to 14-day interval or as needed.
	Aerial Stem Rot Erwinia carotovora	2 - 4	For suppression, begin applications at the first sign of disease, or when conditions become conducive for disease development. Repeat on a 7- to 14-day interval or as needed.
	Early Blight Alternaria solani Late Blight Phytophthora infestans	2 - 4	For suppression, begin application soon after emergence and when conditions are conducive to disease development. Repeat on 7- to 14-day intervals or as needed. Use higher rates and shorter application intervals under heavy disease pressure. For improved performance, use Sonata ASO in a tank mix or rotational program with other registered fungicides for Early and Late Blight control.

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Greenhouse Crops	Diseases	Rate qt/100 gallons spray mix	Application Instructions
Strawberry	Powdery Mildew Sphaerotheca macularis Erysiphe spp. Anthracnose Colletotrichum acutatum Botrytis Botrytis cinerea Gray Mold Botrytis spp.	2 - 4	Botrytis/Powdery Mildew - For suppression, begin application at or before flowering, when new growth starts and before fruit starts to form, when environmental conditions are conducive to disease development. Repeat on 7- to 14-day intervals or as needed through harvest. Use higher rates and shorter application intervals under heavy disease pressure. For improved performance, use Sonata ASO in a tank mix or rotational program with other registered fungicides for Powdery Mildew and Botrytis control. Anthracnose – Begin application prior to disease development and repeat on a 7- to 14-day interval or as needed. Sonata ASO may be applied up to and including the day of harvest.

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FOR USE AS A SOIL TREATMENT ON SELECT AGRICULTURAL FIELD CROPS

Sonata 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 Sonata ASO in a tank mix or rotational program with other registered fungicides.

Sonata ASO is a broad spectrum biofungicide for the prevention, suppression and control of soil borne diseases on a wide range of fruits and vegetables as well as cotton. Sonata ASO enhances germination and plant growth by suppressing diseases caused by *Rhizoctonia, Pythium, Fusarium, Verticillium* and *Phytophthora*. See the application tables for specific information.

APPLICATION INSTRUCTIONS:

All Soil Surface (Drench), Shanked-In, Injected and In-Furrow Applications:

Mix 1 qt [(32 fl oz)] to 6 qt [(192 fl oz)] of Sonata ASO in appropriate amount of water per acre. Use higher application rates when the weather conditions are expected to be conducive for disease development, if the field has a history of disease problems, or if minimum/low till programs are in place. Sonata ASO can be mixed with chemical fungicides registered for soil applications.

Soil Surface (Drench) Applications at Planting:

Use at planting, seeding, or transplant. Apply finished spray mixture, at a rate to thoroughly soak the growing media through the root zone, as a drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems.

Shanked-In or Injected Applications: Sonata ASO can be shanked-in or injected into the soil prior to-, at-, or post-planting/ transplanting of crops alone or with most types of liquid nutrients.

In-Furrow Applications:

For in-furrow applications, apply Sonata ASO as an in-furrow spray in the appropriate amount of water per acre for the crop at planting. Mount the spray nozzle so the spray is directed in the furrow just before the seeds are covered.

Soil Surface (Drench) Applications at Any Stage of Growth: Apply the finished spray mixture to the surface of the soil as a drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems. When applying as a spray (e.g., via hydraulic nozzles at low volumes), it is important to irrigate to move the material into the seed, root or transplant zone. Normal operation of overhead sprinklers and drip irrigation systems are sufficient for effective applications. Optimal performance is obtained with preventative treatments repeated every 21 to 28 days throughout the growing cycle.

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

Crops	Disease	Rate (qt/acre)	Application Instructions
Animal Feed, Nongrass Alfalfa Clover Kudzu Lupin Vetch and other animal feed nongrass crops Brassica Leafy Vegetables	Aphanomyces spp. Fusarium spp. Bacterial Wilt Macrophomina spp. Phytophthora spp. Verticillium spp. Rhizoctonia spp.		All Soil Surface (Drench), Shanked-In, Injected and In- Furrow Applications: Mix 1 qt [(32 fl oz)] to 6 qt [(192 fl oz)] of Sonata ASO in appropriate amount of water per acre. Use higher application rates when the weather conditions are expected to be conducive to disease development, if the field has a history of disease problems, or if minimum/low till programs are in place. Sonata ASO can be mixed with chemical fungicides registered for soil applications. Soil Surface (Drench) Applications at Planting: Use at
(Cole Crops) Broccoli Cabbage Cauliflower Brussels Sprouts Collards Kale Mustard Greens Kohlrabi and other brassica leafy	Pythium spp. Fusarium spp. Verticillium spp. Phytophthora spp. Clubroot Plasmodiophora brassicae Macrophomina spp.	1-6	 Soil Surface (Drench) Applications at Planting: Use a planting, seeding or transplant. Apply finished spray mixture a a rate to thoroughly soak the growing media through the rod zone, as a drench or directed spray using hand-held mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drivingation systems. Shanked-In and Injected Applications: Sonata ASO can be shanked-in or injected into the soil prior to at-, or post-planting/transplanting of crops alone or with mot types of liquid nutrients. In-Furrow Applications: For in-furrow applications, apply Sonata ASO as an in-furro
vegetables Bulb Vegetables Onion Garlic Shallots and other bulb vegetables including those grown for seed production	Rhizoctonia spp. Pythium spp. Fusarium spp. Verticillium spp. Phytophthora spp. Bacterial Neck Rot Pink Rot Phoma spp. – (Suppression)		 spray in the appropriate amount of water per acre for the crop at planting. Mount the spray nozzle so the spray is directed in the furrow just before the seed are covered. Soil Surface (Drench) Applications at Any Stage of Growth: Apply the finished spray mixture to the surface of the soil as a drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems. When applying as a spray (e.g., via hydraulic nozzles at low volumes), it is important to irrigate to move the material into the seed, root or transplant zone. Normal operation of overhead sprinklers and drip irrigation systems are sufficient for effective applications. Optimal performance is obtained with preventative treatments repeated every 21 to 28 days throughout the growing cycle.

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Crops	Disease	Rate (qt/acre)	Application Instructions	
Cereal Grains Barley Corn Millets Oat Rice Rye Sorghum Triticale Wheat and other cereal grain crops	Rhizoctonia spp. Pythium spp. Fusarium spp. Verticillium spp. Phytophthora spp. Bakanae Gibberella fujikuroi Macrophomina spp.	0.25 - 6	All Soil Surface (Drench), Shanked-In, Injected and In-Furrow Applications: Mix 0.25 qt [(8 fl oz)] to 6 qt [(192 fl oz)] of Sonata ASO in appropriate amount of water per acre. Use higher application rates when the weather conditions are expected to be conducive to disease development, if the field has a history of disease problems, or if minimum/low till programs are in place. Sonata ASO can be mixed with chemical fungicides registered for soil applications. Soil Surface (Drench) Applications at Planting: Use at planting, seeding or transplant. Apply finished spray mixture at a rate to thoroughly soak the growing media through the root zone, as a drench or directed spray using hand-held, mechanical or motorized spray using applicable sprinkler or drip irrigation systems. Shanked-In and Injected Applications: Sonata ASO can be shanked-in or injected into the soil prior to-, at-, or post-planting/transplanting of crops alone or with most types of liquid nutrients. In-Furrow Applications: For in-furrow applications, apply Sonata ASO as an in-furrow spray in the appropriate amount of water per acre for the crop at planting. Mount the spray nozzle so the spray is directed in the furrow just before the seed are covered. Soil Surface (Drench) Applications at Any Stage of Growth: Apply the finished spray mixture to the surface of the soil as a drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems. When applying as a spray (e.g., via hydraulic nozzles at low volumes), it is important to irrigate to move the material into the seed, root or transplant zone. Normal operation of overhead sprinklers and drip irrigation systems are sufficient for effective applications. Optimal performance is obtained with preventative treatments repeated every 21 to 28 days throughout the growing cycle.	

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Crops	Disease	Rate (qt/acre)	Application Instructions	
Citrus Fruit Orange Grapefruit Lemon Tangelo Pummelo and other citrus crops	Rhizoctonia spp. Pythium spp. Fusarium spp. Verticillium spp. Phytophthora spp. Macrophomina spp.	1-6	All Soil Surface (Drench), Shanked-In, Injected and In- Furrow Applications: Mix 1 qt [(32 fl oz)] to 6 qt [(192 fl oz)] of Sonata ASO in appropriate amount of water per acre. Use higher application rates when the weather conditions are expected to be conducive to disease development, if the field has a history of disease problems, or if minimum/low till programs are in place. Sonata ASO can be mixed with chemical fungicides registered for soil applications. Soil Surface (Drench) Applications at Planting: Use at planting, seeding or transplant. Apply finished spray mixture at a rate to thoroughly soak the growing media through the root zone, as a drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems. Shanked-In and Injected Applications: Sonata ASO can be shanked-in or injected into the soil prior to-, at-, or post-planting/transplanting of crops alone or with most types of liquid nutrients. In-Furrow Applications: For in-furrow applications, apply Sonata ASO as an in-furrow spray in the appropriate amount of water per acre for the crop at planting. Mount the spray mixture to the surface of the soil as a drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applications at Any Stage of Growth: Apply the finished spray mixture to the surface of the soil as a drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems. When applying as a spray (e.g., via hydraulic nozzles at low volumes), it is important to irrigate to move the material into the seed, root or transplant zone. Normal operation of overhead sprinklers and drip irrigation systems are sufficient for effective applications. Optimal performance is obtained with preventative treatments repeated every 21 to 28 days throughout t	
	Phytophthora spp.	1 – 6	Soil Surface (Drench) Applications at Root Flush: Apply 1 fl oz of the finished spray mixture per plant to the surface of the soil at root flush (just prior to foliar (vegetative) flush) as a drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems. When applying as a spray (e.g., via hydraulic nozzles at low volumes), it is important to irrigate to move the material into the root or transplant zone. Normal operation of overhead sprinklers and drip irrigation systems are sufficient for effective applications.	

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Crops	Disease	Rate (qt/acre)	Application Instructions
Corn Sweet Corn Popcorn Seed Corn Silage Corn Field Corn and other corn crops Cotton	Rhizoctonia spp. Pythium spp. Fusarium spp. Verticillium spp. Phytophthora spp.		All Soil Surface (Drench), Shanked-In, Injected and In- Furrow Applications: Mix 1 qt [(32 fl oz)] to 6 qt [(192 fl oz)] of Sonata ASO in appropriate amount of water per acre. Use higher application rates when the weather conditions are expected to be conducive to disease development, if the field has a history of disease problems, or if minimum/low till programs are in place. Sonata ASO can be mixed with chemical fungicides registered for soil applications. Soil Surface (Drench) Applications at Planting: Use at planting, seeding or transplant. Apply finished spray mixture at a rate to thoroughly soak the growing media
Cucurbits Vegetables Cucumber Cantaloupe Melon Muskmelon Squash Watermelon and other cucurbit vegetables	Rhizoctonia spp. Pythium spp. Fusarium spp. Verticillium spp. Phytophthora spp. Monosporascus cannonballus Macrophomina spp.	1 – 6	 Initial a rate to thoroughly soak the glowing media through the root zone, as a drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems. Shanked-In and Injected Applications: Sonata ASO can be shanked-in or injected into the soil prior to-, at-, or post-planting/transplanting of crops alone or with most types of liquid nutrients. In-Furrow Applications: For in-furrow applications, apply Sonata ASO as an infurrow spray in the appropriate amount of water per acre for the crop at planting. Mount the spray nozzle so the spray is directed in the furrow just before the seed are covered. Soil Surface (Drench) Applications at Any Stage of Growth: Apply the finished spray mixture to the surface of the soil as a drench or directed spray using applicable sprinkler or drip irrigation systems. When applying as a spray (e.g., via hydraulic nozzles at low volumes), it is important to irrigate to move the material into the seed, root or transplant zone. Normal operation of overhead sprinklers and drip irrigation systems are sufficient for effective applications.

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Crops	Disease	Rate (qt/acre)	Application Instructions
Fruiting Vegetables Pepper Tomato Eggplant Ground Cherry Tomatillo Okra and other fruiting vegetables Leafy Vegetables Lettuce Celery Spinach Parsley Radicchio and other leafy vegetables	Rhizoctonia spp. Pythium spp. Fusarium spp. Verticillium spp. Phytophthora spp. Macrophomina spp. Rhizoctonia spp. Pythium spp. Fusarium spp. Verticillium spp. Phytophthora spp.	1-6	All Soil Surface (Drench), Shanked-In, Injected and In- Furrow Applications: Mix 1 qt [(32 fl oz)] to 6 qt [(192 fl oz)] of Sonata ASO in appropriate amount of water per acre. Use higher application rates when the weather conditions are expected to be conducive to disease development, if the field has a history of disease problems, or if minimum/low till programs are in place. Sonata ASO can be mixed with chemical fungicides registered for soil applications. Soil Surface (Drench) Applications at Planting: Use at planting, seeding or transplant. Apply finished spray mixture at a rate to thoroughly soak the growing media through the root zone, as a drench or directed spray using applicable sprinkler or drip irrigation systems. Shanked-In and Injected Applications: Sonata ASO can be shanked-in or injected into the soil prior to-, at-, or post-planting/transplanting of crops alone or with most types of liquid nutrients. In-Furrow Applications: For in-furrow applications, apply Sonata ASO as an in- furrow spray in the appropriate amount of water per acre for the crop at planting. Mount the spray nozzle so the spray is directed in the furrow just before the seed are covered. Soil Surface (Drench) Applications at Any Stage of Growth: Apply the finished spray mixture to the surface of the soil as a drench or directed spray using hand-held, mechanical or motorized spray using applicable sprinkler or drip irrigation systems. When applying as a spray (e.g., via hydraulic nozzles at low volumes), it is important to irrigate to move the material into the seed, root or transplant to ori- Mormal operation of overhead sprinklers and drip irrigation systems are sufficient for effective applications. Optimal performance is obtained with preventative treatments repeated every 21 to 28 days throughout the growing cycle.

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Crops	Disease	Rate (qt/acre)	Application Instructions
Leafy Vegetables Lettuce Celery Spinach Parsley Radicchio and other leafy	Sclerotinia Head and Leaf Drop Sclerotinia spp.		 All Soil Surface (Drench), Shanked-In, Injected and In-Furrow Applications: Mix 1 qt [(32 fl oz)] to 6 qt [(192 fl oz)] of Sonata ASO in the appropriate amount of water per acre. Use higher application rates when the weather conditions are expected to be conducive to disease development, if the field has a history of disease problems, or if minimum/low till programs are in place. Sonata ASO can be mixed with chemical fungicides registered for soil applications. Soil Surface (Drench) Applications at Planting: Use at
vegetables			planting, seeding or transplant. Apply finished spray mixture, at a rate to thoroughly soak the growing media through the root zone, as a drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems. Repeat applications on 10- to 14-day intervals if conditions for disease development persist. Use higher rates under conditions conducive to moderate to severe disease pressure. Light irrigation after application to incorporate the product may improve disease control.
		1 - 6	Shanked-In and Injected Applications: Sonata ASO can be shanked-in or injected into the soil prior to-, at-, or post-planting/transplanting of crops alone or with most types of liquid nutrients. Repeat applications on 10- to 14-day intervals if conditions for disease development persist. Use higher rates under conditions conducive to moderate to severe disease pressure. Light irrigation after application to incorporate the product may improve disease control.
			In-Furrow Applications: For in-furrow applications, apply Sonata ASO as an in-furrow spray in the appropriate amount of water per acre for the crop at planting. Mount the spray nozzle so the spray is directed in the furrow just before the seeds are covered. Repeat applications on 10- to 14-day intervals if conditions for disease development persist. Use higher rates under conditions conducive to moderate to severe disease pressure. Light irrigation after application to incorporate the product may improve disease control.
			Soil Surface (Drench) Applications at Any Stage of Growth: Apply the finished spray mixture to the surface of the soil as a drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems. When applying as a spray (e.g., via hydraulic nozzles at low volumes), it is important to irrigate to move the material into the seed, root or transplant zone. Normal operation of overhead sprinklers and drip irrigation systems are sufficient for effective applications. Optimal performance is obtained with preventative treatments repeated on 10- to 14-days intervals if conditions for disease development persist. Use higher rates under conditions conducive to moderate to severe disease pressure.

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Crops	Disease	Rate (qt/acre)	Application Instructions
Legumes/ Vegetables (Succulent and Dried) Bean Green beans Snap beans Shell beans Soybeans Dry Beans Garbanzo beans Lima beans Peas Chick peas Split peas Lentils and other legume / vegetable crops including those grown for seed production	Rhizoctonia spp. Pythium spp. Fusarium spp. Verticillium spp. Phytophthora spp. Macrophomina spp. Aphanomyces spp.	1 – 6	 <u>All Soil Surface (Drench), Shanked-In, Injected</u> and In-Furrow Applications: Mix 1 qt [(32 fl oz)] to 6 qt [(192 fl oz)] of Sonata ASO in appropriate amount of water per acre. Use higher application rates when the weather conditions are expected to be conducive to disease development, if the field has a history of disease problems, or if minimum/low till programs are in place. Sonata ASO can be mixed with chemical fungicides registered for soil applications. Soil Surface (Drench) Applications at Planting: Use at planting, seeding or transplant. Apply finished spray mixture at a rate to thoroughly soak the growing media through the root zone, as a drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems. Shanked-In and Injected Applications: Sonata ASO can be shanked-in or injected into the soil prior to-, at-, or post-planting/transplanting of crops alone or with most types of liquid nutrients.
Oilseed Crops Canola Castor Cotton Flax Rapeseed Safflower Sesame Sunflower and other oilseed crops (including those grown for seed or oil production)	Rhizoctonia spp. Pythium spp. Fusarium spp. Verticillium spp. Phytophthora spp. Clubroot Plasmodiophora brassicae		 In-Furrow Applications: For in-furrow applications, apply Sonata ASO as an in-furrow spray in the appropriate amount of water per acre for the crop at planting. Mount the spray nozzle so the spray is directed in the furrow just before the seed are covered. Soil Surface (Drench) Applications at Any Stage of Growth: Apply the finished spray mixture to the surface of the soil as a drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems. When applying as a spray (e.g., via hydraulic nozzles at low volumes), it is important to irrigate to move the material into the seed, root or transplant zone. Normal operation of overhead sprinklers and drip irrigation systems are sufficient for effective applications. Optimal performance is obtained with preventative treatments repeated every 21 to 28 days throughout the growing cycle.

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Crops	Disease	Rate (qt/acre)	Application Instructions
Olive (including those grown for oil production)	Rhizoctonia spp. Pythium spp. Fusarium spp. Verticillium spp. Phytophthora spp.		 <u>All Soil Surface (Drench), Shanked-In, Injecte</u> and In-Furrow Applications: Mix 1 qt [(32 fl oz)] to 6 qt [(192 fl oz)] of Sonata ASG in appropriate amount of water per acre. Use highe application rates when the weather conditions ar expected to be conducive to disease development, the field has a history of disease problems, or minimum/low till programs are in place. Sonata ASG can be mixed with chemical fungicides registered for soil applications. Soil Surface (Drench) Applications at Planting Use at planting, seeding or transplant. Apply finishe spray mixture at a rate to thoroughly soak the growin media through the root zone, as a drench or directe spray using hand-held, mechanical or motorize spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or dri irrigation systems. Shanked-In and Injected Applications: Sonata ASO can be shanked-in or injected into th
Peanut (including those grown for oil production)	Rhizoctonia spp. Pythium spp. Fusarium spp. Verticillium spp. Verticillium spp. Phytophthora spp. Macrophomina spp. Sclerotium rolfsii Aspergillus spp. Cylindrocladium Black Rot	1 – 6	
Pome Fruit Apple Crabapple Pear Quince Mayhaw and other pome fruit	Rhizoctonia spp. Pythium spp. Fusarium spp. Verticillium spp. Phytophthora spp.		 soil prior to-, at-, or post-planting/transplanting of crops alone or with most types of liquid nutrients. In-Furrow Applications: For in-furrow applications, apply Sonata ASO as an in-furrow spray in the appropriate amount of water per acre for the crop at planting. Mount the spray nozzle so the spray is directed in the furrow just before the seed are covered. Soil Surface (Drench) Applications at Any Stage
			of Growth: Apply the finished spray mixture to the surface of the soil as a drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems. When applying as a spray (e.g., via hydraulic nozzles at low volumes), it is important to irrigate to move the material into the seed, root or transplant zone. Normal operation of overhead sprinklers and drip irrigation systems are sufficient for effective applications. Optimal performance is obtained with preventative treatments repeated every 21 to 28 days throughout the growing cycle.

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Crops	Disease	Rate (qt/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 vegetables including those grown for seed production	Rhizoctonia spp. Pythium spp. Fusarium spp. Verticillium spp. Phytophthora spp. Clubfoot Plasmodiophora brassicae Macrophomina spp. Aphanomyces spp. Sclerotium rolfsii Erwinia spp. Colletotrichum spp. Colletotrichum spp. Common Scab Streptomyces scabies (Suppression Only)	1-6	All Soil Surface (Drench), Shanked-In, Injected and In- Furrow Applications: Mix 1 qt [(32 fl oz)] to 6 qt [(192 fl oz)] of Sonata ASO in appropriate amount of water per acre. Use higher application rates when the weather conditions are expected to be conducive to disease development, if the field has a history of disease problems, or if minimum/low till programs are in place. Sonata ASO can be mixed with chemical fungicides registered for soil applications. Soil Surface (Drench) Applications at Planting: Use at planting, seeding or transplant. Apply finished spray mixture at a rate to thoroughly soak the growing media through the root zone, as a drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems. Shanked-In and Injected Applications: Sonata ASO can be shanked-in or injected into the soil prior to-, at-, or post-planting/transplanting of crops alone or with most types of liquid nutrients. In-Furrow Applications: For in-furrow applications, apply Sonata ASO as an in- furrow spray in the appropriate amount of water per acre for the crop at planting. Mount the spray nozzle so the spray is directed in the furrow just before the seed are covered.
Stone Fruit Apricot Cherry Nectarine Peach Plum Prune and other stone fruit Tobacco	Rhizoctonia spp. Pythium spp. Fusarium spp. Verticillium spp. Phytophthora spp.		Soil Surface (Drench) Applications at Any Stage of Growth: Apply the finished spray mixture to the surface of the soil as a drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems. When applying as a spray (e.g., via hydraulic nozzles at low volumes), it is important to irrigate to move the material into the seed, root or transplant zone. Normal operation of overhead sprinklers and drip irrigation systems are sufficient for effective applications. Optimal performance is obtained with preventative treatments repeated every 21 to 28 days throughout the growing cycle. <u>For Colletotrichum spp. Uses:</u> Use a foliar fungicide to control stem lesions once plants have emerged.

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Crops	Disease	Rate (qt/acre)	Application Instructions
Strawberry	 Angular Leaf Spot Xanthomonas fragariae Black Root Rot (complex) Common Leaf Spot Ramularia tulasnei Leather Rot Phytophthora cactorum Macrophomina spp. Phytophthora Crown Rot Phytophthora spp. Red Stele Phytophthora fragariae Verticillium Wilt Verticillium dahlia Rhizoctonia spp. Fusarium spp. 	1-6	All Soil Surface (Drench), Shanked-In, Injected and In-Furrow Applications: Mix 1 qt [(32 fl oz)] to 6 qt [(192 fl oz)] of Sonata ASO in appropriate amount of water per acre. Use higher application rates when the weather conditions are expected to be conducive to disease development, if the field has a history of disease problems, or if minimum/low till programs are in place. Sonata ASO can be mixed with chemical fungicides registered for soil applications. Soil Surface (Drench) Applications at Planting: Use at planting, seeding or transplant. Apply finished spray mixture at a rate to thoroughly soak the growing media through the root zone, as a drench or directed spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems. Shanked-In and Injected Applications: Sonata ASO can be shanked-in or injected into the soil prior to-, at-, or post-planting/transplanting of crops alone or with most types of liquid nutrients. In-Furrow Applications: For in-furrow applications, apply Sonata ASO as an in-furrow spray in the appropriate amount of water per acre for the crop at planting. Mount the spray nozzle so the spray is directed in the furrow just before the seed are covered. Soil Surface (Drench) Applications at Any Stage of Growth: Apply the finished spray mixture to the surface of the soil as a drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using hand-held, mechanical or motorized spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems. When applying as a spray (e.g., via hydraulic nozzles at low volumes), it is important to irrigate to move the material into the seed, root or transplant zone. Normal operation of overhead sprinklers and drip irrigation systems are sufficient for effective applications. Optimal performance is obtained with preventative treatments repeated every

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Crops	Disease	Rate (qt/acre)	Application Instructions
Berries Blueberry Blackberry Raspberry Loganberry Huckleberry Cranberry Elderberry Currant and other berry crops Grape	Armillaria Root Rot Armillaria spp.Verticillium Wilt Verticillium dahliaPhytophthora Root Rot Phytophthora spp.Oak Root Fungus Armillaria Root Rot Armillaria mellea	1-6	All Soil Surface (Drench) Applications: Mix 1 qt [(32 fl oz)] to 6 qt [(192 fl oz)] of Sonata ASO in the appropriate amount of water per acre. Use higher application rates when the weather conditions are expected to be conducive to disease development, if the field has a history of disease problems, or if minimum/low till programs are in place. Sonata ASO can be mixed with chemical fungicides registered for soil applications. Soil Surface (Drench) Applications At Planting: Use at planting, seeding or transplant. Apply finished spray mixture, at a rate to thoroughly soak the growing media through the root zone, as a drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems. Soil Surface (Drench) Applications At Any Stage of Growth: Apply the finished spray mixture to the surface of the soil as a drench or directed spray using hand- held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems. When apply the finished spray mixture to the surface of the soil as a drench or directed spray using applicable sprinkler or drip irrigation systems. When applying as a spray (e.g., via hydraulic nozzles at low volumes), it is important to irrigate to move the material into the seed, root or transplant zone. Normal operation of overhead sprinklers and drip irrigation systems are sufficient for effective applications. Optimal performance is obtained with preventative treatments repeated every 21 to 28 days throughout the growing cycle.

FOR USE ON ORNAMENTALS, TREES, SHRUBS, FLOWERS, BEDDING PLANTS, TROPICAL PLANTS and FRUITS – [(Bananas, Mangos, Papaya),] -[Agricultural Use], [Commercial], [Residential Use]

Sonata 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 Sonata ASO in a tank mix or rotational program with other registered fungicides.

[As appropriate for uses:]

Sonata 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] and shade house environments.

Sonata 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 (greenhouses, shade houses, nurseries, indoors, outdoors, containers or field).

Crops	Disease	Rate qt/100 -300 gallons spray mix	Application Instructions
Ornamentals Trees Shrubs Flowering Plants Tropical Plants and Fruits Fields, Outdoors, Indoors, Greenhouses, Nurseries, Shadehouses Annuals Perennials Bedding plants Potted flowers Cut flowers Foliage plants Deciduous shrubs	Anthracnose Colletotrichum spp. Bacteria Erwinia spp. Pseudomonas spp. Xanthomonas spp. Black Spot of Rose Diplocarpon rosea Botrytis Botrytis cinerea Downy Mildew Peronospora spp. Leaf Spots Alternaria spp. Cercospora spp. Entomosporium spp. Helminthsporium spp. Myrothecium spp. Septoria spp. Septoria spp.	2-4	 Begin applications when conditions favor disease development but before the onset of disease symptoms. Repeat application on 7- to 14-day intervals or as needed. Thorough coverage is important. A surfactant may be used to improve coverage. For Suppression of Needle Rust - Begin applications when conditions favor disease development but before the onset of disease symptoms. Repeat application on 7- to 14-day intervals or as needed. Thorough coverage is important. A surfactant may be used to improve coverage.
Tropical foliage Bananas, Mangos, Papaya	Oidium spp. Podosphaera spp. Sphaerotheca spp. Phytophthora spp Rust		
Container grown plants	Puccinia spp. Needle Rust Melamspora occidentalis Scab Venturia spp.		

STORAGE AND DISPOSAL

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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: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or disposal program (often such programs are run by state or local governments or by industry).

CONTAINER DISPOSAL: [For 1.0-gallon, 2.5-gallon, 3-gallon, or 5-gallon plastic containers — Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances. If burned, stay out of smoke.]

[For 30-gallon plastic containers - Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances. If burned, stay out of smoke.]

[For 110-gallon or larger returnable mini-bulk containers – Return empty container for reuse. Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances. If burned, stay out of smoke.]

[Batch codes are sticker applied to the front panel of every label on every product container]

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CONDITIONS FOR SALE AND WARRANTY IMPORTANT: READ BEFORE USE

Read the Directions for Use, the Conditions, Disclaimer of Warranties, Limitation of Liability, and License set forth below. If the following terms are not acceptable, please return the product immediately for a refund of the purchase price. Otherwise, use by buyer or any other user constitutes acceptance of the following terms.

Conditions: The directions for use of this product are believed to be adequate and must be followed carefully. It is impossible, however, to eliminate all risks inherently associated with the use of this product. Weather or crop conditions; the presence of other materials; the manner of use or application; any use, storage or handling that is contrary to the Directions for Use; and other such factors that are beyond the control of AgraQuest may cause ineffectiveness or other unintended consequences. User assumes all such risks.

Disclaimer of Warranties: AgraQuest warrants that this product conforms to the biological or chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, AGRAQUEST MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OR GUARANTY, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY OR NONINFRIGNEMENT.

Limitation of Liability: To the extent consistent with applicable law, AgraQuest or the seller disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product, and the buyer and user waive any right that they may have to such damages. Except to the extent prohibited by applicable law, AgraQuest or seller's exclusive liability and the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or, at AgraQuest's election, the replacement of product.

License and Prohibition of Re-Sale: AgraQuest hereby grants buyer or user the right under the patents listed on the label to use this product solely in accordance with the label Directions for Use for applications to plants, including plant parts such as seed, or to soil, where the treated plants or the plants grown in treated soil are intended for sale, in whole or in part, or are intended for public or personal use. The buyer or user does not have the right to de-formulate this product or to isolate and/or culture its active ingredient for any purpose. Unless specifically granted in writing, the buyer or user does not have the right to re-sell this product in any form; e.g., this product may not be re-sold in combination with other products or other active ingredients or in a diluted form, unless combinations are prepared and delivered to the end-user for immediate application to plants, plant parts or soil solely in accordance with the label Directions for Use.

AgraQuest and Seller offer this Product and buyer and user accept it subject to the foregoing Conditions, Disclaimer of Warranties, Limitation of Liability and License, which may only be modified by a written document signed by a duly authorized representative of AgraQuest.

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Sonata® ASO

Biofungicide Sub-label B SEED TREATMENT

For Commercial Use

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SONATA[®] ASO

[Alternate Product Name: Sonata[®]] [Alternate Product Name: Ballad[®] Plus]

[OPTIONAL/ALTERNATE STATEMENT: "NOP LOGO: FOR ORGANIC PRODUCTION"] [OPTIONAL/ALTERNATE STATEMENT: "NOP LOGO: CAN BE USED FOR ORGANIC PRODUCTION"] [USE IN APPLICATION MIXES WITH OTHER COMMERCIAL SEED TREATMENT PRODUCTS]

ACTIVE INGREDIENT:

Bacillus pumilus strain QST 2808
(spores, solids, solubles and water)*
OTHER INGREDIENTS 98.62%
Total

*Contains a minimum of 1×10^9 cfu/g.

KEEP OUT OF REACH OF CHILDREN

EPA Reg. No. 69592-13

EPA Est. No .:

01	02	03	04	05
69592-	67545-	66728-	37429-	69592-
MEX-1	AZ-1	GA-2	GA-2	CA-1

[Superscript corresponds to last two digits of container lot number.]

AgraQuest, Inc. 1540 Drew Avenue Davis, California 95618 U.S. Patent No. 6,245,551 and 6,586,231 on QST 2808 strain of *Bacillus pumilus* [Net Contents:] [See attached label booklet for First Aid, Precautionary Statements, Directions for Use, and Storage and Disposal Instructions and Conditions for Sale and Warranty.] [Peel back tab for First Aid, Precautionary Statements, Directions for Use, Storage and Disposal Instructions and Conditions For Sale and Warranty.] USE OF PRODUCT INDICATES ACCEPTANCE OF "CONIDTIONS FOR SALE AND WARRANTY"





SONATA ASO EPA MASTER LABEL Page 52 of 63 **PRECAUTIONARY STATEMENTS** 53/64

HAZARDS TO HUMANS & DOMESTIC ANIMALS

Harmful if inhaled. Avoid breathing spray mist. Avoid contact with skin or clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

FIRST AID				
	Move person to fresh air.			
IF INHALED:	 If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible. 			
	 Call a poison control center or doctor for further treatment advice. 			
	Take off contaminated clothing.			
IF ON SKIN OR CLOTHING:	 Rinse skin immediately with plenty of water for 15-20 minutes. 			
	Call a poison control center or doctor for further treatment advice.			
Have the product container for treatment.	or label with you when calling a poison control center, doctor, or going			

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves

Mixers/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

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

[OPTIONAL: ENGINEERING CONTROLS]

[Optional Statement: 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.]

[IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.]

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USER SAFETY RECOMMENDATIONS

Users should:

- Remove clothing/PPE immediately if pesticide gets 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

For terrestrial uses: 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 washwater or rinsate.

EMERGENCY INFORMATION

For emergencies such as leaks or spills, call 24-hour toll-free CHEMTREC hotline at 1.800.424.9300.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

For Seed Treatment Use: [Not for use on agricultural establishments in hopper-box, planter-box, slurry-box or other seed treatment applications at or immediately before planting.] The U.S. Environmental Protection Agency requires the following statements on containers containing seed treated with Sonata ASO:

- Store treated seed away from food and feedstuff
- Do not allow children, pets or livestock to have access to treated seeds.
- Treated seeds exposed on soil surface may be hazardous to wildlife.
- Cover or collect treated seeds spilled during loading and planting (such as in row ends).
- Dispose of all excess treated seed by burying seed away from bodies of water.
- · Dispose of seed packaging or containers in accordance with local requirements.

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.

Keep unprotected persons out of treated areas until sprays have dried.

GENERAL USE INFORMATION

Sonata ASO is a broad spectrum biofungicide seed treatment for the prevention, suppression and control of soil borne diseases that attack root systems. Sonata ASO enhances germination and plant growth by suppressing soil diseases such as those caused by *Rhizoctonia, Pythium, Fusarium, Aspergillus* and *Phytophthora*. Additionally, Sonata ASO has been shown to increase nodulation of nitrogen-fixing bacteria when used on many legumes.

DO NOT USE SONATA ASO AS A FOLIAR APPLICATION UNLESS SPECIFIED ON THIS LABEL.

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INTEGRATED PEST MANAGEMENT (IPM)

Integrate Sonata ASO 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.

USE RATE DETERMINATION

Carefully read and follow all label directions, use rates and restrictions. Prepare only the amount of product solution required to treat the amount of seed required.

IMPORTANT: READ CONDITIONS FOR SALE AND WARRANTY BEFORE USE

APPLICATION INSTRUCTIONS

Sonata ASO as a seed treatment may be applied as a water-based slurry alone or with other registered seed treatment insecticides and fungicides through standard slurry or mist commercial seed treatment equipment. Note: This product does not contain colorant. To comply with 40 CFR §153.155, all seed treated commercially with this product must be colored with an EPA approved dye or colorant or a suitable color to prevent accidental use as food for man or feed for animals. Under moderate to severe disease pressure, for improved performance, increase rates or use Sonata ASO in a program with other registered fungicides for seed treatment.

MIXING INSTRUCTIONS

MIXING: Sonata ASO may be mixed with other registered pesticides to enhance seed germination. This product cannot be mixed with any product with prohibition against such mixing. When mixing Sonata ASO with other registered pesticides, always read and follow all use directions, restrictions, and precautions of both Sonata ASO and the mix partner(s). Use of the resulting mix must be in accordance with the more restrictive label limitations and precautions. Do not exceed label dosage rates.

COMPATIBILITY: Do not combine Sonata ASO in the slurry with pesticides, or fertilizers if there has been no previous experience or use of the combination to show it is physically compatible, effective and non-injurious under your use conditions.

Sonata ASO is compatible with many commonly used pesticides but has not been fully evaluated with all of these.

For Use as a Seed Treatment:

To mix when using with other chemical insecticide or fungicide seed treatments: first add the chemical insecticides or fungicides to the slurry mix with approximately ½ of the required water. Slowly add the Sonata ASO to the slurry until a suspension is obtained. Add the remainder of the water and maintain continuous agitation. **Do not store mixed slurries for more than 4 hours.**

See application rate tables for more detailed application instructions.

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Seed Crops	Rates of Sonata ASO for S Disease Suppressed	Rate	Application Instructions
		fl oz per 100 lb	
		of seed	
Artichoke			For suppression of seedling and root
	Pythium spp.	0.1 – 3	diseases apply 0.1 to 3 fl oz per 100
	Verticillium dahliae		lb of seed.
Asparagus			For suppression of seedling and roo
	Fusarium spp.	0.1 – 3	diseases apply 0.1 to 3 fl oz per 100
	Phytophthora spp.		lb of seed.
Brassica			For suppression of seedling and roo
	Aphonomyces spp.	0.1 – 3	diseases apply 0.1 to 3 fl oz per 100
Broccoli	Fusarium spp.	×	lb of seed.
Cabbage	Phytophthora spp.		
Cauliflower	Plasmodiophora		
Brussels Sprouts	brassicae		
Collards	Pythium spp.		
Kale	Rhizoctonia spp.		
Mustard Greens	Sclerotinia spp.		
Kohlrabi	Verticillium spp.		
and other brassica			
crops			
Bulb Vegetables			For suppression of seedling and roo
	Aphonomyces spp.	0.1 – 3	diseases apply 0.1 to 3 fl oz per 100
Onion	Fusarium spp.		lb of seed.
Garlic	Phoma spp.		
Shallots	Phytophthora spp.		
and other bulb	Pythium spp.		
vegetables	Plasmodiophora spp.		
including those grown	Rhizoctonia spp.		
for seed production	Sclerotinia spp.		
	Verticillium spp.		
Canola		0.0 5	For suppression of seedling and root
Rapeseed	Alternaria spp.	0.3 – 5	diseases apply 0.3 to 5 fl oz per 100
	Fusarium spp.		lb of seed.
	Leptosphaeria spp.		
	Pythium spp.		
	Rhizoctonia spp.		
	Sclerotinia spp.		
Corn	-	0.0 5	For suppression of seedling and root
0.0.1	Fusarium spp.	0.2 – 5	diseases apply 0.2 to 5 fl oz per 100
Corn, Sweet	Macrophomina spp.		lb of seed
Corn, Feed	Pythium spp.		
Corn, Field	Rhizoctonia spp.		
Corn, Fuel			
Corn, Pop			
Cotton	Europaine and	0.2 . 2	For suppression of seedling and roo
0.11-0.01-01-01	Fusarium spp.	0.2 – 3	diseases, apply 0.2 to 3 fl oz per 100 lb of seed.
Cotton, Short Staple	Macrophomina spp.		ib of seed.
Cotton, Long Staple	Phoma spp.		
Cotton, Upland Cotton, Pima	Pythium spp.		
Cotton Pima	Rhizoctonia spp.	1	1

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Seed Crops	Disease Suppressed	Rate fl oz per 100 lb of seed	Application Instructions
Cucurbits Cucumber Cantaloupe Melon Muskmelon Squash Watermelon and other cucurbit crops	Acremonium spp. Fusarium spp. Macrophomina spp. Phytophthora spp. Pythium spp. Rhizoctonia spp. Thielaviopsis spp. Verticillium spp.	0.1 – 5	For suppression of seedling and root diseases apply 0.1 to 5 fl oz per 100 lb of seed.
Fruiting Vegetables Pepper Tomato Eggplant Ground Cherry Tomatillo Okra and other fruiting vegetables	Fusarium spp. Phytophthora spp. Pythium spp. Rhizoctonia spp. Verticillium spp.	0.1 – 3	For suppression of seedling and root diseases apply 0.1 to 3 fl oz per 100 lb of seed.
Leafy Vegetables Lettuce Celery Spinach Parsley Radicchio and other leafy vegetables crops including those grown for seed production	Fusarium spp. Phoma spp. Phytophthora spp. Pythium spp. Rhizoctonia spp. Rhizomonas spp. Sclerotinia spp. Verticillium spp.	0.1 – 3	For suppression of seedling and root diseases apply 0.1 to 3 fl oz per 100 lb of seed.

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Seed Crops	Disease Suppressed	Rate	Application Instructions
		fl oz per 100 lb	
Legume Vegetables Beans Sprouts Bean, Adzuki Bean, Black Blue Lake Bean, Broad Bean, Broad Bean, Butter Bean, Cacao Bean, Coffee Bean, Coffee Bean, Coffee Bean, French Bean, French Bean, French Bean, Garbanzo Bean, Garbanzo Bean, Garbanzo Bean, Garbanzo Bean, Garbanzo Bean, Garbanzo Bean, Garbanzo Bean, Garbanzo Bean, Garbanzo Bean, Kidney Bean, Lima Bean, Nung Bean, Navy Bean, Navy Bean, Pea Bean, Pinto Bean, Pinto Bean, Red Bean, String Bean, Sugar Bean, Sugar Bean, Soy Bean, Snap and other fresh, dry, vine, fuel and forage legume vegetables	Alternaria spp. Anthracnose spp. Ascochyta Blight Fusarium spp. Phytophthora spp. Pythium spp. Rhizoctonia spp.	of seed 0.1 – 3	For suppression of seedling and root diseases apply 0.1 to 3 fl oz per 100 lb of seed. For improvement of nodulation by <i>Rhizobium</i> , apply at 0.1 to 2 fl oz per 100 lb of seed.
grown for seed			
Legume Vegetable Foliage Vegetable, grain, seed and pod, fodder and forage Legume Fuel	Aphanomyces spp. Fusarium spp. Phytophthora spp. Pythium spp. Rhizoctonia spp. Verticillium spp.	0.1 – 3	For suppression of seedling and root diseases apply 0.1 to 3 fl oz per 100 lb of seed.

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Seed Crops	Disease Suppressed	Rate fl oz per 100 lb of seed	Application Instructions
Grain Cereal Crops Amaranth, Grain Sorghum, Grain Barley, Grain Oat, Grain Wheat, Grain Lupine Grain	Cochliobus spp. Fusarium spp. Macrophomina spp. Penicilium spp. Pythium spp. Rhizoctonia spp. Stagonospora spp. Tilletia spp. Ustilago spp.	0.1 – 3	For suppression of seedling and root diseases apply 0.1 to 3 fl oz per 100 lb of seed.
Peanut	Aspergillus spp. Fusarium spp. Phytophthora spp. Pythium spp. Rhizoctonia spp. Rhizopus spp. Sclerotinia spp.	0.2 – 4	For suppression of seedling and root diseases and for improvement of nodulation by Rhizobium, apply 0.2 to 4 fl oz per 100 lb of seed.
Rice Rice, Indian Rice, sweet Rice, waxy Rice, wild	Fusarium spp. Helminthosporium spp. Pythium spp. Rhizoctonia spp.	0.1 – 3	For suppression of seedling and root diseases apply 0.1 to 3 fl oz per 100 lb of seed.

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Seed Crops	Disease Suppressed	Rate fl oz per 100 lb of seed	Application Instructions
Soybean	Fusarium spp. Penicilium spp. Phytophthora spp. Pythium spp. Rhizoctonia spp.	0.1 – 3	For suppression of seedling and root diseases or improvement of nodulation by Bradyrhizobium, apply 0.1 to 3 fl oz per 100 lb of seed.
Beet, Sugar	Aphanomyces spp. Fusarium spp. Pythium spp. Rhizoctonia spp.	0.1 – 3	For suppression of seedling and root diseases apply 0.1 to 3 fl oz per 100 lb of seed.
Sunflower	Fusarium spp. Peronospora spp. Phytophthora spp. Plasmopara spp. Pythium spp. Rhizoctonia spp.	0.1 – 3	For suppression of seedling and root diseases apply 0.1 to 3 fl oz per 100 lb of seed.
Forage, Fuel and Fodder Grass Alfalfa Bamboo (Giant, Cane) Bamboo (Southern, Cane) Bahiagrass Grass, Pasture, Forage Grass, Pasture, Hay Grass, Pasture, Silage Grass, Rangeland, Forage Grass, Rangeland, Hay Grass, Rangeland, Silage Grass, Rangeland, Silage Grass, Rangeland, Silage Grass, Rangeland, Silage Grass, Rangeland, Silage Grass, Rangeland, Silage Grass, Straw Savannah Grass, Straw Switch Sudan grass	Fusarium spp. Pythium spp. Rhizoctonia spp.	0.1 - 3	For suppression of seedling and root diseases apply 0.1 to 3 fl oz per 100 lb of seed.

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Crops	Disease Suppressed	Rate fl oz per 100 lb of seed	Application Instructions
Grass Bluegrass Bentgrass Bermudagrass Dichondra Fescue Orchardgrass Poa Annua St. Augustine Rye grass Zoysia Mixtures and other grass or ornamental turf seeds	Aphanomyces spp. Fusarium spp. Leptosphaeria spp. Pythium spp. Rhizoctonia spp.	0.1 – 3	For suppression of seedling and root diseases apply 0.1 to 3 fl oz per 100 lb of seed. Sonata ASO can be used for all types of grass seeds including those produced for Turf, Sod, Lawns, and Golf Courses.
Oil Seed Crops Canola Castor Coconut Cotton Flax Oil Palm Olive Peanut Rapeseed Safflower Sesame Sunflower Soybeans and other oil seed crops including those grown for seed production	Fusarium spp. Leptosphaeria spp. Phytophthora spp. Plasmodiophora brassicae Pythium spp. Rhizoctonia spp. Sclerotinia spp. Thielaviopsis spp. Verticillium spp.	0.1 – 3	For suppression of seedling and root diseases apply 0.1 to 3 fl oz per 100 lb of seed.

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Applicatio	n Rates of Sonata ASO f	or Seed Treatmen	t For Ornamental Crops
Crops	Disease Suppressed	Rate fl oz per 100 lb of seed	Application Instructions
Ornamental Plant Seeds Annual and Perennial Flower, Herb and other Vegetable Seeds Forestry Seeds	Alternaria spp. Anthracnose spp. Aphanomyces spp. Ascochyta rabiei Aspergillus spp. Fusarium spp. Leptosphaeria spp. Macrophomina spp. Phoma spp. Phytophthora spp. Phytophthora spp. Phytophthora spp. Rhizoctonia spp. Rhizopus spp. Sclerotinia spp. Sphacelotheca spp. Thielaviopsis spp. Ustilago spp. Verticillium spp.	0.1 - 10	For suppression of seedling and root diseases, apply 0.1 to 10 fl oz per 100 lb of seed. Adjust rate accordingly to provide good coverage. Larger seeds, because of reduced surface area, require less product per 100 lb than smaller seeds.

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STORAGE AND DISPOSAL

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: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or disposal program (often such programs are run by state or local governments or by industry).

CONTAINER DISPOSAL: [For 1.0-gallon, 2.5-gallon, 3-gallon, or 5-gallon plastic containers — Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances. If burned, stay out of smoke.]

[For 30-gallon plastic containers - Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances. If burned, stay out of smoke.]

[For 110-gallon or larger returnable mini-bulk containers – Return empty container for reuse. Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances. If burned, stay out of smoke.]

[Batch codes are sticker applied to the front panel of every label on every product container]

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