

34704-1068

7/31/2014
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

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OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

JUL -3 1 2014

Robert Avalos
Loveland Products, Inc.
P.O. Box 1286
Greeley, CO 80632-1286

Subject: Label Amendment – Fast track amendment to add Bean (Glycine max),
Soybean, and Immature Seed (edamame)
Product Name: Satori Fungicide
EPA Registration Number: 34704-1068
Application Date: July 3, 2014
Decision Number: 493246

Dear Mr. Avalos,

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). If you have any questions, please contact Shaunta Hill by phone at (703) 347-8961 or via email at hill.shaunta@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "Shaja B. Joyner".

Shaja B. Joyner, Product Manager 20
Fungicide Branch
Registration Division (7505P)
Office of Pesticide Programs

Enclosure



Satori Fungicide

GROUP 11 FUNGICIDE

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Broad spectrum fungicide for control of plant diseases.

ACTIVE INGREDIENT:

Azoxystrobin:

methyl (E)-2-[2-[6-(2-cyanophenoxy) pyrimidin-4-yloxy]phenyl]-3-methoxyacrylate 22.9%

OTHER INGREDIENTS 77.1%
TOTAL 100.0%

Contains 2.08 pounds of active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional precautionary statements and directions for use inside booklet.

FIRST AID	
If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.</p>	

ACCEPTED
JUL 31 2014
 Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg No. 34704-1068

EPA REG. NO. 34704-1068

EPA EST. NO. 34704-MS-001

NET CONTENTS 2.5 GAL (9.46 L)

EXP 07/14 Soybean

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PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Wear long-sleeved shirt and long pants, socks and shoes and chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber.

Personal Protective Equipment (PPE)

Some materials that are chemically resistant to this product are listed below. If you want more options follow the instructions for Category A on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber
- Shoes plus socks

User Safety Requirements

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

Engineering Controls

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the 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 breakdown.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Wash thoroughly with soap and water after handling.
- 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

Azoxystrobin is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Azoxystrobin can be persistent for several months or longer.

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment, washwater or rinsate.

GROUND WATER ADVISORY:

Azoxystrobin and a degradate of azoxystrobin are known to leach through soil to ground water under certain conditions as a result of label use. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

SURFACE WATER ADVISORY:

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of azoxystrobin and a degradate of azoxystrobin from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

Notify State and/or Federal authorities and Loveland Products, Inc. immediately if you observe any adverse environmental effects due to use of this product.

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DIRECTIONS FOR USE

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

Use of Satori® Fungicide through airblast application equipment on Grapes is prohibited in the following townships and boroughs of Erie County, Pennsylvania:

North East, Harborcreek, Lawrence Park, Erie, Presque Isle, Millcreek, Fairview, Girard and Springfield.

This prohibition is intended to help eliminate phytotoxicity problems with Apples observed in this geographic location.

FAILURE TO FOLLOW THE USE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR DISEASE CONTROL.

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 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), notification to workers, 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.

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
- Chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber
- Shoes plus socks

PRODUCT USE PRECAUTIONS

FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, AND/OR ILLEGAL RESIDUES.

ATTENTION

- Satori Fungicide is extremely phytotoxic to certain Apple varieties.
- AVOID SPRAY DRIFT. Extreme care must be used to prevent injury to Apple trees (and Apple fruit).
- DO NOT spray Satori Fungicide where spray drift may reach Apple trees.
- DO NOT spray when conditions favor drift beyond area intended for application. Conditions which may contribute to drift include thermal inversion, wind speed and direction, sprayer nozzle/pressure combinations, spray droplet size, etc. Contact your State extension agent for spray drift prevention guidelines in your area.
- DO NOT use spray equipment which has been previously used to apply Satori Fungicide to spray Apple trees. Even trace amounts can cause unacceptable phytotoxicity to certain Apple and Crabapple varieties.
- AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

PRODUCT INFORMATION

Satori Fungicide is a broad spectrum, preventative fungicide with systemic and curative properties that can be used for the control of many important plant diseases. Satori Fungicide may also improve the yield and/or quality of the crop even under limited disease pressure due to plant performance characteristics. These additional benefits are due to positive effects on plant physiology. The effects may vary according to factors such as the crop, crop hybrid, or environment. Satori Fungicide may be applied as a foliar spray in alternating spray programs or in tank mixes with other registered crop protection products. All applications must be made according to the use directions that follow.

Restrictions: Do not use in greenhouses.

PRODUCT USE INSTRUCTIONS

Application: Thorough coverage is necessary to provide good disease control. Make no more spray solution than is needed for application. Avoid spray overlap, as crop injury may occur.

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Adjuvants: Adjuvants such as Franchise® and Liberate® may be used to improve consistency and performance of this product. See specific crop application instructions for information regarding use of adjuvants.

Efficacy: Under certain conditions conducive to extended infection periods, use another registered fungicide for additional applications if maximum amount of Satori Fungicide has been used. If resistant isolates to Group 11 fungicides are present, efficacy can be reduced for certain diseases. The higher rates in the rate range and/or shorter spray intervals may be required under conditions of heavy infection pressure, with highly susceptible varieties, or when environmental conditions are conducive to disease.

INTEGRATED PEST (DISEASE) MANAGEMENT

Integrate this product into an overall disease and pest management strategy whenever the use of a fungicide is required. Follow cultural practices known to reduce disease development, including selection of varieties with disease tolerance, removal of plant debris in which inoculum overwinters, and proper timing and placement of irrigation. Consult your local agricultural authorities for additional IPM strategies established for your area. Satori Fungicide may be used in State Agricultural Extension advisory (disease forecasting) programs which indicate application timing based on environmental factors favorable for disease development.

Crop Tolerance: Plant tolerance has been found to be acceptable for all crops on the label, however, not all possible tank-mix combinations have been tested under all conditions. When possible, test the combinations on a small portion of the crop to ensure that a phytotoxic response will not occur as a result of application. See precautions regarding Apple phytotoxicity.

RESISTANCE MANAGEMENT

Satori Fungicide (azoxystrobin) is a Group 11 fungicide. The mode of action for Satori Fungicide is the inhibition of the QoI (quinone outside) site within the electron transport system [Group 11]. Fungal pathogens can develop resistance to products with the same mode of action when used repeatedly. Because resistance development cannot be predicted, the best practice is to conform to resistance management strategies established for the crop and use area. Consult your local or State agricultural authorities for resistance management strategies that are complementary to those in this label. Resistance management strategies may include alternating and/or tank-mixing with products having different modes of action or limiting the total number of applications per season. Loveland Products, Inc. encourages responsible resistance management to ensure effective long-term control of the fungal diseases on this label. Follow the crop specific resistance management directions in the directions for use.

If no resistance direction on number of applications is specified in the directions for use, follow the instructions in the table below.

If planned total number of fungicide applications per crop is:	1	2	3	4	5	6	7	8	9	10	11	12
Solo QoI fungicide sprays	1	1	2	2	2	2	2	3	3	3	3	4
QoI fungicide sprays in mixture (tank-mix or formulated)	1	2	2	2	2	3	3	4	4	5	5	6

In situations requiring multiple sprays, develop season long spray programs for Group 11 (QoI) fungicides. In crops where 2 sequential Group 11 fungicide applications are made, alternate with 2 or more applications of a fungicide that is not in Group 11. If more than 12 applications are made, observe the following guidelines:

- When using a QoI fungicide as a solo product, the number of applications must be no more than 1/3 (33%) of the total number of fungicide applications per season.
- For QoI mixes in programs in which tank mixes or premixes of QoI with mixing partners of a different mode of action are utilized, the number of QoI containing applications must be no more than 1/2 (50%) of the total number of fungicide applications per season.
- In programs in which applications of QoI are made with both solo products and mixtures, the number of QoI containing applications must be no more than 1/2 (50%) of the total number of fungicide applications per season.

If a Group 11 fungicide is applied to the seed or soil, do not make another application with a Group 11 fungicide for at least 3 weeks.

Rotational Crop Restrictions

The following crops may be planted at the specified interval following application of Satori Fungicide.

Crop Rotational Interval

	Plant back interval
Leafy vegetables (except Brassica) group	36 days
Brassica, Leafy greens subgroup	36 days
Vegetables; Root subgroup, Tuberous and Corm subgroup and Leaves of Root and Tuber group	36 days
Buckwheat, Millet, Oats, and Rye	12 months
All other crops with Azoxystrobin registered uses	0 days

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Spray Drift Management

To avoid spray drift, do not apply when conditions favor drift beyond the target area. The interaction of many equipment and weather related factors determine the potential for spray drift. AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR AND THE GROWER.

ATTENTION

- Satori Fungicide is extremely phytotoxic to certain Apple varieties.
- AVOID SPRAY DRIFT. Extreme care must be used to prevent injury to Apple trees (and Apple fruit).
- DO NOT spray Satori Fungicide where spray drift may reach Apple trees.
- DO NOT spray when conditions favor drift beyond area intended for application. Conditions which may contribute to drift include thermal inversion, wind speed and direction, sprayer nozzle/pressure combinations, spray droplet size, etc. Contact your State extension agent for spray drift prevention guidelines in your area.
- DO NOT use spray equipment which has been previously used to apply Satori Fungicide to spray Apple trees. Even trace amounts can cause unacceptable phytotoxicity to certain Apple and Crabapple varieties.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

Do not apply when weather conditions favor drift from treated areas to non-target aquatic habitat.

MIXING AND APPLICATION METHODS

Spray Equipment

Satori Fungicide may be applied with all types of spray equipment commonly used for making ground and aerial applications. Proper adjustments and calibration of spraying equipment to give good canopy penetration and coverage is essential for good disease control.

Nozzles

- Equip sprayers with nozzles that provide accurate and uniform application.
- Use nozzles that are the same size and uniformly spaced across the boom.
- Calibrate sprayer before use.
- It is suggested that screens be used to protect the pump and to prevent nozzles from clogging.
- Use screens placed on the suction side of the pump that are *16-mesh or coarser*.
- Do not place a screen in the recirculation line.
- Use 50-mesh or coarser screens between the pump and boom, and where required, at the nozzles.
- Check nozzle manufacturer's specifications.

Pump

- Use a pump with capacity to:
 1. Maintain 35 to 40 psi at nozzles
 2. Provide sufficient agitation in tank to keep mixture in suspension - this requires recirculation of 10% of tank volume per minute.
- Use a jet agitator or liquid sparge tube for agitation.
- Do not air sparge.

For more information on spray equipment and calibration, consult sprayer manufacturers and state agricultural agency for advice. For specific local directions and spray schedules, consult your state agricultural agency for advice.

Mixing Instructions

- Satori Fungicide is a suspension concentrate (SC) formulation.
- Prepare no more spray mixture than is required for the immediate operation.
- Thoroughly clean spray equipment before using this product.
- Agitate the spray solution before and during application.
- Rinse spray tank thoroughly with clean water after each day's use and dispose of pesticide rinsate by application to an already treated area.

Satori Fungicide Alone (No Tank Mix)

- Add 1/2 to 2/3 of the required amount of water to the spray or mixing tank.
- With the agitator running, add Satori Fungicide to the tank.
- Continue agitation while adding the remainder of the water.
- Begin application of the spray solution after Satori Fungicide has completely dispersed into the mix water.
- Maintain agitation until all of the mixture has been sprayed.

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Satori Fungicide + Tank Mixtures: Satori Fungicide is usually compatible with all tank-mix partners listed on this label. To determine the physical compatibility of Satori Fungicide with other products, use a jar test. Using a quart jar, add the proportionate amounts of the products to 1.0 quart of water. Add wettable powders and water dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

Satori Fungicide has demonstrated some phytotoxic effects when mixed with products that are formulated as ECs. These effects are enhanced if applications are made under cool, cloudy conditions and these conditions remain for several days following application. In addition, adjuvants that contain some form of silicone have also contributed to phytotoxicity.

Mixing in the Spray Tank

- Add 1/2 to 2/3 of the required amount of water to the spray or mixing tank.
- With the agitator running, add the tank-mix partner(s) into the tank in the same order as described above.
- Allow the material to completely dissolve and disperse into the mix water. Continue agitation while adding the remainder of the water and Satori Fungicide to the spray tank.
- Allow Satori Fungicide to completely disperse.
- Spray the mixture with the agitator running.

APPLICATION INSTRUCTIONS THROUGH IRRIGATION SYSTEMS (CHEMIGATION)

- Use only on crops for which chemigation is specified on this label.
- Apply this product only through center pivot, solid set, hand move, or moving wheel irrigation systems. Do not apply this product through any other type of irrigation system.
- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- Apply in 0.1 to 0.25 inches per acre. Excessive water may reduce efficacy.
- If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers, or other experts.
- 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.
- 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 necessary adjustments if needed.

Spray Preparation: Clean chemical tank and injector system thoroughly. Flush system with clean water.

Drip Irrigation: Satori Fungicide may be applied through drip irrigation systems for soil-borne disease control. Ensure that the soil has adequate moisture capacity prior to drip application.

Terminate drip irrigation at fungicide depletion from the main feed supply tank or after 6 hours from start, whichever is shorter. For maximum efficacy, delay subsequent irrigation (water only) for at least 24 hours following drip application.

Sprinkler Irrigation

- Apply this product through sprinkler irrigation systems including center pivot, lateral move, end tow, side [wheel] roll, traveler, big gun, solid set, or hand move irrigation systems.
- Do not apply this product through any other type of irrigation system except as specified on this label.
- Apply with center pivot or continuous-move equipment distributing 1/2 acre-inch or less during treatment.
- In general, use the least amount of water required for proper distribution and coverage.
- If stationary systems (solid set, handlines or wheel lines other than continuous-move) are used, inject this product into no more than the last 20 to 30 minutes of the set.
- Do not apply when winds are greater than 10 to 15 mph to avoid drift or wind skips.
- Do not apply when wind speed favors drift beyond the area intended for treatment.
- Plant injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform treated water.
- Thorough coverage of foliage is required for good control.
- Maintain good agitation during the entire application period.

If you have questions about calibration, contact State Extension Service specialist, equipment manufacturers or other experts.

Operating Instructions

1. Do not apply when wind speed favors drift beyond the area intended for treatment. 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 backflow.
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.

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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. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. 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 necessary adjustments if needed.
8. 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.

Center Pivot Irrigation Equipment

Notes:

1. Use only with drive systems which provide uniform water distribution.
2. Do not use end guns when chemigating Satori Fungicide through center pivot systems because of non-uniform application.

- Determine the size of the area to be treated.
- Determine the time required to apply 1/8 to 1/2 inch of water over the area to be treated when the system and injection equipment are operated at normal pressures as specified by the equipment manufacturer. When applying Satori Fungicide through irrigation equipment use the lowest obtainable water volume while maintaining uniform distribution. Run the system at 80 to 95% of the manufacturer's rated capacity.
- Using water, determine the injection pump output when operated at normal line pressure.
- Determine the amount of Satori Fungicide required to treat the area covered by the irrigation system.
- Add the required amount of Satori Fungicide and sufficient water to meet the injection time requirements to the solution tank.
- Make sure the system is fully charged with water before starting injection of the Satori Fungicide solution. Time the injection to last at least as long as it takes to bring the system to full pressure.
- Maintain constant solution tank agitation during the injection period.
- Continue to operate the system until the Satori Fungicide solution has cleared the sprinkler head.

Solid Set, Hand Move, and Moving Wheel Irrigation Equipment

- Determine the acreage covered by the sprinklers.
- Fill injector solution tank with water and adjust flow rate to use the contents over a 20- to 30-minute interval. When applying Satori Fungicide through irrigation equipment use the lowest obtainable water volume while maintaining uniform distribution.
- Determine the amount of Satori Fungicide required to treat the area covered by the irrigation system.
- Add the required amount of Satori Fungicide into the same quantity of water used to calibrate the injection period.
- Operate the system at the same pressure and time interval established during the calibration.
- Stop injection equipment after treatment is completed. Continue to operate the system until the Satori Fungicide solution has cleared the last sprinkler head.

Specific Instructions for Public Water Systems

1. Public water system 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 at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back-flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, discharge the water from the public water system 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 or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must 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 fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

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SOILBORNE/SEEDLING DISEASE CONTROL

For those crops that have specific Use Directions for soilborne disease control:

Satori Fungicide can provide control of many soilborne diseases if applied early in the growing season. Specific applications for soilborne diseases include in-furrow applications and banded applications applied over the row, either shortly after plant emergence or during herbicide applications or cultivation. These applications will provide control of pre or postemergence damping off and diseases that infect plants at the soil-plant interface.

The use of either type of application depends on the cultural practices in the region. In some locations, one type of application may provide better disease control than the other, depending on the timing of the disease epidemic. Seedling diseases are generally controlled by in-furrow applications while banded applications are more effective against soilborne diseases that develop later in the season. Consult your local expert to get some guidance regarding application type.

Under cool, wet conditions, crop injury from soil directed applications can occur.

Banded

- Apply Satori Fungicide prior to infection as a directed spray to the soil, using single or multiple nozzles, adjusted to provide thorough coverage of the lower stems and the soil surface surrounding the plants.
- Limit band width to 7 inches or less.
- Apply Satori Fungicide at a rate of 0.40 to 0.80 fluid ounce product (0.10 to 0.20 ounce active ingredient) per 1000 row feet (for banded applications on 22-inch rows the maximum application rate is 0.70 fluid ounce per 1000 row feet).
- These applications come into contact with the foliage and are counted as foliar applications when considering resistance management.
- They may be applied during cultivation or hilling operations to provide soil incorporation.

In-Furrow

- Apply Satori Fungicide as an in-furrow spray in 3.0 to 15.0 gallons of water at planting.
- Mount the spray nozzle so the spray is directed into the furrow just before the seed are covered.
- Use the higher rate when the weather conditions are expected to be conducive for disease development, if the field has a history of Pythium problems, or if minimum/low till programs are in place.

In-Furrow Application Rates

Rate/1000 Row Ft		Product/A (Fl Oz)						
Fl Oz Product	Oz Active Ingredient	22" rows	30" rows	32" rows	34" rows	36" rows	38" rows	40" rows
0.40	0.10	9.5	7.0	6.5	6.1	5.8	5.5	5.2
0.60	0.15	14.3	10.5	9.8	9.2	8.7	8.3	7.8
0.80	0.20	—	14.0	13.0	12.2	11.6	11.0	10.4

Do not apply more than 15.0 fluid ounces per acre.

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

Drip

Refer to the Application Instructions Through Irrigation System section.

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DIRECTIONS FOR USE

Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
Alfalfa (See Nongrass Animal Feeds Forage, Fodder, Straw and Hay)			
Almonds	Alternaria leaf (<i>Alternaria alternata</i>) Anthracnose (<i>Colletotrichum acutatum</i>) Leaf blight (<i>Seimatosporium lichenicola</i>) Leaf rust (<i>Tranzschelia discolor</i>) Scab (<i>Cladosporium carpophilum</i>) Shothole (<i>Wilsonomyces carpophilus</i>)	6.0 to 15.5 (0.10 to 0.25)	Begin applications prior to disease development and continue throughout the season following the resistance management guidelines. Applications may be made by ground, air or chemigation. For aerial applications apply in a minimum of 15.0 GPA (Gallons Per Acre). Thorough and uniform coverage is essential for disease control. Reduced efficacy has been observed when uniform coverage cannot be obtained. Satori may be applied by air only at growth stages prior to and including 5 weeks after petal fall. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance.
	Brown rot blossom blight (<i>Monilinia laxa</i> , <i>M. fructicola</i>)	12.0 to 15.5 (0.20 to 0.25)	Anthracnose, scab and shothole: Begin applications prior to disease development and continue at 7- to 14-day intervals throughout the season. Blossom blight: Begin applications at early bloom and continue through petal fall. Do not apply more than 2 sequential applications of Satori or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.

Specific Use Restrictions:

1. Do not apply more than 92.3 fluid ounces of product per acre per season.
2. Do not apply more than 1.5 pounds active ingredient per acre per season of azoxystrobin-containing products.
3. Do not apply within 28 days of harvest (28-day PHI).

Artichoke, globe	Ramularia leaf spot (<i>Ramularia cynarae</i>)	11.0 to 15.5 (0.18 to 0.25)	Begin applications prior to or in the early stages of disease development, and continue as needed throughout the season at a 2- to 3-week interval, up to and including the day of harvest. Do not apply at less than 7-day intervals. Applications may be made by ground, air or chemigation. For ground applications, apply in 50.0 to 200.0 gal of water/A to obtain coverage without excessive runoff. For aerial applications apply in a minimum of 5.0 gal of water/A. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Do not apply more than 1 application of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11.
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Specific Use Restrictions:

1. Do not apply more than 92.3 fluid ounces of product per acre per season.
2. Do not apply more than 1.5 pounds active ingredient per acre per season of azoxystrobin-containing products.
3. May be applied the day of harvest (0-day PHI).

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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
Asparagus	Stemphyllium purple spot (<i>Stemphyllium vesicarium</i>)	6.0 to 15.5 (0.10 to 0.25)	Begin applications prior to disease development and continue throughout the season on a 7- to 14-day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at specified rates. Use a minimum of 10.0 gal of water/A by ground, and minimum of 3.0 gal/A by air. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Do not apply more than 1 application of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11.

Specific Use Restrictions:

1. Do not apply more than 92.3 fluid ounces of product per acre per season.
2. Do not apply more than 1.5 pounds active ingredient per acre per season of azoxystrobin-containing products.
3. Do not apply within 100 days of harvest (100-day PHI).

Bananas Plantains	Black sigatoka (<i>Mycosphaerella fi jiensis</i>) Yellow sigatoka (<i>Mycosphaerella musicola</i>)	5.5 to 8.5 (0.09 to 0.135)	Begin applications prior to disease development and continue throughout the season every 12 to 14 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Do not apply more than 2 sequential applications of Satori or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
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Specific Use Restrictions:

1. Do not apply more than 66.4 fluid ounces of product per acre per season.
2. Do not apply more than 1.08 pounds active ingredient per acre per season of azoxystrobin-containing products.
3. Satori may be applied the day of harvest (0-day PHI).

Cereals Barley Oats Rye	Kernel blight (<i>Alternaria</i> spp.)	6.0 to 12.0 (0.10 to 0.20)	Begin applications prior to disease development. Protecting the flag leaf is important for maximizing disease control. For best results, sufficient water volume must be used to provide thorough coverage. Satori can be applied by ground, air or chemigation. A crop oil concentrate adjuvant may be added at 1.0% v/v to optimize efficacy. For chemigation, apply in 0.1 to 0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy. Do not apply more than 2 sequential applications of Satori or other Group 11 fungicides before alternation with a fungicide that is not in Group 11. Do not make more than 2 applications of Satori or other Group 11 fungicide/season.
	Leaf rust (<i>Puccinia hordei</i>)		
	Barley stripe (<i>Drechslera graminea</i> = <i>Pyrenophora graminea</i>) Net blotch (<i>Pyrenophora teres</i>)	9.0 to 12.0 (0.15 to 0.20)	
	Powdery mildew (<i>Erysiphe graminis</i> f. sp. <i>hordei</i>) Stagonospora blotch (<i>Stagonospora nodorum</i>)	12.0 (0.20)	

Specific Use Restrictions:

1. Do not apply after Feekes 10.54.
2. Do not apply more than 0.40 pound active ingredient per acre per season of azoxystrobin-containing products.
3. Do not apply within 7 days of grazing or harvest (7-day PHI) for forage and hay.

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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
Berry, Low Growing Subgroup 13-07G (except Cranberry, Strawberry) See additional crops below.	Anthracnose (<i>Colletotrichum fragariae</i>) Leather rot (<i>Phytophthora cactorum</i>) Powdery mildew (<i>Sphaerotheca macularis</i>) Suppression of Botrytis on the foliage (<i>Botrytis cinerea</i>)	6.0 to 15.5 (0.10 to 0.25)	Begin applications prior to disease development and continue throughout the season on a 7- to 10-day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. For Leather rot control, apply 2 applications on a 7-day schedule from late bloom through harvest. For dip applications at transplanting for commercial berry production: For suppression of Root and Crown rot caused by <i>Colletotrichum</i> spp., mix 5.0 to 8.0 fl oz of Satori/100 gal of water. Dip plants for 2 to 5 minutes. Plant treated plants as quickly as possible. It is recommended that transplants be washed to remove excess soil prior to dipping. For continued Anthracnose control, follow with foliar applications beginning 2 to 3 weeks after transplant. Do not apply more than 2 sequential applications of Satori or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
	Soilborne Diseases Seedling root rot Basal stem rot (<i>Rhizoctonia solani</i>)	0.40 to 0.80 fl oz/ 1000 row ft	For soilborne/seedling disease control, see directions and rates under the SOILBORNE/ SEEDLING DISEASE CONTROL section.

Additional Low Growing Berries: Bearberry, Bilberry, Cloudberry, Muntries, Partridgeberry including all cultivars and/or hybrids of these.

Specific Use Restrictions:

1. Do not apply more than 61.5 fluid ounces of product per acre per season.
2. Do not apply more than 1.0 pound active ingredient per acre per season of azoxystrobin-containing products.
3. Do not use in plant propagation nurseries.
4. Satori may be applied the day of harvest (0-day PHI).

Brassica Head and Stem subgroup: Broccoli Brussels sprouts Cabbage Cauliflower Cavalo broccolo Chinese broccoli [gai lon] Chinese cabbage [napa] Chinese mustard cabbage [gai choy] Kohlrabi Including all cultivars and/or hybrids of these	Alternaria leaf spot (<i>Alternaria</i> spp.) Downy mildew (<i>Peronospora parasitica</i>) Pin rot (<i>Alternaria</i> spp.)	6.0 to 15.5 (0.10 to 0.25)	Begin applications prior to disease development and continue throughout the season on a 7- to 14-day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Use a minimum of 10.0 gal of water/A by ground, and minimum of 3.0 gal/A by air. Do not apply more than 2 applications of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11.
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Specific Use Restrictions:

1. Do not apply more than 92.3 fluid ounces of product per acre per season.
2. Do not apply more than 1.5 pounds active ingredient per acre per season of azoxystrobin-containing products.
3. May be applied the day of harvest (0 day PHI).

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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
Brassica Leafy Greens subgroup: Broccoli raab Cabbage, Chinese Collards Kale Mizuna Mustard greens Mustard spinach Rape greens Including all cultivars and/or hybrids of these	Black spot (<i>Alternaria</i> spp.) Cercospora leaf spot (<i>Cercospora</i> spp.) White rust (<i>Albugo candida</i>)	6.0 to 15.5 (0.10 to 0.25)	Begin applications prior to disease development and continue throughout the season on a 7- to 14-day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Do not apply more than 1 application of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11. For soilborne/seedling disease control, see directions and rates under SOILBORNE/SEEDLING DISEASE CONTROL section.
	Soilborne Diseases Seedling root rot Basal stem rot (<i>Rhizoctonia solani</i>)	0.40 to 0.80 fl oz/ 1000 row ft	

Specific Use Restrictions:

1. Do not apply more than 46.0 fluid ounces of product per acre per season.
2. Do not apply more than 0.75 pound active ingredient per acre per season of azoxystrobin-containing products.
3. May be applied the day of harvest (0-day PHI).

Bulb Vegetables Crop Group 3-07 Garlic Leek Onion, bulb Daylily, bulb Fritillaria, bulb Garlic, bulb Garlic, great-headed, bulb Garlic, serpent, bulb Lily, bulb Onion, bulb Onion, Chinese, bulb Onion, pearl Onion, potato, bulb Shallot, bulb Onion, green Chive, fresh leaves Chive, Chinese, fresh leaves Elegans hosta Fritillaria, leaves Kurrat Lady's leek Leek Leek, wild Onion, Beltsville bunching Onion, fresh Onion, green Onion, macrostem Onion, tree, tops Onion, Welsh, tops Shallot, fresh leaves Including all cultivars and/or hybrids of these	Foliar Diseases Cladosporium leaf blotch (<i>Cladosporium allii</i>) Purple blotch (<i>Alternaria porri</i>) Rust (<i>Puccinia allii</i>)	6.0 to 12.0 (0.10 to 0.20)	For Downy mildew , make preventative applications on a 5- to 7-day schedule. For all other diseases, begin applications prior to disease development and continue throughout the season every 7 to 14 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. If applications are made by air, use the higher rates for adequate control. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Do not apply more than 1 application of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11. Test mixtures of Satori Fungicide with insecticides and silicone adjuvants for crop safety before application to the crop.
	Botrytis leaf blight (<i>Botrytis aclada</i>) Downy mildew (<i>Peronospora destructor</i>)	9.0 to 15.5 (0.15 to 0.25)	
	Soilborne Diseases Rhizoctonia damping-off (<i>Rhizoctonia solani</i>)	0.40 to 0.80 fl oz/ 1000 row ft	For soilborne/seedling disease control, see directions under SOILBORNE/SEEDLING DISEASE CONTROL section. If the application is an in-furrow application, spray just prior to seed placement so that the majority of the chemical is under the seed. This will reduce the potential for phytotoxicity, especially if fertilizer is added to the application.

Specific Use Restrictions:

1. Do not apply more than 92.3 fluid ounces of product per acre per season.
2. Do not apply more than 1.5 pounds active ingredient per acre per season of azoxystrobin-containing products.
3. May be applied the day of harvest (0-day PHI).

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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
Canola (see Oilseed Crops for additional information)	Alternaria blackspot (<i>Alternaria</i> spp.) Blackleg (<i>Leptosphaeria maculans</i>) Sclerotinia stem rot (<i>Sclerotinia sclerotiorum</i>)	6.0 to 15.5 (0.10 to 0.25)	In general, apply 7.0 fl oz of Satori Fungicide at early bud followed by 14.0 fl oz at about 45 days before harvest. A third application of 7.0 fl oz may be made 30 days before harvest. Specifically for Blackleg, apply at the 2- to 4-leaf stage. For Alternaria or Sclerotinia, apply 9.0 to 15.5 fl oz product/A at 10 to 25% flowering (3 to 7 days following first flower). Use the higher rate under heavy disease pressure or when conditions are favorable for disease. For control of Alternaria alone, 8.0 fl oz product/A may be applied at pod stage (approximately 95% petal fall). Do not apply more than 1 application of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11. Applications may be made by ground, air or chemigation. Use a minimum of 10.0 gal of water/A for ground applications.

Specific Use Restrictions:

1. Do not apply more than 27.6 fluid ounces of product per acre per season.
2. Do not apply more than 0.45 pound active ingredient per acre per season of azoxystrobin-containing products.
3. Do not apply within 30 days of harvest (30-day PHI).

Carrots	Early blight (<i>Cercospora carotae</i>) Late blight (<i>Alternaria dauci</i>) White mold (<i>Sclerotium rolfsii</i>) For additional diseases, see Vegetables, root, subgroup	9.0 to 20.0 (0.15 to 0.33)	Begin applications prior to disease development and continue throughout the season every 7 to 14 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Do not apply more than 1 application of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11.
	Soilborne Diseases Rhizoctonia root rot (<i>Rhizoctonia solani</i>)	0.40 to 0.80 fl oz/ 1000 row ft	For soilborne/seedling disease control, see directions and rates under SOILBORNE/ SEEDLING DISEASE CONTROL section.

Specific Use Restrictions:

1. Do not apply more than 123.0 fluid ounces of product per acre per season.
2. Do not apply more than 2.0 pounds active ingredient per acre per season of azoxystrobin-containing products.
3. May be applied the day of harvest (0-day PHI).

Celery	Early blight (<i>Cercospora apii</i>) Late blight (<i>Septoria apicola</i>) For additional diseases, see Leafy vegetables	9.0 to 15.5 (0.15 to 0.25)	Begin applications prior to disease development and continue throughout the season every 7 to 14 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Do not apply more than 1 application of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11.
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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
Celery cont'd.:	Soilborne Diseases Rhizoctonia root rot (<i>Rhizoctonia solani</i>)	0.40 to 0.80 fl oz/ 1000 row ft	For soilborne/seedling disease control, see directions and rates under SOILBORNE/SEEDLING DISEASE CONTROL section.

Specific Use Restrictions:

1. Do not apply more than 92.3 fluid ounces of product per acre per season.
2. Do not apply more than 1.5 pounds active ingredient per acre per season of azoxystrobin-containing products.
3. May be applied the day of harvest (0-day PHI).

Christmas trees	Diplodia tip blight (<i>Diplodia pinea</i>) Lophodermium needlecast (<i>Lophodermium pinastri</i>) Swiss needlecast (<i>Phaeocryptopus gaumannii</i>)	6.0 to 15.5 (0.10 to 0.25)	Begin applications prior to disease development and continue throughout the season at 7- to 21-day intervals following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Do not apply more than 2 sequential applications of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11.
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Specific Use Restrictions:

1. Do not apply more than 123.0 fluid ounces of product per acre per season.
2. Do not apply more than 2.0 pounds active ingredient per acre per season of azoxystrobin-containing products.

Citrus Fruit Crop Group 10-10 Calamondin Citron Grapefruit Kumquat Lemon Lime Mandarin Orange (sour and sweet) Pummelo Satsuma mandarin Tangerine Including all cultivars and/or hybrids of these See complete list of citrus fruit crops below.	Albinism (<i>Alternaria alternata</i> pv citri) Alternaria Leaf and Fruit spot (<i>Alternaria citri</i>) Cercospora leaf spot (<i>Cercospora</i> spp.) Diplodia stem-end rot (<i>Diplodia natalensis</i>) Greasy spot (<i>Mycosphaerella citri</i>) Melanose (<i>Diaporthe citri</i>) Penicillium decays Green mold, Whisker mold, suppression of Blue mold (<i>Penicillium</i> spp.) Phomopsis stem-end rot (<i>Phomopsis citrii</i>) Post Bloom Fruit Drop (PFD) (<i>Colletotrichum acutatum</i>) Powdery mildew (<i>Erysiphe</i> spp.) Scab (<i>Elsinoe fawcettii</i>) Sweet orange scab (<i>Elsinoe australis</i>)	12.0 to 15.5 (0.20 to 0.25)	Begin applications prior to disease development and continue throughout the season on 7- to 21-day intervals following the resistance management guidelines. Under conditions that favor severe disease epidemics, the higher application rates should be used. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. A horticultural spray oil should be used to improve control of Greasy spot. Do not apply more than 2 sequential applications of Satori or other Group 11 fungicides before alternation with a fungicide that is not in Group 11. Do not make more than 4 applications of Satori or other Group 11 fungicide/season.
	Black spot (<i>Guidnardia citricarpa</i>)	9.0 to 15.5 (0.15 to 0.25)	
Pummelo Citrus hybrid (Uniq fruit only)	Soilborne Diseases Seedling root rot, Basal stem rot (<i>Rhizoctonia solani</i>)	0.40 to 0.80 fl oz/1000 row ft	For soilborne/seedling disease control, see directions and rates under the SOILBORNE/SEEDLING DISEASE CONTROL section.

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Use Rate	Target Diseases	Fl Oz Product/A (Lb AI/A)	Remarks
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Citrus Fruit cont'd.:

Complete List of Citrus Fruit Crops: Australian Desert lime (*Eremocitrus glauca*); Australian finger lime (*Microcitrus australasica*); Australian round lime (*Microcitrus australis*); Brown River finger lime (*Microcitrus papuana*); Calamondin (*Citrofortunella microcarpa*); Citron (*Citrus medica*); Citrus hybrids, Citrus spp., *Eremocitrus* spp., *Fortunella* spp., *Microcitrus* spp., and *Poncirus* spp.; Grapefruit (*Citrus paradise*); Japanese summer grapefruit (*Citrus natsudaidai*); Kumquat (*Fortunella* spp.); Lemon (*Citrus limon*); Lime (*Citrus aurantiifolia*); Mediterranean mandarin (*Citrus deliciosa*); Mount White lime (*Microcitrus garrowayae*); New Guinea wild lime (*Microcitrus warburgiana*); Orange, sour (*Citrus aurantium*); Orange, sweet (*Citrus sinensis*); Pummelo (*Citrus maxima*); Russell River lime (*Microcitrus inodora*); Satsuma mandarin (*Citrus unshiu*); Sweet lime (*Citrus limetta*); Tachibana orange (*Citrus tachibana*); Tahiti lime (*Citrus latifolia*); Tangelo (*Citrus x tangelo*); Tangerine (Mandarin) (*Citrus reticulata*); Tangor (*Citrus nobilis*); Trifoliolate orange (*Poncirus trifoliolate*); Uniq fruit (*Citrus aurantium* Tangelo group); cultivars, varieties and/or hybrids of these.

Specific Use Restrictions:

1. Do not apply more than 92.3 fluid ounces of product per acre per season.
2. Do not apply more than 1.5 pounds active ingredient per acre per season of azoxystrobin-containing products.
3. Do not use Satori in citrus plant propagation nurseries.
4. Satori may be applied the day of harvest (0-day PHI).

Clover (and stands containing Clover) (See Nongrass Animal Feeds Forage, Fodder, Straw and Hay)	—	—	—
Corn Field Pop Sweet (includes seed production)	Rust (<i>Puccinia sorghi</i>)	6.0 to 9.0 (0.10 to 0.15)	For Gray leaf spot, apply Satori Fungicide at the onset of disease. A second application may be required 14 days later if disease pressure persists. For all other diseases, begin applications prior to disease development and may continue throughout the season every 7 to 14 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Do not apply more than 2 sequential applications of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11. For field corn and field corn grown for seed, do not make more than 2 applications/season.
	Anthracnose leaf blight (<i>Colletotrichum graminicola</i>) Eye spot (<i>Aureobasidium zeae</i>) Gray leaf spot (<i>Cercospora sorghi</i>) Northern corn leaf blight (<i>Setosphaeria turcica</i>) Northern corn leaf spot (<i>Cochliobolus carbonum</i>) Southern corn leaf blight (<i>Cochliobolus heterostrophus</i>)	6.0 to 15.5 (0.10 to 0.25)	
	Early Application (V4 to V8)	6.0 (0.10)	
	Soilborne Diseases Rhizoctonia root and stalk rot (<i>Rhizoctonia solani</i>)	0.40 to 0.80 fl oz/ 1000 row ft	

Specific Use Restrictions:

1. Do not apply more than 123.0 fluid ounces of product per acre per season.
2. Do not apply more than 2.0 pounds active ingredient per acre per season of azoxystrobin-containing products.
3. Do not apply within 7 days of harvest (7-day PHI).

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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
Cotton	Anthracnose (<i>Glomerella gossypii</i>) Ascochyta blight (<i>A. gossypii</i>) Boll rot (<i>A. gossypii</i>) Cotton rust (<i>Puccinia schedonnardi</i>) Hardlock (<i>Fusarium verticillioides</i>) Southwestern cotton rust (<i>Puccinia cacabata</i>)	6.0 to 9.0 (0.1 to 0.15)	For optimum disease control, begin applications prior to or in the early stages of disease development. Applications may be made by ground, air, or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Minimum application volumes for air and ground are 5.0 and 10.0 gal/A, respectively. Target the first Satori Fungicide application approximately at pinhead square to first bloom to protect the plant from diseases. Subsequent application(s) are specified on a 14- to 21-day schedule. An additional application may be made depending on environmental conditions and the health of the cotton plant. Under poor environmental conditions conducive to seedling disease and poor cotton growth, Satori Fungicide may be applied to early season cotton to suppress damping off and other diseases which result in plant stand loss. Do not apply more than 2 foliar applications of Satori Fungicide or other QoI fungicides before alternating with a fungicide that has a different mode of action. Do not make more than 3 foliar applications of Satori Fungicide or other QoI fungicides/crop/A/yr.
	Pythium seedling blight (<i>Pythium aphanidermatum</i>) Rhizoctonia seedling blight (<i>Rhizoctonia solani</i>)	In-Furrow 0.40 to 0.80 fl oz product/1000 row ft (0.10 to 0.20 oz AI/1000 row ft)	Application Directions: Apply Satori Fungicide as an in-furrow spray in 3.0 to 7.0 gal of water at planting. Mount the spray nozzle so the spray is directed into the furrow just before the seed are covered. Use the higher rate when the weather conditions are expected to be conducive for disease development, if the field has a history of Pythium problems, or if minimum/low till programs are in place. See SOILBORNE/SEEDLING DISEASE CONTROL section for table illustrating total fl oz/A with various row spacings.

Specific Use Restrictions:

1. Do not apply more than 27.0 fluid ounces of product per crop per season as a foliar spray.
2. Do not apply within 45 days of harvest (45-day PHI).

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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
Cranberry Subgroup 13-07H (except Strawberry) Bearberry Bilberry Blueberry, lowbush Cloudberry Lingonberry Muntries Partridgeberry. Including all cultivars and/or hybrids of these	Cottonball (<i>Monilinia oxycocci</i>) Fruit rots (<i>Physalospora vaccinii</i>) (<i>Glomerella cingulata</i>) (<i>Coleophoma empetri</i>) Lophodermium twig blight (<i>Lophodermium</i> spp.)	6.0 to 15.5 (0.10 to 0.25)	Begin applications at 5 to 10% bloom for Fruit rot, Cottonball, and Twig blight. Continue applications on a 7- to 14-day schedule if conditions are favorable for disease development. Applications may be made by ground, chemigation or air. Do not apply more than 2 sequential applications of Satori or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
	Fairy ring (suppression) (<i>Psilocybe</i> spp.)	15.5 (0.25)	Make the first application at bud break. Measure the ring diameter and add 10 ft to that diameter. Apply Satori Fungicide at a rate equivalent to 15.5 fl oz/A in 30.0 to 100 gal of water to the affected area. Irrigation (1 to 2 hours) following application is advisable to ensure penetration to the base of the plant. If necessary make another application 2 to 4 weeks later. For ground application ensure adequate water volume for thorough canopy penetration.

Specific Use Restrictions:

1. Do not apply more than 92.3 fluid ounces of product per acre per season.
2. Do not apply more than 1.5 pounds active ingredient per acre per season of azoxystrobin-containing products.
3. Do not treat cranberry fields used for aquaculture of fish and crustacea.
4. Do not apply when weather conditions favor drift from treated areas to non-target aquatic habitat. Applicators should use care in making applications near non-target aquatic habitats.
5. Do not apply to flooded crop.
6. Do not allow release of irrigation or flood water to non-target aquatic habitat for at least 14 days after the last application.
7. Do not apply within 3 days of harvest (3-day PHI).

Cucurbits Cantaloupe Chayote Chinese-waxgourd Cucumber Gourds Honeydew Melons <i>Momordica</i> spp. (bitter melon, balsam apple) Muskmelon Pumpkin Squash Watermelon Zucchini Including cultivars and/or hybrids of these	Anthracnose (<i>Colletotrichum lagenarium</i>) Belly rot (<i>Rhizoctonia solani</i>) Downy mildew (<i>Pseudoperonospora cubensis</i>) Gummy stem blight (<i>Didymella bryoniae</i>) Leaf spots (<i>Alternaria</i> spp., <i>Cercospora</i> spp.) Myrothecium canker (<i>Myrothecium roridum</i>) Plectosporium blight (<i>Plectosporium tabacinum</i>) Powdery mildew (<i>Sphaerotheca fuliginea</i> , <i>Erysiphe cichoracearum</i>) Ulocladium leaf spot (<i>Ulocladium cucurbitae</i>)	6.0 to 15.5 (0.10 to 0.25)	For both Downy and Powdery mildew, make preventative applications on a 5- to 7-day schedule. For Belly rot control, make the first application at the 1- to 3-leaf crop stage with a second application just prior to vine tip over or 10 to 14 days later whichever occurs first. For all other diseases, begin applications prior to disease development and continue throughout the season every 7 to 14 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Do not tank mix Satori Fungicide with COC, MSO or silicon adjuvants. Do not tank mix Satori Fungicide with malathion, Kelthane®, Thiodan®, Phaser®, Lannate®, Lorsban®, M-Pede® or Botran®. Do not apply more than 1 application of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11. Do not make more than 4 foliar applications of Satori Fungicide or other Group 11 fungicide/crop/ A/yr.
	Soilborne Diseases Rhizoctonia root rot (<i>Rhizoctonia solani</i>)	0.40 to 0.80 fl oz/ 1000 row ft	For soilborne/seedling disease control, see directions and rates under SOILBORNE/ SEEDLING DISEASE CONTROL section.

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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
Cucurbits cont'd.:			
Specific Use Restrictions:			
1. Do not apply more than 92.3 fluid ounces of product per acre per season.			
2. Do not apply more than 1.5 pounds active ingredient per acre per season of azoxystrobin-containing products.			
3. Do not apply within 1 day of harvest (1-day PHI).			
Fruiting Vegetables Crop Group 8-10 Eggplant Pepper Bell pepper Non-bell pepper Sweet non-bell pepper Okra Pepino Including all cultivars and/or hybrids of these See specific directions for use for Tomatoes. See complete list of fruiting vegetables below.	Anthracnose (<i>Colletotrichum</i> spp.) Powdery mildew (<i>Sphaerotheca</i> spp.)	6.0 to 15.5 (0.10 to 0.25)	Begin applications prior to disease development and continue throughout the season on a 7- to 14-day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Do not apply more than 1 application of Satori or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
	Soilborne Diseases Rhizoctonia seedling rot (<i>Rhizoctonia solani</i>)	0.40 to 0.80 fl oz/ 1000 row feet	For soilborne/seedling disease control, see directions and rates under the SOILBORNE/SEEDLING DISEASE CONTROL section.
Complete List of Fruiting Vegetables: African eggplant; Bell pepper; Eggplant; Martynia; Non-bell pepper; Okra; Pea eggplant; Pepino; Roselle; Scarlet eggplant; cultivars, varieties and/or hybrids of these.			
Specific Use Restrictions:			
1. Do not apply more than 61.5 fluid ounces of product per acre per season.			
2. Do not apply more than 1.0 pound active ingredient per acre per season of azoxystrobin-containing products.			
3. May be applied the day of harvest (0-day PHI).			
Grapes and Other Small Fruit Vine Climbing Subgroup 13-07F (except fuzzy kiwifruit) Amur River grape Kiwifruit, hardy Maypop muscadines Schisandra berry Including all cultivars and/or hybrids of these	Black rot (<i>Guignardia bidwellii</i>) Downy mildew (<i>Plasmopara viticola</i>) Phomopsis cane and Leaf spot (<i>Phomopsis viticola</i>) Powdery mildew (<i>Uncinula necator</i>) Suppression Only: Botrytis bunch rot (<i>Botrytis cinerea</i>)	10.0 to 15.5 (0.16 to 0.25)	Begin applications prior to disease development and continue throughout the season every 10-14 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Do not apply more than 2 sequential foliar applications of Satori or other Group 11 fungicides before alternating with a fungicide that is not in Group 11. ATTENTION Satori is extremely phytotoxic to certain apple varieties. AVOID SPRAY DRIFT. Extreme care must be used to prevent injury to apple trees (and apple fruit). DO NOT spray Satori where spray drift may reach apple trees. DO NOT use spray equipment which has been previously used to apply Satori to spray apple trees. Even trace amounts can cause unacceptable phytotoxicity to certain apple and crabapple varieties. AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.
Specific Use Restrictions:			
1. Do not apply more than 92.3 fluid ounces of product per acre per season.			
2. Do not apply more than 1.5 pound active ingredient per acre per season of azoxystrobin-containing products.			
3. Do not apply within 14 days of harvest (14-day PHI).			

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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
Grasses (grown for seed)	Ergot stem diseases Powdery mildew (<i>Erysiphe graminis</i>) Rust (<i>Puccinia</i> spp.)	6.0 to 15.5 (0.10 to 0.25)	Begin applications prior to disease development and continue throughout the season on a 10- to 14-day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Do not apply more than 2 sequential applications of Satori Fungicide or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.

Specific Use Restrictions:

1. Do not apply more than 49.0 fluid ounces of product per acre per season.
2. Do not apply more than 0.8 pound active ingredient per acre per season of azoxystrobin-containing products.
3. Do not feed treated straw, seed, or screenings to livestock.
4. May be applied up to 8 days prior to harvest (swathing) (8-day PHI).

Herbs & Spices

(except black pepper)

Allspice; Angelica; Anise (seed); Anise, star; Annatto; Balm; Basil; Borage; Burnet; Camomile; Caper (buds); Caraway; Caraway, black; Cardamon; Cassia (buds); Catnip; Celery seed; Chervil (dried); Chive; Chive, Chinese; Cinnamon; Clary; Clove (buds); Coriander (cilantro or Chinese parsley) (leaf); Coriander (seed); Costmary; Culantro (leaf and seed); Cumin; Curry (leaf); Dill (seed); Dillweed; Fennel, common; Fennel, Florence (seed); Fenugreek; Grains of paradise; Horehound; Hyssop; Juniper (berry); Lavender; Lemongrass; Lovage (leaf and seed); Mace; Marigold; Marjoram; Mustard (seed), Nasturtium; Nutmeg; Parsley (dried); Pennyroyal; Pepper, white; Poppy seed; Rosemary; Rue; Saffron; Sage; Savory, summer and winter; Sweet bay; Tansy; Tarragon; Thyme; Vanilla; Wintergreen; Woodruff; Wormwood

Corynespora blight
(*Corynespora cassiicola*)
Dill blight
(*Cercosporidium punctum*)
Phoma blight
(*Passalora puncta*)

6.0 to 15.5
(0.10 to 0.25)

Begin applications at the onset of disease development and continue throughout the season on a 7-day schedule, following the resistance management guidelines.
Applications may be made by ground only. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance.
Use a minimum of 30.0 gal of water/A.
Do not apply more than 2 sequential applications of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11.

Wasabi

Fusarium rhizome and Root rot
(*Pythium* spp.)

6.2 to 15.4
(0.10 to 0.25)

Begin applications at the onset of disease development and continue throughout the season on a 7-day schedule, following the resistance management guidelines.
Applications may be made by ground or through the irrigation system (chemigation). An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Use a minimum of 30.0 gal of water/A.
Do not apply more than 2 sequential

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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
<i>Herbs & Spices cont'd.:</i>			applications of Satori or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.

Specific Use Restrictions:

1. Do not apply more than 92.3 fluid ounces of product per acre per season.
2. Do not apply more than 1.5 pounds active ingredient per acre per season of azoxystrobin-containing products.
3. May be applied the day of harvest (0-day PHI).

Leafy Vegetables (except brassica) Amaranth Arugula Cardoon Celery Celtuce Chervil Chrysanthemum, edible Coriander, leaves (Cilantro) Corn salad Cress Dandelion Dock Endive Fennel Lettuce, head and leaf Orach Parsley Purslane Radicchio Rhubarb Spinach Swiss Chard Including cultivars and/or hybrids of these	Foliar Diseases Alternaria leaf spot (<i>Alternaria sonchi</i> , <i>A. spp.</i>) Anthracnose (<i>Microdochium panattonianum</i> , <i>Colletotrichum dematium</i>) Cercospora leaf spot (<i>Cercospora spp.</i>) Septoria leaf spot (<i>Septoria petroselinii</i>) White rust (<i>Albugo occidentalis</i>)	6.0 to 15.5 (0.10 to 0.25)	For both Downy and Powdery mildew, make preventative applications on a 5- to 7-day schedule. For all other diseases, begin applications prior to disease development and continue throughout the season every 7 to 14 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Do not apply more than 1 application of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11.
	Downy mildew (<i>Bremia lactucae</i>) Powdery mildew (<i>Erysiphe cichoracearum</i>)	12.0 to 15.5 (0.20 to 0.25)	ATTENTION: Applications of Satori Fungicide to leafy vegetable foliage have contributed to phytotoxicity under certain circumstances. Proceed with caution with regard to tank mixes and adjuvants when treating all leafy vegetables with this product. Satori Fungicide must not be tank mixed on leaf lettuce with Ambush® WP, Pounce® WP, Aliette®, Warrior® with Zeon™ Technology, or another product that may increase the penetration of Satori Fungicide into the leaf surface, such as Franchise or Liberate.
	Soilborne Diseases Bottom rot, Crater rot, Root rot, Webb blight, (<i>Rhizoctonia solani</i>)	0.40 to 0.80 fl oz/ 1000 row ft	For soilborne/seedling disease control, see directions and rates under SOILBORNE/ SEEDLING DISEASE CONTROL section.

Specific Use Restrictions:

1. Do not apply more than 92.3 fluid ounces of product per acre per season.
2. Do not apply more than 1.5 pounds active ingredient per acre per season of azoxystrobin-containing products.
3. May be applied the day of harvest (0-day PHI).

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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
<p>Legume vegetables, dry and succulent and Legume vegetables, Foliage of any cultivar of Bean (<i>Phaseolus</i> spp.) and Field pea (<i>Pisum</i> spp.) Bean (<i>Lupinus</i> spp.) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin) Bean (<i>Phaseolus</i> spp.) (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean) Bean (<i>Vigna</i> spp.) (includes adzuki bean, asparagus bean, blackeyed pea, cowpea, catjang, Chinese longbean, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean) Bean (<i>Glycine</i> max) Soybean, Immature Seed (edamame) Broad bean (fava bean) (<i>Vicia faba</i>) Chickpea (garbanzo bean) (<i>Cicer arietinum</i>) Guar (<i>Cyamopsis tetragonoloba</i>) Jackbean (<i>Canavalia ensiformis</i>) Lablab bean (hyacinth bean) (<i>Lablab purpureus</i>) Lentil (<i>Lens esculenta</i>) Pea (<i>Pisum</i> spp.) (includes dwarf pea, edible-pod pea, English pea, garden pea, green pea, field pea, snow pea, sugar snap pea) Pigeon pea (<i>Cajanus cajan</i>) Sword bean (<i>Canavalia gladiata</i>)</p>	<p>Bean rust (<i>Uromyces appendiculatus</i>) Alternaria blight (<i>Alternaria</i> spp.) Alternaria leaf spot (<i>Alternaria alternata</i>) Anthracnose (<i>Colletotrichum lindemuthianum</i>) Ascochyta blight (<i>Mycosphaerella pinodes</i>) Ascochyta leaf and pod spot (<i>Ascochyta</i> spp.) Ascochyta leaf spot (<i>Ascochyta phaseolorum</i>) Rust (<i>Phakopsora</i> spp.) Southern blight (<i>Sclerotium rolfsii</i>) Web blight (<i>Rhizoctonia solani</i>)</p>	<p>6.0 (0.10) 6.0 to 15.5 (0.10 to 0.25) 0.40 to 0.80 fl oz/ 1000 row ft</p>	<p>Begin applications prior to disease development and continue throughout the season every 7 to 14 days following the resistance management guidelines. Use the higher rates under severe disease pressure. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Do not apply more than 2 sequential applications of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11.</p> <p>For soilborne/seedling disease control, see directions and rates under SOILBORNE/SEEDLING DISEASE CONTROL section. Satori can be applied to the furrow and covering soil at planting time in a 7-inch band. Avoid a concentrated stream directly on the seed or delayed emergence may occur. If using a narrow spray as an in-furrow spray, adjust the spray stream to hit the soil next to the seed but not hit the seed. NOTE: Conduct a seed safety test with your crop before making in-furrow applications.</p>
<p>Specific Use Restrictions:</p> <ol style="list-style-type: none"> 1. Do not apply more than 92.3 fluid ounces of product per acre per season. 2. Do not apply more than 1.5 pounds active ingredient per acre per season of azoxystrobin-containing products. 3. Do not apply within 14 days of harvest (14-day PHI) of dry legume vegetables (dry bean and dry pea seeds). 4. For use on soybeans, please refer to the soybean crop directions for use. 5. May be applied the day of harvest (0-day PHI) for succulent beans and peas. 			
<p>Mint (Fresh or for processing into mint oil)</p>	<p>Powdery mildew (<i>Erysiphe</i> spp.) Rust (<i>Puccinia menthae</i>)</p>	<p>6.0 to 15.5 (0.10 to 0.25)</p>	<p>Begin applications prior to disease development and continue throughout the season on a 7- to 10-day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Do not apply more than 2 sequential applications of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11.</p>

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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
<i>Mint cont'd.</i>	Soilborne Diseases Seedling root rot, Basal stem rot (<i>Rhizoctonia solani</i>)	0.40 to 0.80 fl oz/ 1000 row ft	For soilborne/seedling disease control, see directions and rates under SOILBORNE/SEEDLING DISEASE CONTROL section.

Specific Use Restrictions:

1. Do not apply more than 46.0 fluid ounces of product per acre per season.
2. Do not apply more than 0.75 pound active ingredient per acre per season of azoxystrobin-containing products.
3. For processed mint, do not apply within 7 days prior to harvest (7-day PHI).
4. For fresh mint, may be applied the day of harvest (0-day PHI).

Nongrass Animal Feeds Forage, Fodder, Straw and Hay For pure/mixed stands of the following or stands mixed with grasses. Alfalfa (<i>Medicago sativa</i> subsp. <i>sativa</i>) Bean, velvet (<i>Mucuna pruriens</i> var. <i>utilis</i>) Clover (<i>Trifolium</i> spp., <i>Melilotus</i> spp.) Kudzu (<i>Pueraria lobata</i>) Lespedeza (<i>Lespedeza</i> spp.) Lupin (<i>Lupinus</i> spp.) Sainfoin (<i>Onobrychis viciifolia</i>) Trefoil (<i>Lotus</i> spp.) Vetch (<i>Vicia</i> spp.) Vetch, crown (<i>Coronilla varia</i>) Vetch, milk (<i>Astragalus</i> spp.)	Alternaria leaf spots (<i>Alternaria</i> spp.) Cercospora leaf spots (<i>Cercospora</i> spp.) Downy mildew (<i>Peronospora</i> spp.) Powdery mildew (<i>Oidium</i> spp., <i>Erysiphe</i> spp.) Rust (<i>Phakopsora</i> spp.)	6.0 to 15.5 (0.10 to 0.25)	Begin applications prior to disease development and continue throughout the season. Use the higher rates under severe disease pressure. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. For management of outbreaks of Asian soybean rust and other Puccinia species on alternate host species such as Kudzu, Lespedeza, Trefoil and Vetch, apply Satori Fungicide to forages grown in the vicinity of soybeans and other legume crops (beans and peas) as a part of an Asian rust disease management strategy. Consult with local experts, university extension agents for the latest advice. Do not apply more than 2 sequential applications of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11.
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Specific Use Restrictions:

1. Do not apply more than 0.25 pound active ingredient per acre per cutting.
2. Do not apply more than 0.75 pound active ingredient per acre per season of azoxystrobin-containing products.
3. Do not apply within 14 days of grazing or harvest (14-day PHI) for forage and hay.
4. Not for use on rangeland.

Oilseed Crops Crambe Flax Mustard, black Mustard, field Mustard, Indian Rapeseed Rapeseed, Indian Safflower Sunflower Including all cultivars and/or hybrids of these. See complete list of oilseed crops below.	Alternaria leaf spot (<i>Alternaria</i> spp.) Downy mildew (<i>Plasmopora halstedii</i> , <i>Plasmopora helianthi</i>) Pasma (<i>Septoria linicola</i> grass)	6.0 to 15.5 (0.1 to 0.25)	Apply 6.0 fl oz of Satori Fungicide at early bud followed by 14.0 fl oz at about 45 days before harvest. A third application of 7.0 fl oz may be made 30 days before harvest. Applications may be made by ground, air or chemigation. Use a minimum of 10.0 gal of water/A for ground applications. Do not apply more than 2 sequential applications of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11.
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Complete List of Oilseed Crops: Borage; Calendula; Castor oil plant; Chinese tallowtree; Cottonseed; Crambe; Cuphea; Echium; Euphorbia; Evening primrose; Flax seed; Gold of Pleasure; Hare's ear mustard; Jojoba; Lesquerella; Lunaria; Meadowfoam; Milkweed; Mustard seed; Niger seed; Oil radish; Poppy seed; Rapeseed; Rose hip; Safflower; Sesame; Stokes aster; Sunflower; Sweet rocket; Tallowwood; Tea oil plant; Vernonia; cultivars, varieties, and/or hybrids of these.

Specific Use Restrictions:

1. Do not apply more than 27.0 fluid ounces of product per acre per season.
2. Do not apply more than 0.45 pound active ingredient per acre per season of azoxystrobin-containing products.
3. Do not apply within 30 days of harvest (30-day PHI).

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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
Peanuts	Soilborne Diseases – early season (in-furrow application) <i>Aspergillus</i> crown rot (<i>Aspergillus niger</i>) <i>Pythium</i> damping off (<i>Pythium</i> spp.) Stem rot/White mold Suppression (<i>Sclerotium rolfsii</i>)	0.40 to 0.80 fl oz/1000 row feet	Apply Satori in-furrow at planting for control of various seed/seedling diseases including early season suppression of Stem rot. See directions and rates under PRODUCT INFORMATION section.
	Soilborne Diseases – mid-late season Rhizoctonia peg and Pod rot (<i>Rhizoctonia solani</i>) Stem rot/White mold (<i>Sclerotium rolfsii</i>) Suppression Only: Cylindrocladium Black rot (<i>Cylindrocladium crotalariae</i>) Pythium pod rot (<i>Pythium myriotylum</i>)	12.0 to 24.5 (0.20 to 0.40)	Satori should be applied at approximately 60 and 90 days after planting as a foliar application. This application regime may be applied earlier in the season if environmental conditions favor disease development. These 2 applications of Satori will provide protection against the soilborne diseases and will also provide control of the foliar diseases listed for a 10- to 14-day period after each spray. Under heavy disease pressure and/or where there is high rainfall and/or irrigation, use 18.5 to 24.5 fl oz/A. For light disease pressure and dry environmental conditions (non-irrigated, low rainfall), use 12.0 to 24.5 fl oz/A. For control of <i>Pythium</i> , a rate of 24.5 fl oz/A is required. Additional applications of other fungicides on a Leaf spot application schedule will be required to provide season-long disease control of the leaf spot diseases. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance.
	Foliar Diseases Early Leaf Spot (<i>Cercospora arachidicola</i>) Late leaf spot (<i>Cercosporidium personatum</i>) Rust (<i>Puccinia arachidis</i>) Web blotch (<i>Phoma arachidicola</i>)	6.0 to 18.5 (0.10 to 0.30)	For foliar disease control only, a lower rate of Satori may be applied on a 10- to 14-day interval. Do not apply more than 2 sequential applications of Satori or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.

Specific Use Restrictions:

1. Do not apply more than 49.0 fluid ounces of product per acre per season.
2. Do not apply more than 0.8 pound active ingredient per acre per season of azoxystrobin-containing products.
3. Do not apply within 14 days of harvest (14-day PHI).

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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
Pecans	Anthracnose (<i>Glomerella cingulata</i>) Scab (<i>Cladosporium caryigenum</i>)	6.0 to 12.0 (0.10 to 0.20)	Begin applications prior to disease development and continue throughout the season on 7- to 21-day intervals following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Do not apply more than 2 sequential applications of Satori or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.

Specific Use Restrictions:

1. Do not apply more than 73.8 fluid ounces of product per acre per season.
2. Do not apply more than 1.2 pounds active ingredient per acre per season of azoxystrobin-containing products.
3. Do not apply within 45 days of harvest (45-day PHI).

Pistachios	Alternaria late blight (<i>Alternaria alternata</i>) Botryosphaeria panicle and Shoot blight (<i>Botryosphaeria dothidea</i>) Septoria leaf spot (<i>Septoria pistaciarum</i>)	6.0 to 15.5 (0.10 to 0.25)	Begin applications prior to disease development and continue throughout the season on 7- to 21-day intervals following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Do not apply more than 2 sequential applications of Satori or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
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Specific Use Restrictions:

1. Do not apply more than 92.3 fluid ounces of product per acre per season.
2. Do not apply more than 1.5 pounds active ingredient per acre per season of azoxystrobin-containing products.
3. Do not apply within 7 days of harvest (7-day PHI).

Potatoes	Black dot (<i>Colletotrichum coccodes</i>) Early blight (<i>Alternaria solani</i>) Late blight (<i>Phytophthora infestans</i>) Powdery mildew (<i>Erysiphe cichoracearum</i>)	6.0 to 20.0 (0.10 to 0.33)	Early blight - For a 7-day application schedule, use Satori Fungicide 6.2 fl oz product/A. For a 14-day application schedule, use the 12.0 fl oz product/A rate. Late blight - Apply Satori Fungicide at 12.0 fl oz product/A on a 7-day schedule. Initiate Late blight applications in a preventative schedule prior to disease development according to local practices. If Late blight symptoms develop or conditions favor disease, switch immediately to a non-Group 11 fungicide, using a 5-day schedule. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. For all other diseases, begin applications prior to disease development and continue throughout the season every 7 to 14 days following the resistance management guidelines. Use the high rate and the shorter interval if disease epidemics are severe. Applications may be made by ground, air or chemigation. Do not apply more than 1 application of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11.
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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
Potatoes cont'd.	Soilborne Diseases Black dot (<i>Colletotrichum coccodes</i>) Black scurf (<i>Rhizoctonia solani</i>) Silver scurf (<i>Helminthosporium solani</i>)	0.40 to 0.80 fl oz/ 1000 row ft	For soilborne/seedling disease control, see directions and rates under SOILBORNE/SEEDLING DISEASE CONTROL section.

Specific Use Restrictions:

1. Do not apply more than 123.0 fluid ounces of product per acre per season.
2. Do not apply more than 2.0 pounds active ingredient per acre per season of azoxystrobin-containing products.
3. Do not apply within 14 days of harvest.

Rice	Sheath/Stem Diseases Sheath blight (<i>Rhizoctonia solani</i>)	6.0 to 18.5 (0.10 to 0.30)	Apply prior to disease development. Applications may be made by ground, air or chemigation. For aerial application, use volumes of 5.0 to 10.0 GPA. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. For Sheath blight control, application rates may vary from 9.0 to 12.0 fl oz/A depending on the growth stage of the rice and the severity of the disease. Consult with your local extension personnel or Loveland Products, Inc. representative for information on Sheath blight control. For other Stem/Sheath diseases including Stem rot, Black sheath rot, Aggregate sheath spot and Sheath spot, apply when disease is less than 4 inches above water line usually between panicle differentiation (PD) + 5 days to PD + 10 days or at initial sign of disease. Under heavy disease pressure and conditions favorable for disease development, a second application may be applied. For Foliar and Panicle diseases, apply Satori Fungicide prior to disease development. Satori Fungicide must be applied as a preventative treatment for blast control and applied prior to favorable conditions for blast development. For Panicle blast, make an application at mid-boot to boot-split but prior to full head emergence. Make a second application when panicles are approximately 60 to 90% emerged from the boot (7 to 14 days later). When Satori Fungicide is being applied for Panicle blast on continuous rice acreage (no rotation to other crops), make no more than 2 sequential foliar applications of Satori Fungicide or other Group 11 fungicides over multiple years before alternating with a fungicide with a different mode of action. Do not make more than 2 foliar applications of Satori Fungicide or other Group 11 fungicide/A/season.
	Aggregate sheath spot (<i>Ceratobasidium oryzae-sativae</i> = <i>Rhizoctonia oryzae-sativae</i>) Black sheath rot (<i>Gaeumannomyces graminis</i> var. <i>graminis</i>) Sheath spot (<i>Rhizoctonia oryzae</i>) Stem rot (<i>Magnaporthe salvinii</i> = <i>Sclerotium oryzae</i> = <i>Nakateae sigmoidea</i>)	9.0 to 18.5 (0.15 to 0.30)	
	Foliar Diseases Brown leaf spot (<i>Cochliobolus miyabeanus</i>) Leaf smut (<i>Entyloma oryzae</i>) Narrow brown leaf spot (<i>Cercospora janseana</i> = <i>Cercospora oryzae</i>)		
	Panicle Diseases Kernel smut (<i>Tilletia barclayana</i> = <i>Neovossia barclayana</i>) Panicle blast (<i>Pyricularia grisea</i>)		

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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
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Rice cont'd.:

Specific Use Restrictions:

1. Do not treat rice fields used for aquaculture of fish and crustaceans.
2. Do not apply when weather conditions favor drift from treated areas to non-target aquatic habitat. Applicators must use care in making applications near non-target aquatic habitats.
3. Do not apply more than 0.70 pound active ingredient per acre per season of azoxystrobin-containing products.
4. Do not apply within 28 days of harvest (28-day PHI).
5. Do not allow release of irrigation or flood water for at least 14 days after the last application.

Sorghum	Anthracnose (<i>Colletotrichum graminicola</i>) Gray leaf spot (<i>Cercospora sorghi</i>)	6.0 to 15.5 (0.10 to 0.25)	Begin applications prior to disease development. Use the high rates under conditions favorable for severe disease pressure, dense plant canopies, or when susceptible varieties are planted. Contact extension personnel for local economic thresholds and timings for specific diseases in your area. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Do not apply more than 2 sequential applications of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11.
	Soilborne Diseases Damping-off (<i>Rhizoctonia solani</i> , <i>Pythium aphanadermatum</i>)	0.40 to 0.80 fl oz/ 1000 row ft	For soilborne/seedling disease control, see directions and rates under SOILBORNE/ SEEDLING DISEASE CONTROL section.

Specific Use Restrictions:

1. For grain and stover, do not apply more than 0.75 pound active ingredient per acre per season of azoxystrobin-containing products.
2. For forage, do not apply more than 0.5 pound active ingredient per acre per season of azoxystrobin-containing products.
3. Do not apply within 14 days of harvest (14-day PHI).

Soybeans Soybean, immature seed (edamame)	Aerial blight (<i>Rhizoctonia solani</i>) Alternaria leaf spot (<i>Alternaria</i> spp.) Anthracnose (<i>Colletotrichum truncatum</i>) Brown spot (<i>Septoria glycines</i>) Cercospora blight and leaf spot (<i>Cercospora kikuchii</i>) Frogeye leaf spot (<i>Cercospora sojina</i>) Pod and stem blight (<i>Diaporthe phaseolorum</i>) Rust (<i>Phakopsora</i> spp.)	6.0 to 15.5 (0.10 to 0.25)	Begin applications prior to disease development. Use the high rates under conditions favorable for severe disease pressure, dense plant canopies, or when susceptible varieties are planted. Contact Extension personnel for local economic thresholds and timings for specific diseases in your area. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Soybean rust: Satori Fungicide may be used at 4.0 fl oz/A when tank mixed with a triazole registered for use on soybean Rust. Do not apply more than 2 sequential applications of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11.
	Soilborne Diseases <i>Rhizoctonia solani</i> (<i>Rhizoctonia solani</i>) Southern blight (<i>Sclerotium rolfsii</i>)	0.40 to 0.80 fl oz/ 1000 row ft	For soilborne/seedling disease control, see directions and rates under SOILBORNE/ SEEDLING DISEASE CONTROL section.

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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
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Soybeans cont'd.:

Specific Use Restrictions:

1. Do not apply more than 92.3 fluid ounces of product per acre per season.
2. Do not make more than 1 application at 15.5 fluid ounces product per acre or 0.25 pound active ingredient per acre to soybean forage and hay.
3. Do not apply more than 1.5 pounds active ingredient per acre per season of azoxystrobin-containing products.
4. Do not apply within 14 days (14-day PHI) of harvest of soybeans (beans).
5. May be applied the day of harvest (0-day PHI) to soybean forage and hay.

Stone Fruits Apricot Cherry, sweet Cherry, tart Nectarine Peach Plum Plumcot Prune	Brown rot blossom blight and Fruit rot (<i>Monilinia fructicola</i> , <i>M. laxa</i>)	12.0 to 15.5 (0.20 to 0.25)	For Brown rot blossom blight, begin applications at early bloom and continue through petal fall. For Brown rot on fruit, Satori may be applied to fruit up to the day of harvest. For Scab, begin applications at petal fall and continue at 7- to 14-day intervals. For all other diseases, begin application at the onset of disease as a protectant fungicide and continue on a 7- to 14-day schedule. For peaches only , 9.0 to 15.5 fl oz of Satori may be used for Scab control. Applications may be made by ground, air or chemigation. Do not apply more than 2 sequential applications of Satori or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
	Scab (<i>Cladosporium carpophilum</i>) Alternaria spot and Fruit rot (<i>Alternaria alternata</i>) Anthracnose (<i>Colletotrichum prunicola</i> , <i>C. gloeosporioides</i>) Leaf rust (<i>Tranzschelia discolor</i>) Powdery mildew (<i>Sphaerotheca pannosa</i> , <i>Podosphaera clandestina</i>) Shot hole (<i>Wilsonomyces carpophilus</i>)	6.0 to 15.5 (0.10 to 0.25)	

Specific Use Restrictions:

1. Do not apply more than 92.3 fluid ounces of product per acre per season.
2. Do not apply more than 1.5 pound active ingredient per acre per season of azoxystrobin-containing products.
3. Satori may be applied the day of harvest (0-day PHI).

Sugarcane	Brown rust (<i>Puccinia melanocephala</i>) Orange Rust (<i>Puccinia kuehnii</i>)	9.0 to 12.0 (0.15 to 0.20)	Begin applications prior to Rust development, and continue throughout the season every 14 to 28 days following resistance management guidelines. Scout fields and begin applications at the earliest sign of Rust. An adjuvant may be used at recommended rates. For ground applications, apply Satori in sufficient water volume for adequate coverage and canopy penetration. Applications may be made by ground, air or chemigation. Do not apply more than 2 sequential applications of Satori or other Group 11 fungicide, before alternation with a fungicide that is not in Group 11. Do not make more than 4 foliar applications of Satori or other Group 11 fungicide/A/yr.
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Specific Use Restrictions:

1. Do not apply more than 0.80 pound active ingredient per acre per season of azoxystrobin-containing products.
2. When applying by air, use no less than 5.0 gallons spray solution per acre.
3. Do not apply within 30 days of harvest (30-day PHI).

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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
Tobacco	Blue mold (<i>Peronospora tabacina</i>) Frogeye leafspot (<i>Cercospora nicotianae</i>) Target spot (<i>Rhizoctonia solani</i>)	6.0 to 12.0 (0.10 to 0.20)	Begin applications prior to disease development or at first indication that Blue mold is in the area. Do not apply Satori Fungicide as a curative application. If Blue mold is present in the field, initiate applications with Acrobat® MZ prior to a Satori Fungicide application. Apply on a 7- to 14-day interval with shorter intervals under conditions conducive to disease development. For ground applications, apply Satori Fungicide in sufficient water volume for adequate coverage and canopy penetration. For aerial application, use volumes of 10.0 to 15.0 GPA. Applications may be made by ground, air or chemigation. Do not apply Satori Fungicide on greenhouse seedlings. Do not tank mix with Thiodan. Tank mixing Satori Fungicide with insecticides formulated as ECs or containing high amounts of solvents, may cause some crop injury. Do not apply more than 1 application of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11. NOTE: Satori Fungicide may enhance weather flecking on the leaves of certain tobacco types. This does not affect yield and quality.

Specific Use Restrictions:

1. Do not apply more than 32.0 fluid ounces of product per acre per season.
2. Do not apply more than 0.52 pound active ingredient per acre per season of azoxystrobin-containing products.
3. May be applied the day of harvest (0-day PHI).

Tomatoes Tomatillos Subgroup 8-10A Including all cultivars and/or hybrids of these. See complete list of tomato crops below.	Anthracnose (<i>Colletotrichum coccodes</i>) Black mold (<i>Alternaria alternata</i>) Buckeye rot (<i>Phytophthora</i> spp.) Early blight (<i>Alternaria solani</i>) Powdery mildew (<i>Oidiopsis sicula</i>) Septoria leaf spot (<i>Septoria lycopersici</i>) Target spot (<i>Corynespora cassicola</i>)	5.0 to 6.2 (0.08 to 0.10)	Begin applications prior to disease development and continue throughout the season following the resistance management guidelines. For Late blight, apply at 5- to 7-day intervals. For all other tomato diseases, apply at 7- to 21-day intervals. Applications may be made by ground, air or chemigation. Do not apply more than 1 application of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11. Under certain weather conditions (particularly high temperatures) Satori Fungicide in combination with high rates of silicone-based or oil containing (petroleum or crop) additives or adjuvants may cause injury. Do not exceed 0.125% adjuvant (v/v). Consult a Loveland Products, Inc. representative for more information concerning additives or adjuvants. A tank mixture with Dimethoate may cause crop injury. On fresh market tomatoes do not use adjuvants or tank mix Satori Fungicide with any EC product.
	Late blight (<i>Phytophthora infestans</i>)	6.2 (0.10)	Under certain weather conditions (particularly high temperatures) Satori Fungicide in combination with high rates of silicone-based or oil containing (petroleum or crop) additives or adjuvants may cause injury. Do not exceed 0.125% adjuvant (v/v). Consult a Loveland Products, Inc. representative for more information concerning additives or adjuvants. A tank mixture with Dimethoate may cause crop injury. On fresh market tomatoes do not use adjuvants or tank mix Satori Fungicide with any EC product.

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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
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Tomatoes cont'd.:

Complete List of Tomato Crops: Bush tomato; Cocona; Currant tomato; Garden huckleberry; Goji berry; Groundcherry; Naranjilla; Sunberry; Tomatillo; Tomato; Tree tomato; cultivars, varieties, and/or hybrids of these.

Specific Use Restrictions:

1. Do not apply more than 37.0 fluid ounces of product per acre per season.
2. Do not apply more than 0.60 pound active ingredient per acre per season of azoxystrobin-containing products.
3. May be applied the day of harvest (0-day PHI).

Tree Nuts Beechnut Brazil nut Butternut Cashew Chestnut Chinquapin Filbert Hickory Macadamia Pecan Walnut	Alternaria leaf and Fruit spot (<i>Alternaria alternata</i>) Anthracnose (<i>Colletotrichum acutatum</i> , <i>Glomerella cingulata</i>) Eastern filbert blight (<i>Anisogramma anomale</i>) Late blight (<i>Alternaria alternata</i>) Scab (<i>Cladosporium carpophilum</i>) Septoria leaf spot (<i>Septoria pistaciarum</i>) Shot hole (<i>Wilsonomyces carpophilus</i>) Blossom blight (<i>Monilinia laxa</i> , <i>M. fructicola</i>)	6.0 to 12.0 (0.10 to 0.20)	Begin applications prior to disease development and continue throughout the season following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. For all other diseases begin applications prior to disease development and continue at 7- to 21-day intervals throughout the season. Do not apply more than 2 sequential applications of Satori or other Group 11 fungicides before alternation with a fungicide that is not in Group 11. For Blossom blight, begin applications at early bloom and continue through petal fall.
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Specific Use Restrictions:

1. Do not apply more than 73.8 fluid ounces of product per acre per season.
2. Do not apply more than 1.2 pound active ingredient per acre per season of azoxystrobin-containing products.
3. Do not apply within 45 days of harvest (45-day PHI).

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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
Tropical Fruit Acerola Atemoya Avocado Biriba Canistel Cherimoya Custard apple Dragon fruit Feijoa Guava Hama Jaboticaba Jackfruit Longan Loquat Lychee Mango Papaya Passionfruit Pawpaw Persimmon Pulasan Rambutan Sapodilla Sapote, black Sapote, mamey Sapote, white Soursop Star apple Starfruit Sugar apple Spanish lime Tamarind	Anthracnose (<i>Colletotrichum</i> spp.) Cercospora leaf spot (<i>Cercospora</i> spp.) Powdery mildew (<i>Erysiphe</i> spp.) Rust (<i>Puccinia</i> spp.)	6.0 to 15.5 (0.10 to 0.25)	Begin applications prior to disease development and continue throughout the season on a 10- to 14-day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Follow the resistance management guidelines in the Resistance Management Section. Do not apply more than 2 sequential applications of Satori or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
	Soilborne Diseases Seedling root rot Basal stem rot (<i>Rhizoctonia solani</i>)	0.40 to 0.80 fl oz/ 1000 row ft	For soilborne/seedling disease control, see directions and rates under the SOILBORNE/SEEDLING DISEASE CONTROL section.

Specific Use Restrictions:

1. Do not apply more than 92.3 fluid ounces of product per acre per season.
2. Do not apply more than 1.5 pound active ingredient per acre per season of azoxystrobin-containing products.
3. Satori may be applied the day of harvest (0-day PHI).

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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
Vegetables, leaves of root and tuber, group and root subgroup Beet, garden and sugar ^{1,2} Burdock ^{1,2} Carrot ^{1,2} Cassava, bitter and sweet ¹ Celeriac (celery root) ^{1,2} Chervil, turnip-rooted ^{1,2} Chicory ^{1,2} Dasheen (taro) ¹ Ginseng ² Horseradish ² Parsley, turnip-rooted ² Parsnip ^{1,2} Radish ^{1,2} Radish, oriental (daikon) ^{1,2} Rutabaga ^{1,2} Salsify ² Salsify, black ^{1,2} Salsify, Spanish ² Skirret ² Sweet potato ¹ Tanier ¹ Turnip ^{1,2} Yam, true ¹	Foliar Diseases Alternaria leaf spot (<i>Alternaria</i> spp., <i>A. alternata</i>) Ascochyta leaf spot (<i>Ascochyta cynarae</i>) Rust (<i>Uromyces betae</i> , <i>Puccinia helianthi</i>) White rust (<i>Albugo tragopogonis</i>)	6.0 to 20.0 (0.10 to 0.33)	For Powdery mildew, make preventative applications on a 5- to 7-day schedule. For all other diseases, begin applications prior to disease development and continue throughout the season every 7 to 14 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Do not apply more than 1 application of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11. For soilborne/seedling disease control, see directions and rates under SOILBORNE/SEEDLING DISEASE CONTROL section. For sugar beets apply 3- to 7-inch banded applications in a minimum of 10.0 gal/A at the 2- to 8-leaf stage. Tank mixtures of Satori Fungicide with COC or MSO may result in crop injury. If cool soil conditions are expected after planting which could result in an extended period of plant emergence, Satori should not be applied in-furrow. If using Satori at the time of planting, do not use a starter fertilizer with it. Consult a Loveland Products, Inc. representative for more information concerning additives or adjuvants.
	Cercospora leaf spot (<i>Cercospora betae</i> , <i>C. pastinaceae</i>) Powdery mildew (<i>Erysiphe polygoni</i> , <i>Leveillula taurica</i>)	9.0 to 15.5 (0.15 to 0.25)	
	Soilborne Diseases Circular spot, Southern blight (<i>Sclerotium rolfsii</i>) Pythium root rot (<i>Pythium aphanidermatum</i>) Rhizoctonia stem canker, Crown rot (<i>Rhizoctonia solani</i>)	0.40 to 0.80 fl oz/ 1000 row ft	

¹ = Vegetable leaves of root and tuber subgroup

² = Root vegetable subgroup

Specific Use Restrictions:

- Do not apply more than 123.0 fluid ounces of product per acre per season.
- Do not apply more than 2.0 pounds active ingredient per acre per season of azoxystrobin-containing products.
- May be applied the day of harvest (0-day PHI).
- Apply as an in-furrow spray in a minimum of 10.0 gallons per acre.

Vegetables, tuberous and corm, subgroup Arracacha Arrowroot Artichoke, Chinese and Jerusalem Canna, edible Cassava, edible, bitter and sweet Chayote (root) Chufa Dasheen (Taro) Ginger Leren Potato Sweet potato Tanier Turmeric Yam, bean Yam, true	Foliar Diseases Alternaria leaf spot (<i>Alternaria</i> spp., <i>A. Alternata</i>) Ascochyta leaf spot (<i>Ascochyta cynarae</i>) Rust (<i>Uromyces betae</i> , <i>Puccinia helianthi</i>) White rust (<i>Albugo tragopogonis</i>)	6.0 to 20.0 (0.10 to 0.33)	For Powdery mildew, make preventative applications on a 5- to 7-day schedule. For all other diseases, begin applications prior to disease development and continue throughout the season every 7 to 14 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Do not apply more than 1 application of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11.
	Cercospora leaf spot (<i>Cercospora betae</i> , <i>C. pastinaceae</i>) Powdery mildew (<i>Erysiphe polygoni</i> , <i>Leveillula taurica</i>)	9.0 to 15.5 (0.15 to 0.25)	

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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
Vegetables, tuberous and corm, Subgroup cont'd.	Soilborne Diseases Circular spot, Southern blight (<i>Sclerotium rolfsii</i>) Pythium root rot (<i>Pythium aphanidermatum</i>) Rhizoctonia stem canker, Crown rot (<i>Rhizoctonia solani</i>)	0.40 to 0.80 fl oz/ 1000 row ft	For soilborne/seedling disease control, see directions and rates under SOILBORNE/SEEDLING DISEASE CONTROL section.

Specific Use Restrictions:

1. Do not apply more than 123.0 fluid ounces of product per acre per season.
2. Do not apply more than 2.0 pounds active ingredient per acre per season of azoxystrobin-containing products.
3. Do not apply within 14 days of harvest (14-day PHI).

Watercress	Cercospora leaf spot (<i>Cercospora</i> spp.)	6.0 to 15.5 (0.10 to 0.25)	Begin applications prior to disease development and continue throughout the season on a 7- to 10-day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. Do not apply more than 2 sequential applications of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11.
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Specific Use Restrictions:

1. Do not apply more than 93.2 fluid ounces of product per acre per season.
2. Do not apply more than 1.5 pounds active ingredient per acre per season of azoxystrobin-containing products.
3. Do not apply within 7 days of harvest (7-day PHI).

Wheat Triticale	Leaf rust (<i>Puccinia triticina</i> = <i>Puccinia recondita f.sp. tritici</i>) Septoria leaf and glume blotch (<i>Septoria tritici</i> , <i>Septoria nodorum</i>) Stem rust (<i>Puccinia graminis</i>) Stripe rust (<i>Puccinia striiformis</i>) Tan spot (<i>Pyrenophora tritici- repentis</i>)	4.0 to 12.0 (0.07 to 0.20)	Satori should be applied prior to disease development. Applications may be made by ground, air or chemigation. A crop oil concentrate adjuvant may be added at 1.0% v/v to optimize efficacy. Do not apply more than 2 sequential applications of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11. Do not make more than 2 applications of Satori Fungicide or other Group 11 fungicide/season.
	Powdery mildew (<i>Erysiphe graminis</i>)	7.5 to 11.0 (0.125 to 0.175)	

Specific Use Restrictions:

1. Do not apply later than Feekes growth stage 10.5.
2. Do not apply more than 0.40 pound active ingredient per acre per season of azoxystrobin-containing products.
3. Do not apply within 7 days (7-day PHI) for forage and hay.
4. Do not apply within 14 days of grazing (14-day PHI).

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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
Wild Rice	Brown Spot (<i>Bipolaris oryzae</i> or <i>Bipolaris sorokiana</i>) Also known as <i>Helminthosporium oryzae</i> and <i>H. sativum</i> Stem Rot (<i>Nakataea sigmoidea</i>)	12.5 to 15.5 (0.20 to 0.25)	Apply prior to disease development. Applications may be made by ground, air, or chemigation. For aerial application, use volumes of 5.0 to 10.0 GPA. An adjuvant such as Liberate or Franchise may be added to enhance consistency and performance. For foliar diseases, apply Satori Fungicide prior to disease development. Apply during tillering, boot, early heading, or at initial sign of disease. Under heavy disease pressure and conditions favorable for disease development, a second application may be applied. Do not apply more than 2 sequential applications of Satori Fungicide or other Group 11 fungicide before alternation with a fungicide that is not in Group 11. Do not make more than 2 applications of Satori Fungicide or other Group 11 fungicide/season.

Specific Use Restrictions:

1. Do not treat wild rice fields used for aquaculture of fish and crustaceans.
2. Do not apply when weather conditions favor drift from treated areas to non-target aquatic habitat. Applicators must use care in making applications near non-target aquatic habitats.
3. Do not apply more than 0.70 pound active ingredient per acre per season of azoxystrobin-containing products.
4. Do not apply within 28 days of harvest (28-day PHI).
5. Do not allow release of irrigation or flood water for at least 14 days after the last application.

SATORI FUNGICIDE RATE CONVERSION CHART

Fl Oz Product/A	Lb Active Ingredient/A	Treated A/Gal Product
4.0	0.07	32.0
5.0	0.08	25.6
5.5	0.09	23.2
6.0	0.10	21.3
6.2	0.10	21.3
7.0	0.11	18.3
8.5	0.14	15.4
9.0	0.15	14.2
9.2	0.15	14.2
10.0	0.16	13.0
11.0	0.18	11.6
12.0	0.20	10.4
12.3	0.20	10.4
13.0	0.21	9.8
14.0	0.23	9.1
15.4	0.25	8.3
15.5	0.25	8.3
18.3	0.30	6.9
18.5	0.30	6.9
20.0	0.33	6.4
20.3	0.33	6.4
24.5	0.40	5.2

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Post Harvest Applications

Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks								
Bananas Plantains	Crown rot/Crown mold (<i>Colletotrichum musae</i> , <i>Fusarium pallidoroseum</i> , <i>Acremonium</i> spp., <i>Ceratocystis paradoxa</i> , <i>Glomerella cingulata</i> , <i>Penicillium</i> spp.)	200 to 400 ppm solution	<p>Apply Satori as a single application of a 200 to 400 ppm solution to achieve good coverage. The application may be made as a spray, dip or may be painted onto the cut ends of the bananas. Application of the 200 ppm rate is appropriate for short distance transportation (e.g., within the USA). When a longer time in transport is expected (export), use the 300 to 400 ppm rate. If alum (1% w/v) is added to the spray solution, stir the suspension frequently as sedimentation and flocculation may occur. Addition of a non-ionic surfactant (0.10% v/v) may improve the compatibility of this mixture.</p> <p>Amount of Satori to Mix 100 Gal for Post-Harvest Banana Applications</p> <table border="1" data-bbox="1003 819 1469 961"> <thead> <tr> <th>Satori Use Rate</th> <th>100 Gal Spray Solution</th> </tr> </thead> <tbody> <tr> <td>200 ppm</td> <td>11.0 fl oz</td> </tr> <tr> <td>300 ppm</td> <td>15.0 fl oz</td> </tr> <tr> <td>400 ppm</td> <td>21.0 fl oz</td> </tr> </tbody> </table>	Satori Use Rate	100 Gal Spray Solution	200 ppm	11.0 fl oz	300 ppm	15.0 fl oz	400 ppm	21.0 fl oz
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Specific Use Restrictions:

1. Do not make more than 1 application to bananas as post-harvest treatment.
2. Satori may be degraded by exposure to direct sunlight. Do not store treated fruit in direct sunlight.

<p>Citrus Fruit Crop Group 10-10 Calamondin Citron Grapefruit Kumquat Lemon Lime Mandarin Orange (sour and sweet) Pummelo Satsuma Mandarin Tangerine Uniq fruit Including all cultivars and/or hybrids of these. See complete list of citrus fruit crops below.</p>	<p>Penicillium decays Green mold Whisker mold Suppression of Blue mold (<i>Penicillium</i> spp.) Diplodia stem-end rot (<i>Diplodia natalensis</i>) Phomopsis stem-end rot (<i>Phomopsis citri</i>)</p>	<p>See Remarks</p>	<p>Use Satori as a dip, drench, flood, or spray for the control of certain post-harvest diseases.</p> <p>For high volume (dilute) applications: Mix 32.0 to 64.0 fl oz of Satori in 25.0 to 100 gal of an appropriate water, wax/oil emulsion or aqueous dilution of a wax/oil emulsion for the crop being treated. Use T-Jet, flooders, or similar application systems.</p> <p>For low volume (concentrate) applications: Mix 32.0 to 64.0 fl oz of Satori in 7.0 to 25.0 gal of water, wax/oil emulsion, or aqueous dilution of wax/oil emulsion for the crop being treated. Apply to 250,000 lb of fruit. Use a controlled droplet type of applicator or similar system.</p> <p>For dip applications: Mix 32.0 to 64.0 fl oz of Satori in 100 gal of water, wax/oil emulsion, or aqueous dilution of wax/oil emulsion. Dip for approximately 30 seconds and allow fruit to drain. For maximum decay control, treat citrus fruit once before storage and once after storage, just prior to marketing.</p>
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Crop	Target Diseases	Use Rate Fl Oz Product/A (Lb AI/A)	Remarks
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Citrus Fruit Crop Group 10-10 cont'd.:

Complete List of Citrus Fruit Crops: Australian Desert lime (*Eremocitrus glauca*); Australian finger lime (*Microcitrus australasica*); Australian round lime (*Microcitrus australis*); Brown River finger lime (*Microcitrus papuana*); Calamondin (*Citrofortunella microcarpa*); Citron (*Citrus medica*); Citrus hybrids, Citrus spp., *Eremocitrus* spp., *Fortunella* spp., *Microcitrus* spp., and *Poncirus* spp.; Grapefruit (*Citrus paradise*); Japanese summer grapefruit (*Citrus natsudaidai*); Kumquat (*Fortunella* spp.); Lemon (*Citrus limon*); Lime (*Citrus aurantiifolia*); Mediterranean mandarin (*Citrus deliciosa*); Mount White lime (*Microcitrus garrowayae*); New Guinea wild lime (*Microcitrus warburgiana*); Orange, sour (*Citrus aurantium*); Orange, sweet (*Citrus sinensis*); Pummelo (*Citrus maxima*); Russell River lime (*Microcitrus inodora*); Satsuma mandarin (*Citrus unshiu*); Sweet lime (*Citrus limetta*); Tachibana orange (*Citrus tachibana*); Tahiti lime (*Citrus latifolia*); Tangelo (*Citrus x tangelo*); Tangerine (mandarin) (*Citrus reticulata*); Tangor (*Citrus nobilis*); Trifoliolate orange (*Poncirus trifoliolate*); Uniq fruit (*Citrus aurantium* Tangelo group); cultivars, varieties and/or hybrids of these.

Specific Use Restrictions:

1. Do not make more than 2 applications to citrus fruit as post-harvest treatments.
2. Satori may be degraded by exposure to direct sunlight. Do not store treated fruit in direct sunlight.

Tuberous and Corm, Subgroup 1C- Post Harvest

Arracacha; Arrowroot; Artichoke; Jerusalem; Canna, edible; Cassava, bitter and sweet; Chayote (root); Chufa; Dasheen; Ginger; Leren; Potato; Sweet potato; Tanier; Tumeric; Yam bean; Yam, true.

Use Satori as a post-harvest spray for the control of certain post-harvest rots caused by Silver scurf (*Helminthosporium solani*), *Fusarium* species, Late blight (*Phytophthora infestans*), and Pink rot (*Phytophthora erythroseptica*).

Application Method	Diseases	Use Rate Fl Oz	Remarks
In-Line Aqueous Spray Application	Silver scurf Fusarium dry rot Late blight Pink rot	0.6 fl oz/ton of tubers	<ul style="list-style-type: none"> • Ensure proper coverage of the tubers. Tubers should be tumbling as they are treated. • Mix the fungicide solution in an appropriate amount of water for the crop being treated. • Use T-jet, CDA, or similar application system.

Do not make more than 1 post-harvest application to the tubers.

Specific Use Restrictions:

- Do not use on seed potatoes or seed pieces.
- Ensure the Satori solution remains in suspension by using agitation.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE STORAGE: Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at www.acrecycle.org. If not recycled, then puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

For packages up to 5 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 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. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

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Storage & Disposal cont'd.:

For packages greater than 5 gallons and less than 56 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

For packages greater than 56 gallons: 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.

For refillable containers: 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.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC – 1-800-424-9300.

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