

XIPHOSIN™

fungicide

Broad-spectrum fungicide for control of plant diseases

ACTIVE INGREDIENTS:	
Azoxystrobin	13.5%
Propiconazole	11.7%
OTHER INGREDIENTS:	74.8%
TOTAL:	100.0%

A liquid soluble concentrate formula that contains 1.02 lb. a.i. propiconazole and 1.18 lb. a.i. azoxystrobin per gallon.

KEEP OUT OF REACH OF CHILDREN WARNING/AVISO

See Additional Precautionary Statements and Directions For Use Inside Booklet.

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.)

FIRST AID	
IF IN EYES	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.
IF SWALLOWED	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.
IF ON SKIN OR CLOTHING	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
IF INHALED	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency medical assistance, call SafetyCall: 1-844-685-9173. For chemical emergency: spill, leak, fire, exposure or accident, call CHEMTREC: 1-800-424-9300.	

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)

EPA Reg. No. 92647-1-92488

EPA Est. No.: 19713-GA-002(D); 39578-TX-001(M); 67545-AZ-001(G)

First letter(s) in lot number correspond to letter(s) following the EPA Est. No.

AGBIOME™
INNOVATIONS

Manufactured for: AgBiome Innovations™, Inc.
P.O. Box 14069, Research Triangle Park, NC 27709

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
WARNING/AVISO**

Causes substantial but temporary eye injury. Harmful if swallowed. Do not get in eyes or on clothing. Wear appropriate protective eyewear such as goggles, face shield, or safety glasses. Avoid contact with skin or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

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

USER SAFETY REQUIREMENTS

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow the 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

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

USER SAFETY RECOMMENDATIONS

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. 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 can be persistent for several months or longer. Azoxystrobin has degradation products which have properties similar to chemicals which are known to leach through soil to ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow may result in ground water contamination.

Azoxystrobin and propiconazole are toxic to freshwater and estuarine/marine fish; and azoxystrobin is toxic to aquatic invertebrates. Do not apply directly to water except as specified on this label. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

Notify state and/or Federal authorities and AgBiome Innovations™, Inc. immediately if you observe any adverse environmental effects due to use of this product.

PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow to come into contact with oxidizing agents. Hazardous chemical reaction may occur.

DIRECTIONS FOR USE

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

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

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 12 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:

1. Coveralls
2. Chemical-resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber
3. Shoes plus socks
4. Protective eyewear

PRODUCT USE RESTRICTIONS

Do not use in nurseries, greenhouses or landscape plantings.

PRODUCT INFORMATION

Xiphosin™ is a broad-spectrum, preventative fungicide with systemic and curative properties recommended for the control of many important plant diseases.

Xiphosin™ Fungicide may improve the yield and/or quality of the crop. These additional benefits are due to positive effects on plant physiology. The effects may vary according to other factors such as the crop, crop hybrid, or environment. Xiphosin™ may be applied as a foliar spray in alternating spray programs or in tank mixes with other crop protection products. All applications must be made according to the use directions that follow.

PRODUCT USE INSTRUCTIONS

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

Adjuvants: For some uses on this label, a spreading/penetrating type adjuvant such as a non-ionic surfactant, crop oil concentrate, or blend may be added at the manufacturer's recommended rates. Adjuvants that contain some form of silicone can contribute to phytotoxicity. When an adjuvant is used with this product, the use of an adjuvant that meets the standards of the Chemical Producers and Distributors Association (CPDA) adjuvant certification program is recommended.

Crop Tolerance/Phytotoxicity: Xiphosin™ demonstrates 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 can contribute to phytotoxicity. Under certain environmental conditions, tank mixes of Xiphosin™ plus herbicides and/or fertilizers may cause crop injury in barley, triticale and wheat.

Efficacy: Under certain conditions conducive to extended infection periods, use another registered fungicide for additional applications if maximum amount of Xiphosin™ has been used. If resistant isolates to Group 3 or Group 11 fungicides are present, efficacy can be reduced. The higher rates in the rate range and/or shorter spray intervals may be required under conditions of heavy infection pressure, highly susceptible varieties, or when environmental conditions conducive to disease exist.

Integrated Pest Management: Integrate Xiphosin™ into an overall disease and pest management strategy whenever the use of a fungicide is required. Cultural practices known to reduce disease development must be followed. The SPECIFIC USE DIRECTIONS section in this label identifies specific IPM recommendations for each crop. Consult your local agricultural authorities for additional IPM strategies established for your area. Xiphosin™ may be used in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.

RESISTANCE MANAGEMENT

GROUP 3 - 11 FUNGICIDES

Xiphosin™ is a mixture of Group 3 (propiconazole) and Group 11 (azoxystrobin) fungicides. Xiphosin™ has two modes of action: Group 3: DMI (Demethylation Inhibitor) of sterol biosynthesis which disrupts membrane synthesis, and Group 11: inhibitor of the Qo (quinone outside) site within the electron transport system which disrupts fungal respiration. Fungal pathogens can develop resistance to products with the same mode of action when used repeatedly. Because resistance development cannot be predicted, use of this product must 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 rotating and/or tank mixing with products having different modes of action or limiting the total number of applications per season. AgBiome Innovations™, Inc. encourages responsible resistance management to ensure effective long-term control of the fungal diseases on this label.

Follow the specific crop guidelines that limit the total number of sprays on a crop and the required alternations with fungicides from other resistance management groups. In situations requiring multiple

sprays, develop season long spray programs for Group 11 QoI (quinone outside inhibiting) fungicides. The program must meet the goal of no more than 1/3 of the total sprays per season, when a Group 11 fungicide is used as a solo product, or 1/2 the total sprays when a Group 11 fungicide is used in a mixture.

Programs that include both solo Group 11 products and/or mixes containing Group 11 products must be no more than ½ the total sprays. Xiphosin™ must not be alternated or tank mixed with any fungicide to which resistance has already developed.

Rotational Crops:	
Rotational Crops	Planting Time From Last Xiphosin™ Application
Bulb crops Carrots Celery (and other leaf petiole crops - subgroup 4B) Cereals (wheat, barley, triticale) Corn (field, seed, popcorn, and sweet) Grasses grown for seed Mint Oats Peanuts Rice Rye Sorghum Soybeans Strawberries Sugar beets Wild rice	0 days
Buckwheat Millet	12 Months
Alfalfa (if propiconazole rate does not exceed 0.22 lb. ai/acre/year)	75 days
All Other Crops Intended for Food and Feed	105 days

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.

ATTENTION

Xiphosin™ 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 Xiphosin™ 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 Xiphosin™ to spray apple trees. Even trace amounts can cause unacceptable phytotoxicity to certain apple and crabapple varieties.

MIXING AND APPLICATION METHODS

Xiphosin™ 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.

Spray Equipment

Nozzles

- Equip sprayers with nozzles that provide accurate and uniform application.
- Nozzles must be 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.
- Screens placed on suction side of pump must be 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 recommendations.

Pump

- Use a pump with capacity to:
 1. Maintain 35-40 psi at nozzles.
 2. Provide sufficient agitation in tank to keep mixture in suspension. Use a jet agitator or liquid sparge tube for agitation.

For more information on spray equipment and calibration, consult sprayer manufacturer's and state recommendations. For specific local directions and spray schedules, consult the current state agricultural recommendations.

Mixing Instructions

- Xiphosin™ is a suspoemulsion (SE) 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 rinse water by application to an already treated area.

Xiphosin™ Alone (no tank mix)

- Add ½- 2/3 of the required amount of water to the spray or mixing tank.
- With the agitator running, add Xiphosin™ to the tank.
- Continue agitation while adding the remainder of the water.
- Begin application of the spray solution after Xiphosin™ has completely dispersed into the mix water.
- Maintain agitation until all of the mixture has been sprayed.

Xiphosin™ + Tank Mixtures:

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Xiphosin™ is usually compatible with all tank-mix partners listed on this label. Do not combine Xiphosin™ in the spray tank with pesticides, surfactants, or fertilizers unless compatibility charts or your own prior use has shown that the combination is physically compatible, effective, and non-injurious to the crop under your conditions of use. To determine the physical compatibility of Xiphosin™ with other products, use a jar test. Using a quart jar, add the proportionate amounts of the products to 1 qt. of water. Add wettable powders and water dispersible granular products first, then liquid flowables (which includes suspoemulsions), followed by emulsifiable concentrates and additives/adjuvants 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.

Mixing in the Spray Tank

- Add ½ 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 in the "Xiphosin™ + Tank Mixtures" section.
- Allow the material to completely dissolve and disperse into the mix water. Continue agitation while adding the remainder of the water and the Xiphosin™ to the spray tank.
- Allow Xiphosin™ to completely disperse.
- Spray the mixture with the agitator running.
- Observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank-mix product label.
- No label dosage rate may be exceeded, and the most restrictive label directions and limitations must be followed.
- This product may not be mixed with any product which prohibits such mixing.

Application Instructions

Avoid application under conditions when uniform coverage cannot be obtained or when excessive spray drift may occur. Do not apply in a manner that will result in exposure to humans or animals.

Ground Application

- For field crops (non-trees), apply in a minimum of 10 gallons of water per acre unless specified otherwise.
- For tree crops, apply in a minimum of 50 gallons of water per acre unless specified otherwise.
- Thorough coverage is necessary to provide good disease control.

Aerial Application

- Use only on crops where aerial applications are indicated.
- For field crops (non-trees), apply in a minimum spray volume of 2 gallons per acre unless specified otherwise.
- For ULV applications (corn), apply in a minimum spray volume of 1 gallon per acre. For ULV applications, thorough coverage is necessary to provide good results. Please refer to the "Application" instructions section for details regarding best practices to achieve good coverage.
- For tree crops, apply in a minimum of 10 gallons of water per acre unless specified otherwise.
- Thorough coverage is necessary to provide good disease control.
- Xiphosin™ 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 Xiphosin™ where spray drift may reach apple trees.

Application 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 0.125-0.25 inches per acre of water. 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 should the need arise.

Spray Preparation: Chemical tank and injector system must be thoroughly cleaned. Flush system with clean water.

Operating Instructions

1. 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.
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 should the need arise.
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.
9. Do not apply when wind speed favors drift beyond the area intended.

Center Pivot Irrigation Equipment

Notes: (1) Use only with drive systems which provide uniform water distribution. (2) Do not use end guns when chemigating Xiphosin™ through center pivot systems because of non-uniform application.

- Determine the size of the area to be treated.
- Determine the time required to apply 0.125-0.25 inches per acre of water over the entire area to be treated when the system and injection equipment are operated at normal pressures as recommended by the equipment manufacturer. When applying Xiphosin™ through irrigation equipment use the lowest obtainable water volume while maintaining uniform distribution. Run the system at 80-95% of the manufacturer's rated capacity.
- Using water, determine the injection pump output when operated at normal line pressure.
- Determine the amount of Xiphosin™ required to treat the area covered by the irrigation system.
- Add the required amount of Xiphosin™ 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 Xiphosin™ 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 Xiphosin™ 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 Xiphosin™ through irrigation equipment use the lowest obtainable water volume while maintaining uniform distribution.
- Determine the amount of Xiphosin™ required to treat the area covered by the irrigation system.
- Add the required amount of Xiphosin™ 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 Xiphosin™ solution has cleared the last sprinkler head.

Specific Instructions for Public Water Systems

- 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.
- Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone (RPZ), back-flow preventer or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 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.
- 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.
- 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.
- Do not apply when wind speed favors drift beyond the area intended for treatment.

SPECIFIC DIRECTIONS FOR USE

ALMONDS		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Brown Rot Blossom Blight <i>(Monilinia spp.)</i>	14 - 26	Apply Xiphosin™ at early bloom stage. If disease pressure is low, make a second application of 14 fl. oz./A as needed through petal fall. Under conditions of high disease pressure and/or very susceptible varieties, make applications as needed at 50-75% bloom and petal fall. Xiphosin™ may be used on only 2 blossom blight applications. Orbit® Fungicide may be used for one of these applications.
Alternaria Leaf Spot <i>(A. Alternata)</i> Anthracnose <i>(Collectotrichum acutatum)</i> Leaf Blight <i>(Seimatosporium lichenicola)</i> Leaf Rust <i>(Tanzschelia discolor)</i> Scab <i>(Cladosporium carpophilum)</i> Shothole <i>(Wilsonomyces carpophilus)</i>	17.5 - 26	Apply Xiphosin™ beginning at bud break on a 7- to 14-day interval. Make no more than 2 consecutive applications before switching to a non-Group 11 fungicide.

NOTE: Almond diseases are more effectively controlled by ground application, using sufficient water volume to provide thorough and uniform coverage.

APPLICATION METHOD: Xiphosin™ must be applied by ground or by air (minimum of 15 gal./A). Use aerial application if necessary but disease control may be reduced. Apply Xiphosin™ by air only at growth stages prior to and including 5 weeks after petal fall.

ALMOND USE RESTRICTIONS:

- Do not apply more than 112 fl. oz./A of Xiphosin™ per crop.
- Do not apply more than 0.9 lb. a.i. of propiconazole-containing products/A/year.
- Do not apply more than 1.5 lb. a.i. of azoxystrobin-containing products/A/year.
- Do not graze livestock in treated areas or cut treated cover crop for feed.
- Do not apply within 60 days of harvest (60-day PHI).

BANANAS, PLANTAINS		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Black Sigatoka <i>(Mycosphaerella ljiensis)</i> Yellow Sigatoka <i>(Mycosphaerella musicola)</i>	10.5	Apply Xiphosin™ before disease symptoms appear at the onset of the rainy season. Apply 10.5 fl. oz. of Xiphosin™/A in 10-20 gallons of water/A. Apply no more than 2 consecutive applications on a 21- to 25-day schedule before rotating to another labeled product with a different mode of action for at least 2 sprays. A maximum of 8 applications can be made. If possible, it is recommended to have at least 2 consecutive months 'triazole free' during the period of lower disease pressure.

APPLICATION METHOD: Apply Xiphosin™ by ground (minimum of 15 gal./A) or aerial application (minimum of 5 gal./A).

BANANA & PLANTAIN USE RESTRICTIONS:

1. Do not apply Xiphosin™ within 100 yards of non-bagged bananas.
2. Do not apply Xiphosin™ on bananas unless they are protected by polyethylene bags.
3. Do not apply Xiphosin™ on plantains if the fruit present are not protected with polyethylene bags.
4. Do not apply more than 84 fl. oz. of Xiphosin™ during each growing season (this includes any pre-harvest sprays).
5. Do not feed whole bananas and plantains to animals.
6. Do not apply more than 0.67 lb. a.i. propiconazole-containing products/A/year.
7. Do not apply more than 1.08 lb. a.i. azoxystrobin-containing products/A/year.

BEANS, DRY and SUCCULENT		
Bean (<i>Cicer arietinum</i>), (<i>Lupinus</i> spp.), (<i>Phaseolus</i> sod.), (<i>Vigna</i> spp.), (<i>Vicia faba</i>) See below for complete list of dry and succulent beans		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Alternaria Blight 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> Bean Rust <i>(Uromyces appendiculatus)</i> Rust <i>(Phakopsora</i> spp) Southern Blight <i>(Sclerotium rolfsii)</i> Web Blight <i>(Rhizoctonia solani)</i>	14	Apply when conditions are conducive for disease. Up to three applications can be made on a 7-14 day interval. NOTE: On certain bean varieties azoxystrobin application can cause crinkled and/or greener leaves. Yields of beans displaying these characteristics have not been reduced.

Bean (*Cicer arietinum*), (*Lupinus* spp.), (*Phaseolus* sod.), (*Vigna* spp.), (*Vicia faba*) See below for complete list of dry and succulent beans

Dry and Succulent Beans *Cicer arietinum* (chickpea garbanzo bean); *Lupinus* spp (including sweet lupine, white sweet lupine, white lupine and grain lupine). *Phaseolus* spp. (including kidney bean, lima bean, mung bean, navy bean, pinto bean, snap bean and waxbean). *Vicia faba* (broad bean fava bean); *Vigna* spp. (including asparagus, bean, blackeyed pea and cowpea).

APPLICATION METHOD: Apply Xiphosin™ by ground or air.

BEAN USE RESTRICTIONS

1. Not for use on cowpea cultivars intended for livestock feeding only
2. Do not apply more than 42 oz. of Xiphosin™/crop/A
3. Do not apply more than 0.34 lb a.i. of propiconazole containing products/A/year.
4. Do not apply more than 1.5 lb a.i. of azoxystrobin containing products/A/year.
5. Do not apply within 7 days of harvest (7 day PHI) for succulent beans
6. Do not apply within 14 days of harvest (14 day PHI) for dry beans

BERRIES, BUSHBERRY SUBGROUP

Blueberry (high and low bush), Cranberry, Highbush, Currant, Black Currant, Red Elderberry, Gooseberry Including all cultivars and/or hybrids of these. See below for complete list of bushberry subgroup

Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Botryosphaeria Canker <i>(Botryosphaeria spp)</i> Leaf Spot and Stem Canker <i>(Septoria albopunctata)</i> Leaf Spot <i>(Septoria spp)</i> Mummyberry <i>(Monilinia vaccini corymbosi)</i> Phomopsis Twig Blight, Fruit Rot, and Stem Canker <i>(P. vaccini)</i> Powdery Mildew <i>(Microsphaera vaccini)</i> Rust <i>(Pucciniastrum vaccini)</i>	14 - 21	For mummyberry make the first application of Xiphosin™ beginning at green tip and repeat in 7 to 10 days if conditions are favorable for disease development make an additional application at pink bud and repeating every 7 to 10 days through petal fall. Do not apply more than 2 consecutive applications before alternating to a non Group 11 containing fungicide For other diseases listed, apply Xiphosin™ prior to disease development and continue throughout the season on a 7 to 14 day interval. Make no more than two consecutive sprays before alternating to a non Group 11 fungicide Make no more than 3 applications per crop of Xiphosin™ or other fungicides.
Bushberry Subgroup: Aronia berry; Blueberry, Highbush; Blueberry, Lowbush; Buffalo currant; Chilean guava; Cranberry, Highbush; Currant, black; Currant, red; Elderberry; European barberry; Gooseberry; Honeysuckle. Edible; Huckleberry; Jostaberry; Juneberry (Saskatoon berry); Lingonberry; Native currant; Salal; Sea buckthorn		
APPLICATION METHOD: Apply Xiphosin™ by ground or by air (minimum of 15 gal /A)		
BUSHBERRY USE RESTRICTIONS <ol style="list-style-type: none"> 1. Do not apply more than 82 fl. oz./A/year of Xiphosin™ per crop 2. Do not apply more than 0.84 lb. a.i. of a propiconazole containing product/A/year. 3. Do not apply more than 0.75 lb. a.i. azoxystrobin containing product/A/year on bushberries 4. Do not apply within 30 days of harvest (30 day PHI) 		

BERRIES, CANEBERRY SUBGROUP

Blackberry, Bingleberry, Boysenberry, Dewberry, Raspberry, red and black, Wild Raspberry Including all cultivars and/or hybrids of these. See below for additional types of caneberrries*

Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Anthracnose <i>(Spaceloma necator, Elsinoe veneta)</i> Botryosphaeria Canker <i>(B. dothidea)</i> Leaf and Cane Spot <i>(Septoria rubi)</i> Leaf Spot <i>(Septoria spp.)</i> Powdery Mildew <i>(Sphaerotheca macularis)</i> Rosette or Double Blossom of Blackberries <i>(Cercospora rubi)</i> Rust <i>(Phragmidium violaceum)</i>	14 - 21	Xiphosin™ applications must begin prior to disease development and continue throughout the season on a 14-day interval. Make no more than two consecutive sprays before alternating to a non-Group 11 fungicide. Make no more than 3 applications per crop of Xiphosin™ or other Group 11 fungicides.
*Other Caneberries in Subgroup: Loganberry, Lowberry, Marionberry, Olallieberry and Youngberry		
APPLICATION METHOD: Apply Xiphosin™ by ground or by air (minimum of 15 gal/A).		

CANEBERRY USE RESTRICTIONS:

1. Do not apply more than 105 fl. oz./A of Xiphosin™ per crop.
2. Do not apply more than 0.84 lb. a.i. of a propiconazole-containing product/A/year.
3. Do not apply more than 1.5 lb. a.i. of an azoxystrobin-containing product/A/year on caneberries.
4. Do not apply within 30 days of harvest (30-day PHI).

BULB VEGETABLES

Dry Bulb, Garlic, Onions (dry bulb), Shallots (dry bulb) Green, Leeks, Onions (green), Shallots (green) Including all cultivars and/or hybrids of these. See below for complete list of bulb vegetables

Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Cladosporium Leaf Blotch (<i>C. allii</i>) Purple Blotch (<i>Alternaria porri</i>) Rust (<i>Puccinia allii</i>)	14 - 21	Begin applications when conditions favor disease development and continue on a 7- to 10-day interval. Use the higher rate and shorter interval when disease conditions are severe. Make only 1 application before alternating to a non-Group 11 fungicide.
Botrytis Leaf Blight (<i>B. squamosa</i>) Downy Mildew (<i>Peronospora destructor</i>) White Rot (<i>Sclerotium cepivorum</i>)	17.5 - 26	

Complete List of Bulb Vegetables: Chive, fresh leaves; chive, Chinese, fresh leaves; daylily, bulb; elegans hosta; fritillaria, bulb; fritillaria, leaves; garlic, bulb; garlic, great-headed, bulb; garlic, serpent, bulb; kurrat; lady's leek; leek; leek, wild; lily, bulb; onion, Beltsville bunching; onion, bulb; onion, Chinese, bulb; onion, fresh; onion, green; onion, macrostem; onion, pearl; onion, potato, bulb; onion, tree, tops; onion, Welsh, tops; shallot, bulb; shallot, fresh leaves; cultivars, varieties, and/or hybrids of these.

APPLICATION METHOD: Apply Xiphosin™ by ground (15 gal/A minimum) or aerial application (minimum of 5 gal/A).

NOTE: Mixing with products formulated as an EC can result in phytotoxicity

BULB VEGETABLE USE RESTRICTIONS:

1. Do not apply more than 56 fl. oz./A/year of Xiphosin™ per crop.
2. Do not apply more than 0.45 lb. a.i. of propiconazole-containing products/A/year.
3. Do not apply more than 1.5 lb. a.i. of azoxystrobin-containing products/A/year.
4. Do not apply within 14 days of harvest (14-day PHI) on dry bulb onions.

CARROTS

Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Alternaria Leaf Blight (<i>Alternaria dauci</i>) Early Blight (<i>Cercospora carotae</i>) Powdery Mildew (<i>Erysiphe polygoni</i>)	14	Apply Xiphosin™ when conditions favor disease development. Continue applications on a 7- to 10-day interval, using the shorter interval when disease conditions are severe. Make no more than one application before alternating to a non-Group 11 fungicide.

APPLICATION METHOD: Apply Xiphosin™ by ground (15 gal/A minimum) or aerial application (minimum of 5 gal/A).

CARROTS USE RESTRICTIONS:

1. Do not apply more than 56 fl. oz./A of Xiphosin™ per crop.
2. Do not apply more than 0.45 lb. a.i. of propiconazole-containing products/A/year.
3. Do not apply more than 2.0 lb. a.i. of azoxystrobin-containing products/A/year.
4. Do not apply within 14 days of harvest (14-day PHI)

CELERY		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Early Blight (<i>Cercospora apii</i>) Late Blight (<i>Septoria apicola</i>)	14	Apply Xiphosin™ on a 7- to 10-day schedule in alternation with propiconazole containing products or another product with a different mode of action than Group 11 fungicides.
APPLICATION METHOD: Apply Xiphosin™ by ground, air (5 gal/A minimum) or chemigation.		
CELERY USE RESTRICTIONS:		
<ol style="list-style-type: none"> 1. Do not apply more than 56 fl. oz./A. 2. Do not apply more than 0.45 lb. a.i. propiconazole containing products/A/year. 3. Do not apply more than 1.5 lb. a.i. azoxystrobin-containing products/A/year. 4. Do not apply within 14 days of harvest (14-day PHI). 		

CEREALS, WHEAT		
See next section for other cereals		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Early season suppression of: Glume Blotch (<i>Stagonospora nodorum</i>) Leaf Blight (<i>Septoria tritici</i>) Powdery Mildew (<i>Blumeria</i> spp., <i>Erysiphe</i> spp.) Tan Spot (<i>Pyrenophora tritici-repentis</i>)	7 - 14	Apply Xiphosin™ in the spring for suppression of early season diseases. Follow up with a second application (see below) for full season control. Flecking and burning can occur if you mix with fertilizers and herbicides at this timing.
Control of Leaf Diseases: Glume Blotch (<i>Stagonospora nodorum</i>) Helminthosporium Leaf Blight (<i>Drechslera tritici-repentis</i>) Leaf Blight (<i>Septoria tritici</i>) Powdery Mildew (<i>Blumeria</i> spp., <i>Erysiphe</i> spp.) Rust (<i>Puccinia</i> spp.) Spot Blotch (<i>Bipolaris sorokiniana</i>) Tan Spot (<i>Pyrenophora tritici-repentis</i>)	10.5 - 14	Protecting the flag leaf is important for maximizing the potential yield. Highest yields are normally obtained when Xiphosin™ is applied when the flag leaf is 50% to fully emerged. Applications must not be made no closer than a 14-day interval. Xiphosin™ can be applied through full head emergence (Feekes growth stage 10.5). Do not apply after this stage to avoid possible illegal residues.
Foot Rot/Eyespot (<i>Tapesia</i> spp.)	14	Apply full rate of Xiphosin™ plus half the rate specified on other EPA-registered fungicides such as Topsin® M. Apply at tillering but before elongation has occurred.
NOTE: Xiphosin™ is most effective when applied and allowed to dry before a rainfall. For best results, sufficient coverage is very important. Use a higher water volume for aerial application (greater than 2 GPA) if equipment and/or conditions would not provide good coverage.		
APPLICATION METHOD: Apply Xiphosin™ by ground, air, or chemigation.		

(continued)

CEREALS, WHEAT

See next section for other cereals

Target Diseases	Use Rate fl. oz. product/A	Application Instructions
<p>WHEAT USE RESTRICTIONS:</p> <ol style="list-style-type: none"> 1. Do not apply more than 2 applications/A/year. 2. Do not apply after Feekes 10.54. 3. Do not apply more than 28 fl. oz./A/year of Xiphosin™. 4. Do not apply more than 0.22 lb. a.i. propiconazole-containing products/A/year. 5. Do not apply more than 0.40 lb. a.i. azoxystrobin-containing products/A/year. 6. Under certain environmental conditions, tank mixes of Xiphosin™ plus herbicides and/or fertilizers can cause crop injury. 7. Do not apply within 7 days of harvest (7-day PHI) for forage and hay. 		

CEREALS, BARLEY, OATS, RYE, TRITICALE

Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Early season suppression of: Glume Blotch <i>(Stagonospora nodorum)</i> Leaf Blight <i>(Septoria tritici)</i> Powdery Mildew <i>(Blumeria spp., Erysiphe spp.)</i> Tan Spot <i>(Pyrenophora tritici-repentis)</i>	7 - 14	Apply Xiphosin™ in the spring for suppression of early season diseases. Follow up with a second application (see below) for full season control. Flecking and burning can occur if you mix with fertilizers and herbicides at this time.
Control of Leaf Diseases: Barley Scald <i>(Rhynchosporium secalis)</i> Barley Stripe <i>(Pyrenophora graminea)</i> Glume Blotch <i>(Stagonospora nodorum)</i> Helminthosporium Leaf Blight <i>(Drechslera tritici-repentis)</i> Kernel Blight <i>(Alternaria spp.)</i> Leaf Blight <i>(Septoria tritici)</i> Net Blotch <i>(Pyrenophora teres)</i> Powdery Mildew <i>(Blumeria spp., Erysiphe spp.)</i> Rust <i>(Puccinia spp.)</i> Spot Blotch <i>(Bipolaris sorokiniana)</i> Tan Spot <i>(Pyrenophora tritici-repentis)</i>	10.5 - 14	Protecting the flag leaf is important for maximizing the potential yield. Highest yields are normally obtained when Xiphosin™ is applied when the flag leaf is 50% to fully emerged. Applications must not be made no closer together than a 14-day interval.
Foot Rot/Eyespot <i>(Tapesia spp.)</i>	14	Apply full rate of Xiphosin™ plus half the rate specified on other EPA-registered fungicides such as Topsin®. Apply at tillering but before elongation has occurred.
<p>NOTE: Xiphosin™ is most effective when applied and allowed to dry before a rainfall. For best results, sufficient coverage is very important. Use a higher water volume for aerial application (greater than 2 GPA) if equipment and/or conditions would not provide good coverage. Add an adjuvant at specified rates to improve canopy coverage and penetration while reducing evaporation and drift.</p>		
<p>APPLICATION METHOD: Apply Xiphosin™ by ground, air, or chemigation.</p>		

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CEREALS, BARLEY, OATS, RYE, TRITICALE		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions
BARLEY, OATS, RYE, TRITICALE USE RESTRICTIONS:		
<ol style="list-style-type: none"> 1. Do not apply more than 2 applications/A/year. 2. Do not apply after Feekes 10.54. 3. Do not apply within 7 days of harvest (7-day PHI) for forage and hay. 4. Do not apply more than 28 fl. oz./A/year of Xiphosin™. 5. Do not apply more than 0.22 lb. a.i. propiconazole-containing products/A/year. 6. Do not apply more than 0.40 lb. a.i. azoxystrobin-containing products/A/year. 7. Under certain environmental conditions, tank mixes of Xiphosin™ plus herbicides and/or fertilizers can cause crop injury. 		

CORN, FIELD and POP (Includes Seed Production)		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Anthraxnose Leaf Blight (<i>Colletotrichum graminicola</i>)	10.5	Early application (V4-V8): Apply an early application (V4-V8) of Xiphosin™ for early season disease control and plant performance benefits. If mixing with herbicides other than solo glyphosate products, consult your local AgBiome Innovations™, Inc. representative.
Eye Spot (<i>Aureobasidium zeae</i>)	10.5 - 14	<p>Later season applications: For gray leaf spot, rusts, anthracnose, and eye spot, apply 10.5-14 oz./A Xiphosin™ when disease first appears. If conditions favorable for disease persist, continue to apply on a 14-day schedule.</p> <p>For leaf blights apply 10.5-14 oz. Xiphosin™ when disease first appears. Continue on a 7- to 14-day schedule. Use the low rate when disease pressure is low.</p> <p>Under heavy disease pressure or if conditions are favorable for disease, apply the high rate.</p> <p>Do not use adjuvants or other additives after the V8 growth stage and prior to the VT growth stage, as use during these development times can impose stress on the plant that could inhibit proper kernel development. VT is defined as when the last branch of the tassel is completely visible, but silks have not yet emerged from the ear shoot.</p> <p>Apply no more than 2 applications of Xiphosin™ or any other Group 11 fungicide per year. Use of an adjuvant such as COC can provide additional disease control.</p>
Gray Leaf Spot (<i>Cercospora zeae-maydis</i>)		
Northern Corn Leaf Blight (<i>Setosphaeria turcica</i>)		
Northern Corn Leaf Spot (<i>Cochliobolus carbonum</i>)		
Physoderma Brown Spot (<i>Physoderma maydis</i>)		
Rusts (<i>Puccinia</i> spp.)		
Southern Corn Leaf Blight (<i>Cochliobolus heterostrophus</i>) also known as Helminthosporium		
Leaf Blights (<i>H. maydis</i> , <i>H. turcicum</i> , <i>H. carbonum</i>)		
Suppression of: Diplodia Ear Rot (<i>D. maydis</i>)		

NOTE: For best results, sufficient coverage is very important. For ULV aerial applications DO NOT use less than 1.0 GPA. Use a higher water volume for aerial application if equipment and/or conditions will not provide good coverage.

APPLICATION METHOD: Apply Xiphosin™ by ground, air (ULV), or chemigation.

FIELD and POP CORN USE RESTRICTIONS:

1. Do not apply more than 56 fl. oz./A/year of Xiphosin™.
2. Do not apply more than 28 fl. oz. (0.224 lb. a.i. propiconazole) for field corn harvested for forage.
3. Do not apply more than 0.45 lb. a.i. propiconazole-containing products/A/year.
4. Do not apply more than 2.0 lb. a.i. azoxystrobin-containing products/A/year.
5. Do not apply within 30 days of harvest (30-day PHI) for forage, grain, or stover.

CORN, SWEET SWEET CORN (Includes Seed Production)		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions

<p>Anthrachnose Leaf Blight (<i>Colletotrichum graminicola</i>) Eye Spot (<i>Aureobasidium zeae</i>) Gray Leaf Spot (<i>Cercospora zeae-maydis</i>) Northern Corn Leaf Blight (<i>Setosphaeria turcica</i>) Northern Corn Leaf Spot (<i>Cochliobolus carbonum</i>) Rusts (<i>Puccinia</i> spp.) Southern Corn Leaf Blight (<i>Cochliobolus heterostrophus</i>)</p>	<p>10.5 - 14</p>	<p>Apply Xiphosin™ when disease first appears. If conditions favorable for disease persist, continue to apply on a 14-day schedule.</p> <p>For leaf blights apply Xiphosin™ when disease first appears. Continue on a 7- to 14-day schedule. Use the low rate when disease pressure is low. Under heavy disease pressure or if conditions are favorable for disease, apply the high rate.</p> <p>Alternate applications of Xiphosin™ with propiconazole-containing products or another product with a different mode of action than Group 11 fungicides.</p>
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NOTE: For best results, sufficient coverage is very important. Use of a crop oil concentrate is recommended for aerial applications to reduce evaporation and enhance canopy penetration and coverage. Consult your aerial applicator for specified concentration of crop oil concentrate. DO NOT use less than 1.0 GPA for the ULV applications. Use higher water volumes for aerial applications if equipment and/or conditions will not provide good coverage.

APPLICATION METHOD: Apply Xiphosin™ by ground, air (ULV), or chemigation.

SWEET CORN USE RESTRICTIONS:

1. Do not apply more than 56 fl. oz./A/year of Xiphosin™.
2. Do not apply more than 0.45 lb. a.i. propiconazole-containing products/A/year.
3. Do not apply more than 2.0 lb. a.i. azoxystrobin-containing products/A/year.
4. Do not apply to sweet corn within 14 days of harvest (14-day PHI) for ears or forage.

CRANBERRIES		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions
<p>Cottonball (<i>Monilinia oxycocci</i>) Fruit Rots (<i>Phylospora vaccinii</i>) (<i>Glomerella cingulata</i>) (<i>Coleophoma empetri</i>) Lophodermium Twig Blight (<i>Lophodermium</i> spp.)</p>	<p>14 - 21</p>	<p>Make the first application at leaf bud break and repeat in 14 days. Make additional applications at early bloom. Make no more than 2 consecutive sprays before alternating to a non-Group 11 fungicide.</p> <p>For resistance management, make no more than 3 sprays per year using any Group 11 (Qol containing) fungicide.</p> <p>Under severe pressure, use the higher rate for control.</p>

APPLICATION METHOD: Apply Xiphosin™ by ground (minimum of 10 gal./A) or aerial application (minimum of 20 gal./A).

CRANBERRY USE RESTRICTIONS:

1. Do not apply more than 84 fl. oz./A of Xiphosin™ per crop.
2. Do not apply more than 0.67 lb. a.i. of propiconazole-containing products/A/year.
3. Do not apply more than 1.5 lb. a.i. of azoxystrobin-containing products/A/year.
4. Do not use cranberry fields used for aquaculture of fish and crustaceans.
5. 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.
6. Do not apply to flooded crop.
7. Do not allow release of irrigation or flood water to non-target aquatic habitat for at least 14 days after the last application.
8. Do not apply within 45 days of harvest (45-day PHI).
9. Use is limited to Oregon, Washington, and Wisconsin only.

FILBERTS		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions
<p>Eastern Filbert Blight (<i>Anisogramma anomala</i>)</p>	<p>14 - 21</p>	<p>Begin applications when green leaf tissue becomes visible and continue on a 2- to 3-week interval. Under severe disease conditions, use the higher rate and shorter interval. Apply no more than 2 sequential applications before alternating to a non-Group 11 fungicide.</p> <p>PRECAUTION: On certain varieties, Xiphosin™ applications can cause smaller and/or greener leaves. Yields of filberts displaying these characteristics have not been reduced due to Xiphosin™ treatments.</p>

APPLICATION METHOD: Apply Xiphosin™ by ground or aerial application (minimum of 15 gal./A).

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FILBERTS USE RESTRICTIONS:

1. Do not apply more than 112 fl. oz./A of Xiphosin™ per crop.
2. Do not apply more than 0.9 lb. a.i. of propiconazole-containing products/A/year.
3. Do not apply more than 1.2 lb. a.i. of azoxystrobin-containing products/A/year.
4. Do not graze livestock in treated areas or cut treated cover crop for feed.
5. Do not apply within 60 days of harvest (60-day PHI).

GRASSES (Grown For Seed)

Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Ergot Stem Diseases Powdery Mildew (<i>Erysiphe graminis</i>) Rusts (<i>Puccinia</i> spp.) Selenophoma Stem Eyespot (<i>Selenophoma</i> spp.)	14 - 26	Apply Xiphosin™ when powdery mildew infections, <i>Selenophoma</i> infections, and/or rust pustules are noticeable and increasing in number in late spring or early summer. To maximize control of severe rust pressure, apply 26 fl. oz./A (except bluegrass apply 14 fl. oz./A) and make applications at 14-day intervals until the seed is mature. For bluegrass, it is important to begin application early in the growing season. Make no more than 2 sequential applications of a Group 11 fungicide before alternating to another product with a different mode of action than Group 11 fungicides.

NOTE: Xiphosin™ is most effective when applied and allowed to dry before a rainfall. For best results, sufficient coverage is very important. Apply Xiphosin™ in a minimum of 20 gal. of water per acre for ground or in a minimum of 10 gal. of water per acre for aerial.

APPLICATION METHOD: Apply Xiphosin™ by ground, air or chemigation.

GRASSES (Grown For Seed) USE RESTRICTIONS:

1. Do not feed hay cut within 20 days of the last application.
2. Do not graze treated areas within 140 days of the last application.
3. Do not apply more than 86.0 fl. oz./A/year of Xiphosin™.
4. Do not apply more than 0.90 lb. a.i. propiconazole-containing products/A/year.
5. Do not apply more than 0.8 lb. a.i. azoxystrobin-containing products/A/year.
6. Do not apply within 20 days of harvest (20-day PHI) of seed.
7. Use is limited to Idaho, Minnesota, Nebraska, Oregon, and Washington only.

MINT, Peppermint, Spearmint

Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Powdery Mildew (<i>Erysiphe</i> spp.) Rust (<i>Puccinia menthae</i>)	10.5 - 14	Begin applications when the plants are 2-4 inches high or when conditions become favorable for disease development. Make a second application 14 days after the first application.

APPLICATION METHOD: Apply Xiphosin™ by ground (minimum of 20/gal/A) or chemigation.

MINT USE RESTRICTIONS:

1. Do not apply more than 28 fl. oz./A of Xiphosin™ per crop.
2. Do not apply more than 0.22 lb. a.i. of propiconazole-containing products/A/year.
3. Do not apply more than 0.75 lb. a.i. of azoxystrobin-containing products/A/year.
4. Do not apply within 7 days of harvest (7-day PHI).

PEANUTS*

***NOT FOR USE IN CALIFORNIA**

Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Early Leaf Spot (<i>Cercospora arachidicola</i>) Late Leaf Spot (<i>Cercosporium personatum</i>) Rust (<i>Puccinia arachidis</i>) Web Blotch (<i>Phoma arachidicola</i>)	10.5 - 14	Apply Xiphosin™ beginning 35 to 40 days after planting or at the first appearance of disease. Continue applications on a 14-day schedule. Under heavy disease pressure use higher listed application rates. Use Xiphosin™ in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development. Make no more than two sequential applications of a Group 11 fungicide before alternating to another product with a different mode of action than Group 11 fungicides.

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Soil-Borne Diseases - mid-late season Rhizoctonia Peg and Pod Rot (<i>R. solani</i>) Stem Rot/White Mold/ Southern Blight (<i>Sclerotium rolfsii</i>) Suppression only: Cylindrocladium Black Rot (<i>C. croatalariae</i>) Pythium Pod Rot (<i>P. myriotylum</i>)	21 - 28	Apply Xiphosin™ at approximately 60 and 90 days after planting as a foliar application. Apply this application regime earlier in the season if environmental conditions favor disease development. This application will provide protection against soil-borne diseases and will also provide control of the foliar diseases listed for a 10- to 14-day period after each spray. Under heavy pressure and/or heavy rainfall or irrigation, use 28 fl. oz. of Xiphosin™ per acre. Under lighter pressure and dry conditions (non-irrigated, low rainfall), use 21-28 fl. oz. of Xiphosin™ per acre.
Soil-Borne Diseases - mid-late season Rhizoctonia Peg and Pod Rot (<i>R. solani</i>) Stem Rot/White Mold/ Southern Blight (<i>Sclerotium rolfsii</i>) Suppression only: Cylindrocladium Black Rot (<i>C. croatalariae</i>) Pythium Pod Rot (<i>P. myriotylum</i>)	14 - 28 plus Abound® in tank mix	Tank-mix option: Apply 14 fl. oz./A of Xiphosin™ in a tank mix with azoxystrobin-containing products or other fungicides for control of soil-borne diseases. A minimum of 0.15 lb. a.i./A azoxystrobin must be in the tank mix (see Xiphosin™ rate conversion table below). Do not exceed 0.4 lb. of azoxystrobin/A/application. Apply Xiphosin™ plus Abound at approximately 60 and 90 days after planting as a foliar application. Apply this application regime earlier in the season if environmental conditions favor disease development. This application will provide protection against soil-borne diseases and will also provide control of the foliar diseases listed for a 10- to 14-day period after each spray. Under heavy pressure and/or heavy rainfall or irrigation, there must be 0.3-0.4 lb. a.i. of azoxystrobin in the tank. Under lighter pressure and dry conditions (non-irrigated, low rainfall), 0.2-0.4 lb. a.i. of azoxystrobin can be used.
APPLICATION METHOD: When applying Xiphosin™ via irrigation or as a directed ground application, employ additional methods for leaf spot control. Apply Xiphosin™ by ground, air or chemigation		
PEANUT USE RESTRICTIONS: <ol style="list-style-type: none">1. Do not apply more than 56 fl. oz./A/year.2. Do not apply more than 0.45 lb. a.i. propiconazole-containing products/A/year.3. Do not apply more than 0.80 lb. a.i. azoxystrobin-containing products/A/year.4. Do not apply within 14 days of harvest (14-day PHI) when using a maximum rate of 14 fl. oz./A.5. Do not apply within 21 days of harvest (21-day PHI) when using rates above 14 fl. oz./A and do not feed hay from treated fields to livestock if using rates higher than 14 fl. oz./A.		

PECANS		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Anthracnose (<i>Glome rella cingulata</i>) Downy Spot (<i>Mycosphaerella caryigena</i>) Liver Spot (<i>Gnomonia caryae pv pecanae</i>) Pecan Scab (<i>Cladosporium caryigenum</i>) Powdery Mildew (<i>Microsphaera penicillata</i>) Vein Spot (<i>Gnomonia nerviseda</i>) Zonate Leaf Spot (<i>Cristulariella moricola</i>)	14 - 21	Pecan scab: Apply 14-21 fl. oz./A Xiphosin™ on a 14-day schedule during bud break and pre-pollination sprays. Apply 20-21 fl. oz./A during nut formation and cover sprays. Use higher rates when disease pressure is heavier. Do not apply after shuck split. Other foliar diseases: Apply Xiphosin™ for control of mid to late season foliar diseases at 14-20.5 fl. oz./A with other pecan products labeled for these diseases. Observe all directions, precautions, and limitations for the other products. Make no more than two sequential applications of a Group 11 fungicide before alternating to another product with a different mode of action than Group 11 fungicides. Use of an adjuvant such as COC can provide additional disease control.
APPLICATION METHOD: Ground applications must be applied in sufficient water to provide for full coverage. Apply Xiphosin™ by ground or air (minimum of 20 gal./A).		

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PECANS		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions
PECAN USE RESTRICTIONS:		
<ol style="list-style-type: none"> 1. Do not apply more than 115 fl. oz./A of Xiphosin™ per year. 2. Do not graze livestock in treated areas or cut treated cover crops for feed. 3. Do not apply more than 0.9 lb. a.i. propiconazole-containing products/A/year. 4. Do not apply more than 1.2 lb. a.i. azoxystrobin-containing products/A/year. 5. Do not apply after shuck split or within 45 days of harvest (45-day PHI), whichever is first. 		
PISTACHIOS		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Alternaria Late Blight (<i>A. alternata</i>) Botryosphaeria Panicle and Shoot Blight (<i>B. dothidea</i>) Septoria Leaf Spot (<i>S. pistaciarum</i>)	17.5 - 21	Begin applications when green leaf tissue becomes visible and continue on a 14- to 21-day interval. Under severe disease conditions, use the higher rate and the shorter, interval. Make no more than 2 consecutive applications of Xiphosin™ before alternating to another non-Group 11 fungicide.
APPLICATION METHOD: Apply Xiphosin™ by ground or aerial application (minimum of 15 gal./A).		
PISTACHIO USE RESTRICTIONS:		
<ol style="list-style-type: none"> 1. Do not apply more than 112 fl. oz./A of Xiphosin™ per crop. 2. Do not apply more than 0.9 lb. a.i. of propiconazole-containing products/A/year. 3. Do not apply more than 1.5 lb. a.i. of azoxystrobin-containing products/A/year. 4. Do not graze livestock in treated areas or cut treated cover crop for feed. 5. Do not apply within 60 days of harvest (60-day PHI). 		
RICE, Including Wild Rice		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Aggregate Sheath Spot (<i>Rhizoctonia oryzae-sativa</i>) Black Sheath Rot (<i>Gaeumannomyces graminis</i>) Brown Leaf Spot (<i>Helminthosporium oryzae</i>) Kernel Smut (<i>Tilletia barclayana</i>) Leaf Blast (<i>Pyricularia grisea</i>) Leaf Smut (<i>Entyloma oryzae</i>) Narrow Brown Leaf Spot (<i>Cercospora oryzae</i>)	14 - 27	<p>Timing of Xiphosin™ application will depend on disease severity, disease complex and rice variety/growth stage. Consult local extension experts for local economic thresholds established for various rice varieties and diseases.</p> <p>Leaf blast: Xiphosin™ must be applied for preventive control. Apply 21-27 fl. oz./A. Panicle blast: Apply Xiphosin™ at 10% head emergence with an additional application of an azoxystrobin-containing product at 90% emergence. Refer to the azoxystrobin-containing product label for rates and timing.</p> <p>All other leaf/stem diseases: Apply 15.75-27 fl. oz./A at initial sign of disease. Apply higher rates when disease pressure is heavy and/or when environmental conditions are highly favorable for disease development. A second application must be made 14 days later.</p> <p>Tank mix option: Apply 15.75-20.5 fl. oz./A of Xiphosin™ in a tank mix with azoxystrobin-containing products or other fungicides for control of rice diseases. A minimum of 0.15 lb. a.i./A azoxystrobin must be in the tank mix (see Xiphosin™ rate conversion table below). Do not exceed 0.3 lb. of azoxystrobin/A/ per application to rice or 0.25 lb. of azoxystrobin/A/application to wild rice.</p> <p>The lower rate of 14 fl. oz./A must only be used for hybrids or varieties with at least moderate resistance to sheath blight. Apply from late boot to boot split for control of diseases (except leaf blast and false smut) of rice (including wild rice). When applying prior to late boot or after boot split growth stages, use the higher rates listed above.</p> <p>Make no more than 2 applications of a Group 11 (QoI) fungicide per year.</p>

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RICE, Including Wild Rice		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Panicle Blast (<i>P. grisea</i>) Sheath Blight (<i>Rhizoctonia solani</i>) Sheath Spot (<i>Rhizoctonia oryzae</i>) Stem Rot (<i>Sclerotium oryzae</i>) For disease suppression of: False Smut (<i>Ustilaginoidea virens</i>)	14 - 27	
NOTE: For aerial application, use volumes of 5-10 GPA. Add an adjuvant at specified rates to improve canopy coverage and penetration while reducing evaporation and drift.		
RICE USE RESTRICTIONS: <ol style="list-style-type: none">1. Do not apply to stubble or ratoon crop rice.2. Do not use in rice fields where commercial farming of crayfish will be practiced.3. Do not drain water from treated rice fields into ponds used for commercial fish farming.4. Do not use water drained from treated fields to irrigate other crops.5. Do not apply more than 42 fl. oz./A/year of Xiphosin™.6. Do not apply more than 0.34 lb. a.i. propiconazole-containing products/A/year.7. Do not apply more than 0.70 lb. a.i. azoxystrobin-containing products/A/year.8. Do not release floodwater within 14 days of an application.9. Do not apply within 35 days of harvest (35-day PHI).		

SORGHUM		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Anthraxnose (<i>Colletotrichum graminicola</i>) Ergot (<i>Claviceps sorghi</i>) Gray Leaf Spot (<i>Cercospora sorghi</i>) Ladder Leaf Spot (<i>Cercospora fusimaculans</i>) Leaf Blight (<i>Exserohilum turcicum</i>) Zonate Leaf Spot (<i>Gloeocercospora sorghi</i>)	10.5 - 14	For ergot control, make the first application at or just prior to flowering. Repeat on a 5- to 7-day interval. For other diseases, apply at first sign of disease. Apply on a 14-day interval.
APPLICATION METHOD: Apply Xiphosin™ by ground or aerial application.		

SORGHUM USE RESTRICTIONS: <ol style="list-style-type: none">1. Do not apply more than 56 fl. oz./A of Xiphosin™ per crop.2. Do not apply more than 0.45 lb. a.i. of propiconazole-containing products/A/year.3. Do not apply more than 0.75 lb./A/year of azoxystrobin-containing products to sorghum grown for grain and/or stover.4. Do not apply more than 0.5 lb./A/year of azoxystrobin-containing products to sorghum grown for forage.5. Do not graze livestock or cut for green chop or silage within 30 days of application.6. Do not apply more than 28 oz. (0.22 lb. a.i. propiconazole) on sorghum harvested for forage.7. Do not apply within 30 days of harvest (30-day PHI) for forage.8. Do not apply within 21 days of harvest (21-day PHI) for grain or stover.		
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SOYBEANS		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Aerial Web 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>C. kikuchii</i>) Frogeye Leaf Spot (<i>Cercospora sojina</i>) Pod and Stem Blight (<i>Diaporthe</i> spp.) Soybean Rust (<i>Phakopsora pachythizi</i>)	10.5 - 21	Foliar diseases (except rust): Apply 14-21 fl. oz./A at growth stage R3 (early pod set) when pods are inch long) and 14-21 days later at growth stage R5 (pod fill). Xiphosin™ may be applied earlier if conditions are conducive for disease. Soybean Rust: Apply 14-21 fl. oz./A at first indication that disease is in the area. For best control, preventive applications work best. Repeat on a 14- to 21-day interval. Use higher rate and shorter interval when diseases are present in the field and incidence is less than 2% (2 plants in 100 are infected). If incidence is greater than this or if disease is in mid-canopy, control will not be acceptable. Scouting for the disease and/or being aware of the proximity of the disease via monitoring systems will aid in the proper timing to maximize the effectiveness of the fungicide applications. On certain varieties, Xiphosin™ applications can cause crinkled, smaller and/or greener leaves. Yields of beans displaying these characteristics have not been reduced due to Xiphosin™ treatments.
NOTE: Xiphosin™ is most effective when applied and allowed to dry before a rainfall. For best results, sufficient coverage is very important. DO NOT use less than 2.0 GPA. Use a higher water volume for aerial application if equipment and/or conditions will not provide for good coverage.		
APPLICATION METHOD: Apply Xiphosin™ by ground, air or chemigation.		
SOYBEAN USE RESTRICTIONS:		
<ol style="list-style-type: none"> 1. Do not apply more than 42 fl. oz./A of Xiphosin™ per crop. 2. Do not apply more than 0.34 lb. a.i. of propiconazole-containing products/A/year. 3. Do not apply more than 1.5 lb. a.i. of azoxystrobin-containing products/A/year. 4. Apply up to Stage R6. 		

STONE FRUITS		
Apricot, Cherry, sweet Cherry, tart, Nectarine, Peach, Plum, Plumcot, Prune Including all cultivars and hybrids of these		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Alternaria Spot and Fruit Rot (<i>A. alternata</i>) Anthracnose (<i>Colletotrichum prunicola</i>) Brown Rot Blossom Blight (<i>Monilinia</i> spp.) Brown Rot on Fruit (<i>Monilinia</i> spp.) Cherry Leaf Spot (<i>Blumeriella jaapii</i>) Powdery Mildew (<i>Podosphaera clandestina</i> , <i>Sphaerotheca pannosa</i>) Rust (<i>Tranzschelia discolor</i>) Scab (<i>Cladosporium carpophilum</i>) Shothole (<i>Wilsonomyces carpophilus</i>)	14	For brown rot blossom blight, apply Xiphosin™ at early bloom stage. If disease pressure is low, make a second application of 14 fl. oz./A as needed through petal fall. Under conditions of high disease pressure and/or very susceptible varieties, make applications as needed at 50-75% bloom and petal fall. Apply no more than 2 sequential applications before switching to a non-Group 11 fungicide. For brown rot on fruit, apply as needed, a maximum of 2 sprays of Xiphosin™, during the preharvest period up to the day of harvest. Make the two applications no closer than 10 days apart. For powdery mildew, rust, and cherry leaf spot, follow the blossom blight schedule. Make up to 2 additional applications on a 10-to 14-day interval from the end of petal fall to harvest. For scab, begin applications at petal fall and continue on a 7- to 14-day interval. For other diseases, begin applications at onset of disease and continue on a 10- to 14-day interval. Make no more than 2 sequential applications of a Group 11 fungicide prior to alternating with another product with a different mode of action than Group 11 fungicides.
NOTE: Stone fruit diseases are more effectively controlled by ground application, using sufficient water volume to provide thorough and uniform coverage. Aerial application (minimum of 15 gal./A) must be used if necessary but disease control can be reduced.		
PRECAUTION: Applications of Xiphosin™ during bloom to Stanley plums have occasionally caused fruit to be less oval in shape and smaller in size at harvest. To avoid this, do not apply Xiphosin™ to Stanley plums earlier than 21 days prior to harvest.		

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STONE FRUITS		
Apricot, Cherry, sweet Cherry, tart, Nectarine, Peach, Plum, Plumcot, Prune Including all cultivars and hybrids of these		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions
STONE FRUIT USE RESTRICTIONS:		
<ol style="list-style-type: none"> 1. Do not apply more than 70 fl. oz./A/year of Xiphosin™. 2. Do not apply more than 0.56 lb. a.i. propiconazole-containing products/A/year. 3. Do not apply more than 1.5 lb. a.i. azoxystrobin-containing products/A/year. 4. Xiphosin™ can be applied the day of harvest (0-day PHI). 		

STRAWBERRIES AND LOW GROWING BERRY		
Subgroup (except cranberry) Bearberry, Bilberry, Cloudberry, Muntries Partridgeberry		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Anthracnose <i>(Colletotrichum spp)</i> Leaf Rust <i>(Phragmidium potentillae)</i> Leaf Spot <i>(Cercospora fragariae)</i> Powdery Mildew <i>(Sphaerotheca maculans)</i>	14	Begin applications prior to disease development. Repeat on a 10 to 14 day interval. Do not make more than two consecutive applications before switching to a non Group 11 fungicide. Make no more than 4 applications per year of Xiphosin™ or other QoI containing product.
APPLICATION METHOD: Apply Xiphosin™ by ground (20 gal/A minimum) or aerial application (15 gal /A minimum)		
STRAWBERRY and LOW GROWING BERRY USE RESTRICTIONS:		
<ol style="list-style-type: none"> 1. Do not apply more than 56 fl. oz. /A of Xiphosin™ per crop. 2. Do not apply more than 0.45 lb a.i. of propiconazole containing products/A/year. 3. Do not apply more than 1.0 lb. a.i. of azoxystrobin containing products/A/year. 4. Xiphosin™ can be applied the day of harvest (0 day PHI). 		

SUGAR BEETS*		
*NOT FOR USE IN CALIFORNIA		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Cercospora Leaf Spot <i>(C. beticola)</i> Powdery Mildew <i>(Erysiphe polygoni)</i> Rhizoctonia Crown Rot <i>(R. solani)</i>	14	Begin applications preventively or on a forecast system. For powdery mildew, apply at first sign of disease. Apply Xiphosin™ on a 10-to 21-day schedule. Make only one Xiphosin™ spray then alternate to a non-triazole fungicide (non-Group 3) that is registered on sugar beets for these diseases. If disease pressure is high, use the highest rate and shortest interval. For Rhizoctonia crown rot, apply 14 oz. in a 7-inch band over the row at the 4- to 8-leaf stage.
NOTE: For best results, sufficient water volume must be used to provide thorough coverage. A minimum of 15 gal./A for ground applications is required. For aerial applications a minimum of 5 gal./A of water is required. For chemigation, apply in 0.10-0.25 inches/A of water. Chemigation with excessive water can lead to a decrease in efficacy.		
APPLICATION METHOD: Apply Xiphosin™ by ground, chemigation, or aerial application.		
SUGAR BEET USE RESTRICTIONS:		
<ol style="list-style-type: none"> 1. Do not apply more than 42 fl. oz./A/year of Xiphosin™. 2. Do not apply more than 0.34 lb. a.i. of propiconazole-containing products per crop per year. 3. Do not apply more than 2.0 lb. a.i. of azoxystrobin-containing products per crop per year. 4. Do not apply within 21 days of harvest (21-day PHI). 		

SUGARCANE		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions

Brown Rust (<i>Puccinia melanocephala</i>) Orange Rust (<i>Puccinia kuehnii</i>)	16 - 22	Begin applications prior to rust development and continue throughout the season every 14-28 days following resistance management guidelines. Scout fields and begin applications at the earliest sign of rust.
APPLICATION METHOD: Apply by ground, air or chemigation.		
SUGARCANE USE RESTRICTIONS:		
<ol style="list-style-type: none"> 1. Do not apply more than 88 fl. oz./A/year of Xiphosin™ 2. Do not apply within 30 days of harvest (30-day PHI) 3. Do not apply more than 0.80 lb. a.i. of azoxystrobin containing products per year. 		

TREE NUTS See list below for tree nuts		
Target Diseases	Use Rate fl. oz. product/A	Application Instructions
Foliar Diseases	14 - 21	Apply Xiphosin™ at first sign of disease. Repeat on a 7- to 14-day interval. Do not make more than two consecutive applications before switching to a non-Group 11 fungicide. Make no more than 4 applications of a Xiphosin™ or other QoI containing product per year.
Additional tree nuts: Almond (see specific directions), Beechnut, Brazil Nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (see specific directions), Hickory, Macadamia, Pecan (see specific directions), Pistachios (see specific directions), Walnut		
NOTE: For best control of tree nut diseases, use ground applications.		
APPLICATION METHOD: Apply Xiphosin™ by ground or aerial application (15 gal./A minimum).		
TREE NUT USE RESTRICTIONS:		
<ol style="list-style-type: none"> 1. Do not apply more than 112 fl. oz./A of Xiphosin™ per crop. 2. Do not apply more than 0.9 lb. a.i. of propiconazole-containing products/A/year. 3. Do not apply more than 1.2 lb. a.i. of azoxystrobin-containing products/A/year. 4. Do not graze livestock in treated areas or cut treated cover crop for feed. 5. Do not apply within 60 days of harvest (60-day PHI) except for pecan (see specific use directions). 		

Xiphosin™ Rate Conversion Table

Fl. oz. product/A	Lb. a.i. azoxystrobin	Lb. a.i. propiconazole
7	0.056	0.06
10.5	0.10	0.08
14.0	0.13	0.11
15.75	0.15	0.125
17.5	0.16	0.14
21	0.19	0.17
26	0.24	0.21
27	0.25	0.22
28	0.26	0.22

STORAGE AND DISPOSAL

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

Storage

Store in original container only. Store in a cool, dry and well-ventilated place. Protect from excessive heat. Keep container closed when not in use. Do not store near food or feed.

Pesticide Disposal

Pesticide wastes may be toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal Law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

Container Handling [equal to or less than 5 gallons]

Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

Container Handling [greater than 5 gallons]

Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty 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.

For Bulk and Minibulk Containers: Container Handling [greater than 5 gallons]

Refillable container. Refill this container with pesticide only. Do not reuse the 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 person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER.

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