

AZOXYSTROBIN	GROUP	11	FUNGICIDE
EXTRACT OF <i>REYNOUTRIA SACHALINENSIS</i>	GROUP	P5	FUNGICIDE

AZTERKNOT™



Fungicide

Active Ingredient:

	By Wt
Azoxystrobin*	18.4 %
Extract of <i>Reynoutria sachalinensis</i>	10.2 %
Other Ingredients:	71.4 %
TOTAL	100.0 %

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

Contains 1.74 lb of azoxystrobin & 1.0 lb of Extract of *Reynoutria sachalinensis* (RSE) per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION

This label must be in the possession of the user at the time of application.

See inside booklet for additional precautionary information and directions for use.

EPA Reg. No. 89118-14

Net Contents: 2½ Gallons

Manufactured by:
Vive Crop Protection Inc.
500 Westover Dr. #10198
Sanford, NC 27330
1-888-760-0187



FIRST AID

If swallowed:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- **DO NOT** induce vomiting unless told to by a poison control center or doctor.
- **DO NOT** give anything by mouth to an unconscious person.

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 by mouth-to-mouth if possible.
- Call a poison control center or doctor for treatment advice.

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.

EMERGENCY INFORMATION

Have the product container or label with you when calling a poison control center or doctor or going for treatment. In the event of a medical or chemical emergency contact Chemtel Inc. in North America at 1-800-255-3924 or worldwide international at +1-813-248-0585.



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Caution. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Avoid breathing vapor or spray mist.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants;
- Shoes plus socks;
- Chemical-resistant gloves made of: barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, neoprene rubber \geq 14 mils, polyvinylchloride (PVC) \geq 14 mils or viton \geq 14 mils;
- Protective eyewear.

In addition, mixers/loaders/applicators using mechanically pressured handwands except when applying to Christmas tree farms, nursery ornamentals, landscaping, must wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R or P filter; OR a NIOSH-approved powered air purifying respirator with HE filters.

Respirator fit testing, medical qualification, and training using a program that conforms to OSHA's requirements (see 29 CFR Part 1910.134), employers must verify that any handler who uses a respirator is:

- Fit-tested and fit-checked,
- Trained, and
- Examined by a qualified medical practitioner to ensure physical ability to safely wear the style of respirator to be worn. A qualified medical practitioner is a physician or other licensed health care professional who will evaluate the ability of a worker to wear a respirator. The initial evaluation consists of a questionnaire that asks about medical conditions (such as a heart condition) that would be problematic for respirator use. If concerns are identified, then additional evaluations, such as a physical exam, might be necessary. The initial evaluation must be done before respirator use begins. Handlers must be reexamined by a qualified medical practitioner if their health status or respirator style or use conditions change.

Upon request by local/state/federal/tribal enforcement personnel, employers must provide documentation demonstrating how they have complied with these requirements.

User Safety Requirements

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.

Applications with Aerial Equipment: Human flagging is prohibited.

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:

- 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.

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 water adjacent to treated areas. **DO NOT** contaminate water when disposing of equipment wash water or rinsate.

Ground Water Advisory

Azoxystrobin and a degradate of azoxystrobin are known to leach through soil to groundwater under certain conditions as a result of label use. This chemical may leach into groundwater 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 rainwater. 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 Vive Crop Protection 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 in contact with any oxidizing agent. 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 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;
- Shoes plus socks;
- Chemical-resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber;
- Protective eyewear.

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plans on farms, forests, nurseries, or greenhouses. The area being treated must be vacated by unprotected persons.

DO NOT treat areas while unprotected humans or domestic animals are present in the treatment areas. Because certain states may require more restrictive re-entry intervals, consult your State Department of Agriculture for further information.

DO NOT allow entry into treatment area until area that was treated is this product is dry.

Product Restrictions

DO NOT use in greenhouses for commercial transplant production except when greenhouse directions for use are provided for a specific crop.

In all uses, avoid spray overlap as this may result in crop injury.

Aerial and/or chemigation applications to sod is prohibited.

Use of AZterknot 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.

Rotational Crop Restrictions

The plant back interval for buckwheat and millet following application of AZterknot fungicide is 12 months. The plant back interval for all other crops with azoxystrobin registered uses is 0 days.

Product Use Instructions

AZterknot is a versatile, broad-spectrum fungicide containing the active ingredient azoxystrobin and the extract of Giant knotweed (*Reynoutria sachalinensis*) in an optimized suspension concentrate (SC) formulation that is compatible with liquid fertilizers. AZterknot provides activity against many important crop diseases and can be used in alternation with other fungicides with a different mode of action, or tank-mixed with such fungicides and other crop protection products.

Azoxystrobin, one of the active ingredients in AZterknot, belongs to the strobilurin class of fungicides. The mode of action is inhibition of respiration which provides activity against all stages in pathogen life cycles. Strobilurins are classified as GROUP 11 FUNGICIDES (Quinone Outside Inhibitors or QoI).

The extract of *Reynoutria sachalinensis* (RSE), the other active ingredient in AZterknot, is classified as a GROUP P5 FUNGICIDE. This active ingredient activates the plant's defense system to increase phenolics and antioxidants, and strengthen cell walls. This mode of action is classified as induced systemic resistance (ISR). Plants also develop an enhanced resistance to further pathogen attacks. This type of enhanced resistance is referred to as systemic acquired resistance (SAR).

RSE can improve plant health and help make the treated portions resistant to certain plant diseases. Plant health benefits often result in greater yields at harvest, especially when crops are stressed by pathogens or environmental conditions. **Use AZterknot primarily as a preventative rather than a curative application.** Apply prior to disease infestation to protect the growing leaf tissue. See specific information below for diseases controlled and use rates.

Application to achieve thorough coverage is required for good disease control.

Integrated Pest Management (IPM)

AZterknot must be used as one component in an integrated disease management program including cultural practices that reduce disease. Consult your local extension specialist or certified crop advisor for local best practices to manage disease. AZterknot may be used in agricultural extension advisory programs (disease forecasting) which advise fungicide applications based on environmental and other factors.

Spray Drift

Mandatory Spray Drift

Ground Boom Applications:

- User must only apply with the release height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to use a medium or coarser droplet size (ASABE S572.1).
- **DO NOT** apply when wind speeds exceed 15 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

Aerial Applications:

- **DO NOT** release spray at a height greater than 10 ft above the ground or vegetative canopy unless a greater application height is necessary for pilot safety.
- Applicators are required to use a medium or coarser droplet size (ASABE S572.1).
- **DO NOT** apply when wind speeds exceed 15 mph at the application site. If the wind speed is greater than 10 mph, the boom length must not exceed 65% or less of the wingspan for fixed wing aircraft or 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must not exceed 75% or less of the wingspan for fixed wing aircraft or 90% or less of the rotor diameter for helicopters.
- Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- **DO NOT** spray during temperature inversions.

Airblast Applications:

- Sprays must be directed into the canopy.
- **DO NOT** apply when wind speeds exceed 15 miles per hour at the application site.
- User must turn off outward pointing nozzles at row ends and when spraying outer rows.
- **DO NOT** apply during temperature inversions.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

SENSITIVE AREAS

Use extreme caution when making applications near non-target aquatic areas; **DO NOT** apply under conditions favoring spray drift onto non-target aquatic areas.

Azoxystrobin is highly phytotoxic to certain apple varieties. **DO NOT** apply where spray drift may reach apple trees. **DO NOT** use equipment that was previously used to apply azoxystrobin to make applications to apple or crabapple trees.

Contact your local extension specialist for spray drift prevention recommendations for your area.

The interaction of many equipment- and weather-related factors determines the potential for spray drift. The applicator and grower are responsible for considering all these factors when making decisions.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size - Ground Boom

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce spray drift.

Controlling Droplet Size - Aircraft

- Adjust Nozzles - Follow nozzle manufacturer' recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

BOOM HEIGHT - Ground Boom

For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT - Aircraft

Higher release heights increase the potential for spray drift.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. **AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.**

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

Application and Mixing Instructions

Shake well before use.

AZterknot is designed for at plant, banded and foliar spray applications and must be diluted before application. In addition, AZterknot may be applied by chemigation – see chemigation instructions below.

AZterknot is a suspension concentrate formulation. Shake or agitate well prior to measuring or pouring. Like most suspension concentrate formulations, AZterknot will thicken and separate into multiple layers upon standing for long periods of time. AZterknot will revert back to an easily flowable and homogenous fluid after a brief shake.

DO NOT prepare more mixture than is required for the treatment. For best results, use immediately after mixing. If the mixtures settles, agitate the mixture and assess to ensure thorough re-mixing prior to application.

Make sure that application equipment is thoroughly cleaned and properly calibrated prior to application and thoroughly cleaned after application.

- Use spray nozzles appropriate for the crop to provide full coverage and uniform distribution of the spray mixture.
- Use screens where appropriate to protect sprayer equipment and prevent clogging.
- Use screens to protect pump on the suction side with no finer than 16-mesh.
- **DO NOT** fit the recirculation line of the spray system with a screen.
- Screens used on the spray nozzles are to be no finer than 50-mesh.
- Use a spray system pump with sufficient capacity to deliver 35-40 psi of pressure to the nozzles and recirculate at least 10% of the tank volume per minute to maintain a uniform mixture.
- Agitate the spray mixture with a jet agitator or liquid sparge tube.
- **DO NOT** use air sparge.

Consult manufacturers of spray equipment for more information on sprayer use, calibration, and recommendations. Consult state agricultural extension recommendations for local directions and spray schedules.

Application Rate Summary Table				
fl oz product/A	lb azoxystrobin/A	lb RSE/A	Treated Acres per Gallon Product	Treated Acres per 2.5 Gallon Jug of Product
5.1	0.07	0.04	25.1	62.7
5.9	0.08	0.05	21.7	54.2
6.6	0.09	0.05	19.4	48.5
7.4	0.10	0.06	17.3	43.2
8.4	0.114	0.07	15.2	38.1
9.2	0.125	0.07	13.9	34.8
9.6	0.13	0.07	13.3	33.3
9.9	0.135	0.08	12.9	32.3
10.3	0.14	0.08	12.4	31.1
11.0	0.15	0.09	11.6	29.1
11.8	0.16	0.09	10.8	27.1
12.5	0.17	0.10	10.2	25.6
12.9	0.175	0.10	9.9	24.8
13.2	0.18	0.10	9.7	24.2
14.7	0.20	0.11	8.7	21.8
16.7	0.228	0.13	7.7	19.2
18.4	0.25	0.14	7.0	17.4
22.1	0.30	0.17	5.8	14.5
24.3	0.33	0.19	5.3	13.2
29.4	0.40	0.23	4.4	10.9

Mixing Instructions

Solo AZterknot application

- Determine the required volume of water or liquid fertilizer for application and fill the spray/mixing tank with ½ - ¾ of this volume.
- Begin agitation of the tank and add the required volume of AZterknot for the fungicide application. While pouring, avoid direct contact of AZterknot with the mix tank wall to achieve the best dispersion.
- Continue agitation while adding the remaining ½ - ½ volume of water or liquid fertilizer to complete the spray mixture.
- Apply the mixture after the contents of the tank are completely dispersed.
- Best practice is to maintain agitation of the spray tank until all of the spray mixture has been applied.
- Thoroughly rinse spray tank with water and dispose of the rinse water by spraying onto a section of the already treated crop.

Tank-Mixture Application

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.

AZterknot Fungicide may be applied in tank mixtures with adjuvants, fertilizers, micronutrients, and with other products approved for use on registered crops. Jar tests (or other similar methods) to ensure compatibility between products should be conducted before use. Incompatibilities may exist with some methylated seed oils, crop oil concentrates, or silicone-based adjuvants; conduct jar tests before using.

AZterknot must not be combined in the spray tank with pesticides, adjuvants or fertilizers unless compatibility charts or your own prior use has shown that the combination is physically compatible, and the combination is effective and non-injurious to the target crop under your use conditions. Consult your local crop consultant or Vive Crop Protection Inc. representative for recommendations on tank mixtures suitable for your crop and region.

When tank mixed with formulated emulsifiable concentrates (EC), AZterknot may exhibit phytotoxic effects. These effects may be more pronounced if cool, cloudy conditions are present at the time of application and extend for several days after application.

When an adjuvant is used, it is advised to use an adjuvant that meets the standards of the Chemical Producers and Distributors Association (CPDA) adjuvant certification.

Tank Mixture Order of Addition

Always follow any specific order of addition instructions on all the tank-mix partner labels. Jar tests (or other similar methods) to ensure order of addition compatibility between products should be conducted before use.

1. Fill tank ⅓ to ½ full with mixing diluent (water, liquid fertilizer, etc.).
2. Begin tank agitation before adding any tank-mix partners.
3. Add any water conditioner/anti-foam/compatibility agents.
4. Add any products packaged in water-soluble packaging and allow to completely dissolve/disperse.
5. Add any wettable powders/flowables (DC, DS, GR, SG, SP).
6. Add any microencapsulated suspensions (ME).
7. Add any liquids and solubles (SC, SU), including AZterknot.
8. Add any emulsifiable concentrates (EC).
9. Add any adjuvants.

Jar Test Procedure

Test potential mixing partners, including adjuvants, for mixing compatibility using a standard jar test or other similar method and for crop safety prior to use on a crop.

The following jar test procedure is advised to evaluate compatibility: Following any product specific instructions for order of addition, pour the advised proportions of the products into a suitable container, mix thoroughly, and allow to stand at least twenty (20) minutes. If the combination remains mixed, or can be re-mixed readily, the mixture is considered physically compatible. If the combination does not remain mixed, or cannot be re-mixed readily, the products are not physically compatible and must not be tank-mixed together.

Instructions for At-Plant and Banded Applications

AZterknot can be applied as a soil-directed application during planting as an in-furrow or T-band application or as an early season banded application over the plant row for control of seedling diseases and soilborne diseases and to improve root growth.

AZterknot is compatible with most liquid fertilizers; see **Mixing Instructions** section for more information.

Refer to the use directions for specific crops to determine if such applications are labeled for a given crop and, if so, for which diseases.

At plant in-furrow or T-band applications are typically more effective against seedling diseases such as damping off whereas banded applications may be more effective against attack by soilborne pathogens after plant establishment. Check with your local extension specialist or certified crop advisor for specific advice on best local practices for seedling disease and soilborne disease control.

Caution: Cool, wet conditions increase the risk of phytotoxicity from soil-directed applications.

At Plant In-Furrow Application Instructions

Use 3-15 gallons of water or liquid fertilizer per acre for in-furrow applications.

Direct the spray into the furrow just before the seed is covered, unless instructed otherwise under the specific crop instructions.

Use the higher rate if conditions are expected to be favorable for disease development, if Pythium is historically a problem in the field, or if minimum or no-till practices are being followed.

Rates for at plant application are 0.5 to 0.9 fl oz AZterknot (0.1 to 0.2 oz azoxystrobin & 0.06 to 0.11 oz RSE) per 1000 row feet.

At Plant In-Furrow Application Rates (fl oz per acre)

Row Spacing	Row ft per Acre	0.5 fl oz per 1000 row feet	0.6 fl oz per 1000 row feet	0.7 fl oz per 1000 row feet	0.8 fl oz per 1000 row feet	0.9 fl oz per 1000 row feet
20	26136	13.1	15.7			
22	23760	11.9	14.3	16.6		
24	21780	10.9	13.1	15.2	17.4	
26	20105	10.1	12.1	14.1	16.1	
28	18669	9.3	11.2	13.1	14.9	16.8
30	17424	8.7	10.5	12.2	13.9	15.7
32	16335	8.2	9.8	11.4	13.1	14.7
34	15374	7.7	9.2	10.8	12.3	13.8
36	14520	7.3	8.7	10.2	11.6	13.1
40	13068	6.5	7.8	9.1	10.5	11.8

IMPORTANT: DO NOT apply more than 17.9 fl oz per acre (shaded region).

**Linear Row Feet Calculation:
522,720 ÷ row spacing (in inches) = Row feet per acre**

0.5 fl oz of AZterknot contains 0.1 oz azoxystrobin and 0.06 oz Extract of *Reynoutria sachalinensis*.

0.9 fl oz of AZterknot contains 0.2 oz azoxystrobin and 0.11 oz Extract of *Reynoutria sachalinensis*.

Banded Application Instructions

Apply AZterknot as a banded spray (maximum width 7 inches) directed at the lower plant stems and surrounding soil; thorough coverage is important.

Rates for early season banded application are 0.5 to 0.9 fl oz of AZterknot (0.1 to 0.2 oz azoxystrobin & 0.06 to 0.11 oz RSE) per 1000 row feet. However, with 22 inch row spacing, the maximum banded application rate is 0.8 fl oz of AZterknot per 1000 row feet (0.26 lb azoxystrobin/A). Banded applications may be combined with cultivation or hilling operations to provide soil incorporation.

Note that a banded application after plant emergence counts as a foliar application in consideration of fungicide resistance management.

Instructions for Foliar Applications

AZterknot can be applied as a spray to above ground plant parts including flowers, foliage, and fruit. Refer to the use directions for specific crops to determine if such applications are labeled for a given crop and, if so, for which plant parts and which diseases.

Use higher label rates and/or shorter application intervals if disease pressure is high and/or conditions are expected to be favorable for disease development.

Thorough coverage is important for control. Adding a tank mix adjuvant, such as a non-ionic surfactant or crop oil concentrate, may improve performance; follow instructions on the adjuvant label.

DO NOT apply when conditions foster drift from the area intended for treatment; follow instructions under the **Spray Drift** section.

Ground Applications

Apply with sufficient water or liquid fertilizer in a manner that provides thorough and uniform coverage to obtain good disease control. Follow spray volume directions listed under specific crops.

Aerial Applications

Apply with sufficient water or liquid fertilizer in a manner that provides uniform coverage for good disease control. Follow spray volume directions listed under specific crops. Dense canopies may limit coverage on lower leaves from aerial applications reducing disease control on those leaves.

Chemigation Use Directions

- Apply this product only through center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, hand move and drip (trickle) irrigation systems. **DO NOT** apply this product through any other type of irrigation system unless specified on this label.
- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- 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, must shut the system down and make necessary adjustments should the need arise.
- Follow rates and application timings given in the specific crop instructions.
- Apply in 0.1 to 0.25 inches of water per acre. Excess water may reduce efficacy.
- The chemical supply tank and injector system must be thoroughly cleaned and flushed with clean water.

Chemigation through Drip Irrigation

- The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 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.
- The system must contain functional inter-locking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 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.
- 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.

- If a pesticide supply tank is used, maintain constant agitation in the supply tank.
- This product may be applied through drip irrigation systems for control of soilborne diseases. Ensure that the soil has adequate moisture capacity prior to drip application.
- Terminate drip irrigation when the fungicide has been depleted from the main supply tank or after 6 hours, whichever comes first.
- For maximum efficacy, delay subsequent irrigation for at least 24 hours following drip application.

Chemigation through Sprinkler Irrigation

- 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.
- 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 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.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 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.
- 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.
- **DO NOT** apply when winds exceed 10-15 miles per hour to avoid drift and uneven coverage.
- Thorough uniform coverage is required for good disease control.
- Maintain good agitation during mixing and throughout the entire application period.
- This product may be applied through the following types of sprinkler irrigation systems: center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, and hand move irrigation systems.
- Apply with $\frac{1}{2}$ acre-inch or less per treatment when using center pivot or continuous-move equipment.
- Use the least amount of water required for proper uniform distribution and coverage.
- When using stationary systems (solid set, handlines or wheel lines other than continuous-move), inject this product into no more than the last 20-30 minutes of the set.
- Allow sufficient time for the fungicide 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, must shut the system down and make necessary adjustments should the need arise.

Center Pivot Irrigation Equipment:

- Use only with drive systems that provide uniform water distribution.
- **DO NOT** use end guns when chemigating through center pivot systems because of non-uniform application.
- Determine the size of the area to be treated.
- Determine the time required to apply $\frac{1}{8}$ - $\frac{1}{2}$ 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 this product 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 product required to treat the area covered by the irrigation system.
- Add the required amount of product 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 product suspension. Time the injection to last at least as long as it takes to bring the system to full pressure.
- Maintain constant chemical supply tank agitation during the injection period.
- Continue to operate the system until the fungicide has cleared the sprinkler head.

Solid Set, Hand Move, and Moving Wheel Irrigation Equipment:

- Determine the acreage covered by the sprinklers.
- Fill injector supply tank with water and adjust flow rate to use the contents over a 20- to 30- minute interval. When applying this product through irrigation equipment use the lowest obtainable water volume while maintaining uniform distribution.
- Determine the amount of product required to treat the area covered by the irrigation system.
- Add the required amount of product 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 fungicide 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, 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 must 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 pipe.

- 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.

Resistance-Management

For resistance management, please note that AZterknot contains both the Group 11 fungicide azoxystrobin and the Group P5 fungicide extract of *Reynoutria sachalinensis*. Any fungal population may contain individuals naturally resistant to AZterknot and other Group 11 fungicides or Group P5 fungicides. A gradual or total loss of disease control may occur over time if these fungicides are used repeatedly in the same fields. Appropriate resistance-management strategies are advised.

To delay fungicide resistance, take one or more of the following steps:

- Rotate the use of AZterknot or other Group 11 fungicides within a growing season sequence with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Adopt an integrated disease management program for fungicide use that includes scouting, uses historical information related to pesticide use, and crop rotation, and which considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance contact Vive Crop Protection Inc. at 1-888-760-0187. You can also contact your pesticide distributor or university extension specialist to report resistance.
- **DO NOT** use less than specified label rates when applying GROUP 11 fungicides solo or in tank mixtures. **DO NOT** use reduced rates of tank mix partners.
- When using GROUP 11 fungicides for solo applications, make no more than one-third of the year's fungicide applications with GROUP 11 fungicides.
- When using GROUP 11 fungicides for tank-mix or premix applications with a non-GROUP 11 fungicide(s), make no more than one-half of the year's fungicide applications with the GROUP 11/non-GROUP 11 mix.

- When using GROUP 11 fungicides for both solo applications and for tank-mix or premix applications with a non-GROUP 11 fungicide(s), make no more than one-half of the year's fungicide applications using a GROUP 11 fungicide.
- When alternating non-GROUP 11 fungicide applications with GROUP 11 fungicide applications, make at least as many consecutive non-GROUP 11 applications as consecutive GROUP 11 applications. For example, if two consecutive GROUP 11 applications had been made before alternating to the non-GROUP 11 applications, then make at least two non-GROUP 11 applications before making another GROUP 11 application.

SPECIFIC USE DIRECTIONS FOR CROP PLANTS

ALFALFA

For pure/mixed stands of alfalfa

(See **NONGRASS ANIMAL FEEDS (FORAGE, FODDER, STRAW AND HAY) GROUP 18** for additional directions)

FOLIAR DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Alternaria Leaf Spot (<i>Alternaria</i> spp.) Anthracnose (<i>Colletotrichum trifolii</i> , <i>Colletotrichum</i> spp.) Black Patch (<i>Rhizoctonia leguminicola</i>) Common Leaf Spot (<i>Pseudopeziza medicaginis</i>) Downy Mildew (<i>Peronospora</i> spp.) Leaf Spot (<i>Leptosphaerulina briosiana</i>) Powdery Mildew (<i>Erysiphe</i> spp., <i>Oidium</i> spp.) Rhizoctonia and Stem Blight (<i>Rhizoctonia solani</i>) Rust (<i>Uromyces</i> spp.) Spring Black Stem and Leaf Spot (<i>Phoma medicaginis</i>) Stagonospora Leaf Spot (<i>Stagonospora melliloti</i>) Stemphylium Leaf Spot (<i>Stemphylium</i> spp.) Summer Black Stem and Leaf Spot (<i>Cercospora medicaginis</i>) Yellow Leaf Blotch (<i>Leptotrichila medicaginis</i>)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)
Broadcast Instructions: <ul style="list-style-type: none"> • Begin applications prior to disease onset and continue throughout the season following resistance management guidelines. • Use higher rate when disease pressure is high. • Apply with sufficient spray volume to ensure thorough coverage. • May be applied by ground, air, or chemigation. 	

(continued)

ALFALFA (continued)

Specific Use Restrictions:

- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Location Restrictions: DO NOT** use on rangeland.
- **Maximum Single Application: DO NOT** apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per cutting.
- **Annual Maximum:**
 - **DO NOT** exceed 55.2 fl oz of AZterknot (0.75 lb azoxystrobin and 0.43 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 0.75 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 3 applications per calendar year at the high rate of 18.4 fl oz/A, or 4 applications per calendar year at 12.5 fl oz/A, or 7 applications per calendar year at the low rate of 7.4 fl oz/A.
- **Application Interval: DO NOT** make applications less than 14 days apart.
- **Pre-Harvest Interval (PHI): DO NOT** apply within 14 days of grazing or harvest for forage and hay (14-day PHI).
- **Resistance Management: DO NOT** make more than 3 consecutive foliar applications of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

ALMONDS

FOLIAR / FRUIT DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Alternaria Leaf and Fruit Spot (<i>Alternaria alternata</i>) Anthracnose ¹ (<i>Colletotrichum acutatum</i>) Leaf Blight (<i>Seimatosporium lichenicola</i>) Leaf Rust (<i>Tranzschella discolor</i>) Scab ¹ (<i>Cladosporium carpophilum</i>) Shot Hole ¹ (<i>Wilsonomyces carpophilus</i>)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)
Blossom Blight ² , Brown Rot (<i>Monilinia</i> spp.)	14.7 - 18.4 (0.20 - 0.25 0.11 - 0.14)
Broadcast Instructions: <ul style="list-style-type: none"> • Begin applications prior to disease onset and continue throughout the season following resistance management guidelines. • Apply with sufficient spray volume to ensure thorough coverage. Efficacy may be reduced if unable to achieve thorough coverage. For aerial applications, use a minimum of 15 gallons spray volume per acre. DO NOT apply aerially later than 5 weeks after petal fall. • May be applied by ground, air, or chemigation. 	
Instructions for Specific Diseases: <ul style="list-style-type: none"> • ¹Anthracnose, scab and shot hole: Begin applications prior to disease onset then follow a 7- to 14-day spray schedule throughout the year. • ²Monilinia blossom blight: Apply the first application at early bloom and continue through petal fall. 	

(continued)

ALMONDS *(continued)*

Precautions:

- Some sensitive varieties may exhibit petal staining and/or necrosis after application at high application rates or high spray concentrations. To minimize petal staining and/or necrosis:
 - If using an adjuvant, use adjuvants that improve coverage but **DO NOT** use adjuvants that increase penetration.
 - Use adjuvants that are known through prior experience to not affect petal integrity when combined with AZterknot.
- Apply in a minimum of 70 gallons per acre of spray volume from bud through bloom.

Specific Use Restrictions:

- Not for use in Florida.
- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Application Timing:** **DO NOT** apply aerially later than 5 weeks after petal fall.
- **Maximum Single Application:** **DO NOT** apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 110.3 fl oz of AZterknot (1.5 lb azoxystrobin and 0.86 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 1.5 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 5 applications per calendar year at the high rate of 18.4 fl oz/A, or 7 applications per calendar year at 14.7 fl oz/A, or 14 applications per calendar year at the low rate of 7.4 fl oz/A.
- **Application Interval:** **DO NOT** make applications less than 7 days apart.
- **Pre-Harvest Interval (PHI):** **DO NOT** apply within 28 days of harvest (28-day PHI).
- **Resistance Management:** **DO NOT** make more than 2 consecutive foliar applications of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

ARTICHOKE, GLOBE

FOLIAR DISEASE	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Ramularia Leaf Spot (<i>Ramularia cynarae</i>)	13.2 - 18.4 (0.18 - 0.25 0.10 - 0.14)

Broadcast Instructions:

- Begin applications prior to or immediately after disease onset and continue on a 14- to 21-day spray schedule throughout the season following resistance management guidelines.
- Apply in 50 - 200 gallons per acre of spray volume by ground or 5 gallons per acre by air to achieve thorough coverage and avoid excessive runoff.
- May be applied by ground, air, or chemigation.

(continued)

ARTICHOKE, GLOBE *(continued)*

Specific Use Restrictions:

- Not for use in Florida.
- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Maximum Single Application:** **DO NOT** apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 110.3 fl oz of AZterknot (1.5 lb azoxystrobin and 0.86 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 1.5 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 5 applications per calendar year at the high rate of 18.4 fl oz/A, or 8 applications per calendar year at the low rate of 13.2 fl oz/A.
- **Application Interval:** **DO NOT** make applications less than 7 days apart.
- **Pre-Harvest Interval (PHI):** May be applied on the day of harvest (0-day PHI).
- **Resistance Management:** **DO NOT** make more than 1 foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

ASPARAGUS

FOLIAR DISEASE	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Stemphylium Purple Spot (<i>Stemphylium vesicarium</i>)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)

Broadcast Instructions:

- Begin applications prior to disease onset and continue on a 7- to 14-day spray schedule throughout the season following resistance management guidelines.
- Apply in a minimum of 10 gallons per acre of final spray by ground or 3 gallons per acre by air to achieve thorough coverage.
- May be applied by ground, air, or chemigation.

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ASPARAGUS *(continued)*

Specific Use Restrictions:

- Not for use in Florida.
- For outdoor use only.
- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Maximum Single Application:** **DO NOT** apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 110.3 fl oz of AZterknot (1.5 lb azoxystrobin and 0.86 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 1.5 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 5 applications per calendar year at the high rate of 18.4 fl oz/A, or 14 applications per calendar year at the low rate of 7.4 fl oz/A.
- **Application Interval:** **DO NOT** make applications less than 7 days apart.
- **Pre-Harvest Interval (PHI):** **DO NOT** apply within 100 days of harvest (100-day PHI).
- **Resistance Management:** **DO NOT** make more than 1 foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

BANANAS; PLANTAINS

FOLIAR DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Black Sigatoka (<i>Mycosphaerella fijiensis</i>)	6.6 – 9.9
Yellow Sigatoka (<i>Mycosphaerella musicola</i>)	(0.09 - 0.135 0.05 - 0.08)
Broadcast Instructions:	
<ul style="list-style-type: none"> • Begin applications prior to disease onset and continue on a 12- to 14-day spray schedule throughout the season following resistance management guidelines. • Apply with sufficient spray volume to ensure thorough coverage. • May be applied by ground, air, or chemigation. 	

(continued)

BANANAS; PLANTAINS *(continued)*

Specific Use Restrictions:

- Not for use in Florida.
- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Maximum Single Application:** **DO NOT** apply more than 9.9 fl oz (0.135 lb azoxystrobin and 0.08 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 79.4 fl oz of AZterknot (1.08 lb azoxystrobin and 0.62 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 1.08 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 8 applications per calendar year at the high rate of 9.9 fl oz/A, or 12 applications per calendar year at the low rate of 6.6 fl oz/A.
- **Application Interval:** **DO NOT** make applications less than 12 days apart.
- **Pre-Harvest Interval (PHI):** May be applied the day of harvest (0-day PHI).
- **Resistance Management:** **DO NOT** make more than 2 sequential foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

BERRY AND SMALL FRUIT CROP GROUP - CANEBERRY SUBGROUP 13-07A

Blackberry; loganberry; raspberry, red and black; wild raspberry; including cultivars, varieties, and/or hybrids of these.

FOLIAR DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Anthracnose (<i>Elsinoe veneta</i> ; <i>Sphaceloma necator</i>) Botryosphaeria Canker (<i>Botryosphaeria dothidea</i>) Colletotrichum Rot (<i>Colletotrichum gloeosporioides</i>) Leaf Spot and Blotch (<i>Mycosphaerella</i> spp.; <i>Septoria rubi</i> ; <i>Sphaerulina rubi</i>) Powdery Mildew (<i>Microsphaera</i> spp.; <i>Oidium</i> spp.; <i>Sphaerotheca</i> spp.) Rosette or Double Blossom of Blackberries (<i>Cercospora rubi</i>) Spur Blight (<i>Xenodidymella applanata</i>)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)
Blackberry Rust (<i>Phragmidium</i> spp.)	11.8 - 18.4 (0.16 - 0.25 0.09 - 0.14)
Broadcast Instructions:	
<ul style="list-style-type: none"> • Begin applications at disease onset and continue as needed until harvest on a 7- to 14-day spray schedule following resistance management guidelines. • Apply in a minimum of 10 gallons per acre of spray volume by ground or 3 gallons per acre by air to achieve thorough coverage. • May be applied by ground, air, or chemigation. 	

(continued)

BERRY AND SMALL FRUIT CROP GROUP - CANEBERRY SUBGROUP 13-07A *(continued)*

Specific Use Restrictions:

- Not for use in Florida.
- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Maximum Single Application: DO NOT** apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 110.3 fl oz of AZterknot (1.5 lb azoxystrobin and 0.86 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 1.5 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 5 applications per calendar year at the high rate of 18.4 fl oz/A, or 9 applications per calendar year at 11.8 fl oz/A, or 14 applications per calendar year at the low rate of 7.4 fl oz/A.
- **Application Interval: DO NOT** make applications less than 7 days apart.
- **Pre-Harvest Interval (PHI):** May be applied the day of harvest (0-day PHI).
- **Resistance Management: DO NOT** make more than 2 consecutive foliar applications of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

BERRY AND SMALL FRUIT CROP GROUP - BUSHBERRY SUBGROUP 13-07B

Aronia berry; blueberry, highbush; blueberry, lowbush; buffalo currant; Chilean guava; currant, black; currant, red; elderberry; European, barberry; gooseberry; cranberry, highbush; honeysuckle, edible; huckleberry; jostaberry; Juneberry; lingonberry; native currant; salal; sea buckthorn; including cultivars, varieties, and/or hybrids of these.

FOLIAR / FRUIT DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Alternaria Fruit Rot (<i>Alternaria</i> spp.) Anthracnose Fruit Rot (<i>Colletotrichum gloeosporioides</i>) Botryosphaeria Canker (<i>Botryosphaeria</i> spp.) Leaf Spot and Blotch (<i>Mycosphaerella</i> spp.; <i>Septoria</i> spp.) Mummy Berry (<i>Monilinia vaccinii-corymbos</i>) Phomopsis Leaf Spot, Twig Blight and Stem Canker (<i>Phomopsis vaccinii</i>) Powdery Mildew (<i>Sphaerotheca</i> spp.) Septoria Blight (<i>Septoria</i> spp.) Spur Blight (<i>Didymella</i> spp., <i>Phoma</i> spp.)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)

(continued)

BERRY AND SMALL FRUIT CROP GROUP - BUSHBERRY SUBGROUP 13-07B *(continued)*

Broadcast Instructions:

- Begin applications prior to disease onset and continue on a 7- to 14-day spray schedule throughout the season following resistance management guidelines.
- Apply in a minimum of 35 gallons per acre of spray volume by ground to achieve thorough coverage.
- May be applied by ground, air, or chemigation.

Specific Use Restrictions:

- Not for use in Florida.
- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Maximum Single Application: DO NOT** apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 55.2 fl oz of AZterknot (0.75 lb azoxystrobin and 0.43 RSE) per acre per calendar year.
 - **DO NOT** exceed 0.75 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 3 applications per calendar year at the high rate of 18.4 fl oz/A, or 7 applications per calendar year at the low rate of 7.4 fl oz/A.
- **Application Interval: DO NOT** make applications less than 7 days apart.
- **Pre-Harvest Interval (PHI):** May be applied the day of harvest (0-day PHI).
- **Resistance Management: DO NOT** make more than 2 consecutive foliar applications of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

BERRY AND SMALL FRUIT CROP GROUP - SMALL FRUIT VINE CLIMBING SUBGROUP 13-07F (EXCEPT FUZZY KIWIFRUIT)

Amur river grape; grape, kiwifruit, hardy; Maypop; muscadines; schisandra berry; including all cultivars, varieties and/or hybrids of these. (Excluding gooseberry).

FOLIAR / FRUIT DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
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>)	11.8 - 18.4 (0.16 - 0.25 0.09 - 0.14)

(continued)

BERRY AND SMALL FRUIT CROP GROUP - SMALL FRUIT VINE CLIMBING SUBGROUP 13-07F

(EXCEPT FUZZY KIWIFRUIT) *(continued)*

<p>Broadcast Instructions:</p> <ul style="list-style-type: none"> Begin applications prior to disease onset and continue on a 10- to 14-day spray schedule throughout the season following resistance management guidelines. Apply in a minimum of 35 gallons per acre of spray volume by ground to achieve thorough coverage. May be applied by ground, air, or chemigation.
<p>Precautions:</p> <ul style="list-style-type: none"> Azoxystrobin is phytotoxic to certain apple and crabapple varieties. It is the applicator's responsibility to take necessary precautions to ensure that spray drift does not reach apples or crabapples. Also, DO NOT use spray equipment that has previously been used to apply azoxystrobin to make applications to apples or crabapples.
<p>Specific Use Restrictions:</p> <ul style="list-style-type: none"> Not for use in Florida. Application Method: Ground, air, or chemigation applications are permitted. Maximum Single Application: DO NOT apply more than 18.4 fl oz (0.25 lb azoxystrobin 0.14 lb RSE) per acre per application. Annual Maximum: <ul style="list-style-type: none"> DO NOT exceed 110.3 fl oz of AZterknot (1.5 lb azoxystrobin and 0.86 lb RSE) per acre per calendar year. DO NOT exceed 1.5 lb azoxystrobin/A per calendar year from all azoxystrobin containing products. DO NOT apply more than 5 applications per calendar year at the high rate of 18.4 fl oz/A, or 9 applications per calendar year at the low rate of 11.8 fl oz/A. Application Interval: DO NOT make applications less than 10 days apart. Pre-Harvest Interval (PHI): DO NOT apply within 14 days of harvest (14-day PHI). Resistance Management: DO NOT make more than 2 consecutive foliar applications of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

BERRY AND SMALL FRUIT CROP GROUP - LOW GROWING BERRY SUBGROUP 13-07G

Bearberry; bilberry; cloudberry; muntries; partridgeberry; strawberry; including all cultivars, varieties and/or hybrids of these. (Excluding blueberry, lowbush; cranberry; lingonberry).

(See BERRY AND SMALL FRUIT CROP GROUP - LOW GROWING BERRY SUBGROUP 13-07H (EXCEPT STRAWBERRY) for additional directions)

	<p>USE RATES</p> <p>fl oz product/ 100 gallons water (lb azoxystrobin/ 100 gallons water lb RSE/100 gallons water)</p>
<p>SOIL DISEASE (At Transplant)</p>	
<p>Suppression of Root and Crown Rot (<i>Anthraco-nose</i>) (<i>Colletotrichum</i> spp.)</p>	<p>5.9 - 9.6 (0.08 - 0.13 0.05 - 0.07)</p>
<p>Drip at Transplant Instructions:</p> <ul style="list-style-type: none"> Wash soil off transplant roots then dip transplants for 2 - 5 minutes. Plant transplants as soon as possible after dipping. See Instructions for Specific Diseases for control of Anthracnose after planting. 	
	<p>fl oz product/ 1000 row feet (oz azoxystrobin/ 1000 row feet oz RSE/1000 row feet)</p>
<p>SOIL DISEASES</p>	
<p>Seedling Root Rot, Basal Stem Rot (<i>Rhizoctonia solani</i>)</p>	<p>0.5 - 0.9 (0.1 - 0.2 0.06 - 0.11)</p>
<p>Banded Application Instructions:</p> <ul style="list-style-type: none"> Apply as a banded spray over the row targeting the plant bases and surrounding soil. Thorough coverage of these areas is important for good disease control. See Instructions for At-Plant and Banded Applications for additional directions. 	
	<p>fl oz product/A (lb azoxystrobin/A lb RSE/A)</p>
<p>Anthraco-nose¹ (<i>Colletotrichum fragariae</i>) Leather Rot² (<i>Phytophthora cactorum</i>) Powdery Mildew (<i>Sphaerotheca macularis</i>)</p>	<p>7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)</p>
<p>Suppression only: Botrytis Bunch Rot (<i>Botrytis cinerea</i>)</p>	
<p>Broadcast Instructions:</p> <ul style="list-style-type: none"> Begin applications prior to disease onset and continue on a 7- to 10-day spray schedule throughout the season following resistance management guidelines. Apply in a minimum of 35 gallons per acre of spray volume by ground to achieve thorough coverage. May be applied by ground, air, or chemigation. May be applied to young plants in field nurseries by ground or by drip or overhead chemigation. If applied by drip, calculate the rate as a band application (see above) with the band width equal to the width of the root zone. Inject AZterknot into the irrigation water. 	

(continued)

BERRY AND SMALL FRUIT CROP GROUP - LOW GROWING BERRY SUBGROUP 13-07G *(continued)*

Instructions for Specific Diseases:

- **1st Anthracnose:** Begin foliar applications 2 - 3 weeks after transplanting.
- **2nd Leather Rot:** Make two applications, the first at late bloom and the second 7 days later.

Specific Use Restrictions:

- Not for use in Florida.
- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Maximum Single Application: DO NOT** apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 73.6 fl oz of AZterknot (1.0 lb azoxystrobin and 0.57 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 1.0 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 4 applications per calendar year at the high rate of 18.4 fl oz/A, or 9 applications per calendar year at the low rate of 7.4 fl oz/A.
- **Application Interval: DO NOT** make applications less than 7 days apart.
- **Pre-Harvest Interval (PHI):** May be applied the day of harvest (0-day PHI).
- **Resistance Management: DO NOT** make more than 2 consecutive foliar applications of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

BERRY AND SMALL FRUIT CROP GROUP - LOW GROWING BERRY SUBGROUP 13-07H (EXCEPT STRAWBERRY)

Bearberry; bilberry; blueberry, lowbush; cloudberry; cranberry; lingonberry; muntries; partridgeberry; including all cultivars, varieties, and/or cultivars of these.

FOLIAR / FRUIT DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Cottonball ¹ (<i>Monilinia oxycocc</i>)	
Fruit Rot ¹ (<i>Physalospora vaccinii</i> ; <i>Glomerella cingulata</i> ; <i>Coleophoma empetri</i>)	7.4 - 18.4
Lophodermium Twig Blight ¹ (<i>Lophodermium</i> spp.)	(0.10 - 0.25 0.06 - 0.14)
Suppression of Fairy Ring ² (<i>Psilocybe</i> spp.)	18.4 (0.25 0.14)

(continued)

BERRY AND SMALL FRUIT CROP GROUP - LOW GROWING BERRY SUBGROUP 13-07H (EXCEPT STRAWBERRY) *(continued)*

Broadcast Instructions:

- **1st Cottonball, Fruit Rots, Lophodermium Twig Blight:** Begin applications at 5 - 10% bloom and continue on a 7- to 14-day spray schedule if conditions are favorable for disease development, with no more than two consecutive applications of AZterknot or other Group 11 fungicide before alternating to a fungicide with a different mode of action. Adding a tank mix adjuvant, such as a non-ionic surfactant, may improve performance; follow instructions on the adjuvant label. Apply in a minimum of 35 gallons per acre of spray volume by ground to achieve thorough coverage. AZterknot may be applied by ground, air or chemigation.
- **2nd Suppression of Fairy Ring:** Make the first application at bud break treating an area extending 10 feet out from the diameter of the Fairy Ring using 9.7 fl oz of AZterknot in 35 - 100 gallons of spray volume. Following application, 1 - 2 hours of irrigation is advised to foster penetration to the plant bases. Thorough canopy penetration is essential. If needed, a second application can be made 2 - 4 weeks later.

Specific Use Restrictions:

- Not for use in Florida.
- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Location Restrictions:**
 - **DO NOT** apply to cranberry fields that are used for aquaculture of fish or crustaceans.
 - **DO NOT** use when the crop is flooded.
 - Apply in a manner to prevent spray drift to non-target aquatic areas. Use extreme caution when making applications near non-target aquatic areas; **DO NOT** apply under weather conditions favoring spray drift onto non-target aquatic areas.
 - **DO NOT** allow release of irrigation or flood water to non-target aquatic areas within 14 days of the last application.
- **Maximum Single Application: DO NOT** apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 110.3 fl oz of AZterknot (1.5 lb azoxystrobin and 0.86 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 1.5 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 5 applications per calendar year at the high rate of 18.4 fl oz/A, or 14 applications per calendar year at the low rate of 7.4 fl oz/A.
- **Application Interval: DO NOT** make applications less than 7 days apart.
- **Pre-Harvest Interval (PHI): DO NOT** apply within 3 days of harvest (3-day PHI).
- **Resistance Management: DO NOT** make more than 2 consecutive foliar applications of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

BRASSICA (COLE) LEAFY VEGETABLES CROP GROUP - HEAD AND STEM BRASSICA SUBGROUP 5A

Broccoli; broccoli, Chinese; brussels sprouts; cabbage; cabbage, Chinese (napa); cabbage, Chinese mustard; cauliflower; cavalo broccolo; kohlrabi; including all cultivars, varieties and/or hybrids of these.

FOLIAR DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
<p>Alternaria Diseases including Alternaria Leaf Spot and Pin Rot (<i>Alternaria</i> spp.) Anthracnose (<i>Colletotrichum</i> spp.) Cercospora Leaf Spot (<i>Cercospora brassicola</i>) Downy Mildew (<i>Hyaloperonospora parasitica</i>) Powdery Mildew (<i>Erysiphe polygoni</i>) Rhizoctonia Blight (<i>Rhizoctonia solani</i>) Ring Spot (<i>Mycosphaerella brassicicola</i>) White Leaf Spot (<i>Pseudocercospora capsellae</i>) White Rust (<i>Albugo candida</i>)</p>	<p>7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)</p>
<p>Broadcast Instructions:</p> <ul style="list-style-type: none"> Begin applications prior to disease onset and continue on a 7- to 14-day spray schedule throughout the season following resistance management guidelines. Apply in a minimum of 10 gallons per acre of spray volume by ground or 3 gallons per acre by air to achieve thorough coverage. May be applied by ground, air, or chemigation. 	
<p>Specific Use Restrictions:</p> <ul style="list-style-type: none"> Not for use in Florida. For outdoor use only. Application Method: Ground, air, or chemigation applications are permitted. Maximum Single Application: DO NOT apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application. Annual Maximum: <ul style="list-style-type: none"> DO NOT exceed 110.3 fl oz of AZterknot (1.5 lb azoxystrobin and 0.86 lb RSE) per acre per calendar year. DO NOT exceed 1.5 lb azoxystrobin/A per calendar year from all azoxystrobin containing products. DO NOT apply more than 5 applications per calendar year at the high rate of 18.4 fl oz/A, or 14 applications per calendar year at the low rate of 7.4 fl oz/A. Application Interval: DO NOT make applications less than 7 days apart. Pre-Harvest Interval (PHI): May be applied the day of harvest (0-day PHI). Resistance Management: DO NOT make more than 2 consecutive foliar applications of any Group 11 fungicides before alternating to a fungicide with a different mode of action. 	

BRASSICA (COLE) LEAFY VEGETABLES CROP GROUP - LEAFY BRASSICA GREENS SUBGROUP 5B

Broccoli raab (rapini); cabbage, Chinese (bok choy); collards; kale; mizuna; mustard greens; mustard spinach; rape greens; including all cultivars, varieties and/or hybrids of these.

SOIL DISEASES	USE RATES
	fl oz product/ 1000 row feet (oz azoxystrobin/ 1000 row feet oz RSE/1000 row feet)
<p>Seedling Root Rot, Basal Stem Rot (<i>Rhizoctonia solani</i>)</p>	<p>0.5 - 0.9 (0.1 - 0.2 0.06 - 0.11)</p>
<p>At-Plant / Banded Instructions:</p> <ul style="list-style-type: none"> Following best local practice, apply in-furrow as a spray or apply as a banded spray over the row targeting the plant bases and surrounding soil with thorough coverage of these areas important for good disease control. See Instructions for At-Plant and Banded Applications for additional directions. 	
FOLIAR DISEASES	fl oz product/A (lb azoxystrobin/A lb RSE/A)
<p>Alternaria Diseases including Alternaria Leaf Spot and Black Spot (<i>Alternaria</i> spp.) Anthracnose (<i>Colletotrichum</i> spp.) Cercospora Leaf Spot (<i>Cercospora</i> spp.) Downy Mildew (<i>Hyaloperonospora parasitica</i>) Powdery Mildew (<i>Erysiphe polygoni</i>) Ring Spot (<i>Mycosphaerella brassicicola</i>) White Rust (<i>Albugo candida</i>)</p>	<p>7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)</p>
<p>Broadcast Instructions:</p> <ul style="list-style-type: none"> Begin applications prior to disease onset and continue on a 7- to 14-day spray schedule throughout the season following resistance management guidelines. Apply with sufficient spray volume to ensure thorough coverage. May be applied by ground, air, or chemigation. 	

(continued)

BRASSICA (COLE) LEAFY VEGETABLES CROP GROUP - LEAFY BRASSICA GREENS SUBGROUP 5B

(continued)

<p>Specific Use Restrictions:</p> <ul style="list-style-type: none"> • Not for use in Florida. • For outdoor use only. <p>Application Method: Ground, air, or chemigation applications are permitted.</p> <p>Maximum Single Application: DO NOT apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application.</p> <p>Annual Maximum:</p> <ul style="list-style-type: none"> • DO NOT exceed 55.2 fl oz of AZterknot (0.75 lb azoxystrobin and 0.43 lb RSE) per acre per calendar year. • DO NOT exceed 0.75 lb azoxystrobin/A per calendar year from all azoxystrobin containing products. • DO NOT apply more than 3 applications per calendar year at the high rate of 18.4 fl oz/A, or 7 applications per calendar year at the low rate of 7.4 fl oz/A. <p>Application Interval: DO NOT make applications less than 7 days apart.</p> <p>Pre-Harvest Interval (PHI): May be applied the day of harvest (0-day PHI).</p> <p>Resistance Management: DO NOT make more than 1 foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action.</p>
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BULB VEGETABLES CROP GROUP 3-07

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; including all cultivars, varieties, and/or hybrids of these.

SOIL DISEASE	USE RATES
	fl oz product/ 1000 row feet (oz azoxystrobin/ 1000 row feet oz RSE/1000 row feet)
Rhizoctonia Damping Off (<i>Rhizoctonia solani</i>)	0.5 - 0.9 (0.1 - 0.2 0.06 - 0.11)
<p>At-Plant / Banded Instructions:</p> <ul style="list-style-type: none"> • Following best local practice, apply in-furrow as a spray or apply as a banded spray over the row targeting the plant bases and surrounding soil with thorough coverage of these areas important for good disease control. • Caution: If applied in-furrow, spray furrow prior to seed placement to reduce phytotoxicity risk. This is especially important if fertilizer is added to the application. • See Instructions for At-Plant and Banded Applications for additional directions. 	

(continued)

BULB VEGETABLES CROP GROUP 3-07

(continued)

FOLIAR DISEASES	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Leaf Blotch (<i>Cladosporium allii</i> , <i>C. allii-cepae</i>) Powdery Mildew (<i>Leveillula taurica</i>) Purple Blotch and Leaf Blight (<i>Alternaria porri</i> ; <i>Stemphylium vesicarium</i>) Rust (<i>Puccinia allii</i>)	7.4 - 14.7 (0.10 - 0.20 0.06 - 0.11)
Botrytis Leaf Blight (<i>Botrytis</i> spp.) Downy Mildew ¹ (<i>Peronospora destructor</i>)	11.0 - 18.4 (0.15 - 0.25 0.09 - 0.14)
<p>Broadcast Instructions:</p> <ul style="list-style-type: none"> • Begin applications prior to disease onset and continue on a 7- to 14-day spray schedule throughout the season following resistance management guidelines. • Apply with sufficient spray volume to ensure thorough coverage. • May be applied by ground, air, or chemigation. Use the higher label rates for aerial applications. 	
<p>Instructions for Specific Diseases:</p> <ul style="list-style-type: none"> • 'Downy Mildew: Begin applications prior to disease onset and continue on a 5- to 7-day preventative spray schedule following resistance management guidelines. 	
<p>Instructions for Specific Diseases:</p> <ul style="list-style-type: none"> • 'Downy Mildew: Begin applications prior to disease onset and continue on a 5- to 7-day preventative spray schedule following resistance management guidelines. 	
<p>Specific Use Restrictions:</p> <ul style="list-style-type: none"> • Not for use in Florida. • For outdoor use only. <p>Application Method: Ground, air, or chemigation applications are permitted.</p> <p>Maximum Single Application: DO NOT apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application.</p> <p>Annual Maximum:</p> <ul style="list-style-type: none"> • DO NOT exceed 110.3 fl oz of AZterknot (1.5 lb azoxystrobin and 0.86 lb RSE) per acre per calendar year. • DO NOT exceed 1.5 lb azoxystrobin/A per calendar year from all azoxystrobin containing products. • DO NOT apply more than 5 applications per calendar year at the high rate of 18.4 fl oz/A, or 7 applications per calendar year at 14.7 fl oz/A, or 10 applications per calendar year at 11.0 fl oz/A, or 14 applications per calendar year at the low rate of 7.4 fl oz/A. <p>Application Interval: DO NOT make applications less than 5 days apart.</p> <p>Pre-Harvest Interval (PHI): May be applied the day of harvest (0-day PHI).</p> <p>Resistance Management: DO NOT make more than 1 foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action.</p>	

CANOLA

(See OILSEED CROP GROUP 20 for additional directions.)

FOLIAR DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Alternaria Black Spot ¹ (<i>Alternaria</i> spp.) Blackleg ² (<i>Leptosphaeria maculans</i>) Sclerotinia Stem Rot ³ (<i>Sclerotinia sclerotiorum</i>)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)

Broadcast Instructions:

- In general, for disease control, apply 8.3 fl oz of AZterknot per acre at early bud with a second application of 16.7 fl oz per acre approximately 45 days before harvest. If disease pressure warrants, a third application of 8.3 fl oz per acre may be made 30 days before harvest. Follow resistance management guidelines for all applications.
- Apply with sufficient spray volume to ensure thorough coverage. For ground applications, use a minimum of 10 gallons spray volume per acre.
- May be applied by ground, air, or chemigation.

Instructions for Specific Diseases:

- **¹Alternaria alone:** Apply 11.0 fl oz of AZterknot per acre at pod stage (approximately 95% petal fall).
- **^{1,3}Alternaria and Sclerotinia:** Apply 11.0 - 18.4 fl oz of AZterknot per acre at 10 - 25% flowering (3 - 7 days after first flower). Under high disease pressure or conditions favorable for disease development, use the high rate.
- **²Blackleg:** Apply at the 2- to 4-leaf stage.

Specific Use Restrictions:

- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Maximum Single Application: DO NOT** apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 33.1 fl oz of AZterknot (0.45 lb azoxystrobin and 0.26 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 0.45 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 1 application per calendar year at the high rate of 18.4 fl oz/A, or 4 applications per calendar year at the low rate of 7.4 fl oz/A.
- **Application Interval: DO NOT** make applications less than 14 days apart.
- **Pre-Harvest Interval (PHI): DO NOT** apply within 30 days of harvest (30-day PHI).
- **Resistance Management: DO NOT** make more than 1 foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

CARROTS

(See ROOT VEGETABLES (EXCEPT SUGAR BEET) SUBGROUP 1B for additional directions.)

SOIL DISEASE	USE RATES
	fl oz product/ 1000 row feet (oz azoxystrobin/ 1000 row feet oz RSE/1000 row feet)
Rhizoctonia Root Rot (<i>Rhizoctonia solani</i>)	0.5 - 0.9 (0.1 - 0.2 0.06 - 0.11)

At-Plant / Banded Instructions:

- Following best local practice, apply in-furrow as a spray or apply as a banded spray over the row targeting the plant bases and surrounding soil with thorough coverage of these areas being important for good disease control.
- See **Instructions for At-Plant and Banded Applications** for additional directions.

FOLIAR DISEASES	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Alternaria Leaf Blight (Late Blight) (<i>Alternaria dauci</i>) Cercospora Leaf Blight (Early Blight) (<i>Cercospora carotae</i>) Cercospora Leaf Spot (<i>Cercospora</i> spp.) Powdery Mildew (<i>Erysiphe</i> spp.) White Mold (<i>Sclerotium rolfsii</i>)	11.0 - 24.3 (0.15 - 0.33 0.09 - 0.19)

Broadcast Instructions:

- Begin applications prior to disease onset and continue on a 7- to 14-day spray schedule throughout the season following resistance management guidelines.
- Apply with sufficient spray volume to ensure thorough coverage.
- May be applied by ground, air, or chemigation.

Specific Use Restrictions:

- Not for use in Florida.
- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Maximum Single Application: DO NOT** apply more than 24.3 fl oz (0.33 lb azoxystrobin and 0.19 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 147.1 fl oz of AZterknot (2.0 lb azoxystrobin and 1.15 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 2.0 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 6 application per calendar year at the high rate of 24.3 fl oz/A, or 13 applications per calendar year at the low rate of 11.0 fl oz/A.
- **Application Interval: DO NOT** make applications less than 7 days apart.
- **Pre-Harvest Interval (PHI):** May be applied the day of harvest (0-day PHI).
- **Resistance Management: DO NOT** make more than 1 foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

CELERY

(See LEAFY VEGETABLES (EXCEPT BRASSICA VEGETABLES) CROP GROUP 4 for additional directions)

SOIL DISEASE	USE RATES
	fl oz product/ 1000 row feet (oz azoxystrobin/ 1000 row feet oz RSE/1000 row feet)
Rhizoctonia Root Rot (<i>Rhizoctonia solani</i>)	0.5 - 0.9 (0.1 - 0.2 0.06 - 0.11)
At-Plant / Banded Instructions:	
<ul style="list-style-type: none"> Following best local practice, apply in-furrow as a spray or apply as a banded spray over the row targeting the plant bases and surrounding soil with thorough coverage of these areas important for good disease control. See Instructions for At-Plant and Banded Applications for additional directions. 	
FOLIAR DISEASES	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Early Blight (<i>Cercospora apii</i>)	11.0 - 18.4
Late Blight (<i>Septoria apicicola</i>)	(0.15 - 0.25 0.09 - 0.14)

Broadcast Instructions:

- Begin applications prior to disease onset and continue on a 7- to 14-day spray schedule throughout the season following resistance management guidelines.
- Apply with sufficient spray volume to ensure thorough coverage.
- May be applied by ground, air, or chemigation.

Specific Use Restrictions:

- Not for use in Florida.
- For outdoor use only.
- Application Method:** Ground, air, or chemigation applications are permitted.
- Maximum Single Application: DO NOT** apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application.
- Annual Maximum:**
 - DO NOT** exceed 110.3 fl oz of AZterknot (1.5 lb azoxystrobin and 0.86 lb RSE) per acre per calendar year.
 - DO NOT** exceed 1.5 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - DO NOT** apply more than 5 application per calendar year at the high rate of 18.4 fl oz/A, or 10 applications per calendar year at the low rate of 11.0 fl oz/A.
- Application Interval: DO NOT** make applications less than 7 days apart.
- Pre-Harvest Interval (PHI):** May be applied the day of harvest (0-day PHI).
- Resistance Management: DO NOT** make more than 1 foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

CEREALS

Barley; Oats; Rye

FOLIAR DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Kernel Blight or Black Point (<i>Alternaria</i> spp.; <i>Cochliobolus sativus</i>)	7.4 - 14.7 (0.10 - 0.20 0.06 - 0.11)
Leaf Rust (<i>Puccinia hordei</i> ; <i>P. recondita</i>)	
Barley Stripe (<i>Drechslera</i> (<i>Pyrenophora</i>) <i>graminea</i>)	
Net Blotch (<i>Pyrenophora teres</i>)	
Scald (<i>Rhynchosporium secalis</i>)	
Leaf and Glume Blotch (<i>Septoria</i> spp.; <i>Stagonospora</i> spp.)	11.0 - 14.7 (0.15 - 0.20 0.09 - 0.11)
Spot Blotch (<i>Cochliobolus sativus</i>)	
Stem Rust (<i>Puccinia graminis</i> f. sp. <i>tritici</i>)	
Stripe Rust (<i>Puccinia striiformis</i>)	
Tan Spot (<i>Pyrenophora trichostroma</i>)	
Powdery Mildew (<i>Blumeria</i> (<i>Erysiphe</i>) <i>graminis</i> f. sp. <i>hordei</i>)	14.7 (0.20 0.11)
Stagonospora Blotch (<i>Stagonospora nodorum</i>)	

Broadcast Instructions:

- Begin applications prior to disease onset following resistance management guidelines. Protecting the flag leaf is important for disease control.
- Apply with sufficient spray volume to ensure thorough coverage.
- May be applied by ground, air, or chemigation. For chemigation apply in 0.1 to 0.25 inches of water per acre. Excessive chemigation water may reduce efficacy.

Specific Use Restrictions:

- Application Method:** Ground, air, or chemigation applications are permitted.
- Application Timing: DO NOT** apply after Feekes 10.54 (flowering completed).
- Maximum Single Application: DO NOT** apply more than 14.7 fl oz (0.20 lb azoxystrobin and 0.11 lb RSE) per acre per application.
- Annual Maximum:**
 - DO NOT** exceed 29.4 fl oz of AZterknot (0.40 lb azoxystrobin and 0.23 lb RSE) per acre per calendar year.
 - DO NOT** exceed 0.40 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - DO NOT** apply more than 2 application per calendar year at the high rate of 14.7 fl oz/A, or 2 applications per calendar year at 11.0 fl oz/A, or 3 applications per calendar year at the low rate of 7.4 fl oz/A.
- Application Interval: DO NOT** make applications less than 14 days apart.
- Pre-Harvest Interval (PHI): DO NOT** apply within 7 days of grazing or harvest for forage and hay (7-day PHI).
- Resistance Management: DO NOT** make more than 2 sequential foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action. **DO NOT** make more than 2 applications of any Group 11 fungicides per season.

CEREALS

Wheat, Triticale

FOLIAR / STEM DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Leaf Rust (<i>Puccinia triticina</i>) Septoria Leaf and Glume Blotch (<i>Septoria tritici</i> (<i>Mycosphaerella graminicola</i>), <i>Stagonospora nodorum</i>) Stem Rust (<i>Puccinia graminis</i>) Stripe Rust (<i>Puccinia striiformis</i>) Tan Spot (<i>Pyrenophora tritici-repentis</i>)	5.1 - 14.7 (0.07 - 0.20 0.04 - 0.11)
Powdery Mildew (<i>Blumeria (Erysiphe) graminis</i>)	9.2 - 12.9 (0.125 - 0.175 0.07 - 0.10)
Broadcast Instructions: <ul style="list-style-type: none"> Begin applications prior to disease onset following resistance management guidelines. Apply with sufficient spray volume to ensure thorough coverage. May be applied by ground, air, or chemigation. 	
Specific Use Restrictions: <ul style="list-style-type: none"> Application Method: Ground, air, or chemigation applications are permitted. Application Timing: DO NOT apply after Feekes 10.54 (flowering completed). Maximum Single Application: DO NOT apply more than 14.7 fl oz/A (0.20 lb azoxystrobin and 0.11 lb RSE) per acre per application. Annual Maximum: <ul style="list-style-type: none"> DO NOT exceed 29.4 fl oz of AZterknot (0.40 lb azoxystrobin and 0.23 lb RSE) per acre per calendar year. DO NOT exceed 0.40 lb azoxystrobin/A per calendar year from all azoxystrobin containing products. DO NOT apply more than 2 application per calendar year at the high rate of 14.7 fl oz/A, or 2 applications per calendar year at 12.9 fl oz/A, or 3 applications per calendar year at 9.2 fl oz/A, or 5 applications per calendar year at the low rate of 5.1 fl oz/A. Application Interval: DO NOT make applications less than 14 days apart. Pre-Harvest Interval (PHI): Forage and Hay: DO NOT apply within 7 days of harvest (7-day PHI). Grazing: DO NOT apply within 14 days of grazing (14-day PHI). Resistance Management: DO NOT make more than 2 sequential foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action. DO NOT make more than 2 applications of any Group 11 fungicides per season. 	

CHRISTMAS TREES

FOLIAR DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Diplodia Tip Blight (<i>Diplodia pinea</i>) Lophodermium Needle Cast (<i>Lophodermium pinastri</i>) Swiss Needle Cast (<i>Phaeocryptopus gaeumannii</i>)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)
Broadcast Instructions: <ul style="list-style-type: none"> Begin applications prior to disease onset and continue on a 7- to 21-day spray schedule throughout the season following resistance management guidelines. Apply with sufficient spray volume to ensure thorough coverage. May be applied by ground, air, or chemigation. 	
Specific Use Restrictions: <ul style="list-style-type: none"> Not for use in Florida. Application Method: Ground, air, or chemigation applications are permitted. Maximum Single Application: <ul style="list-style-type: none"> DO NOT apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application. Applications Applied by Handheld or Directed Spray: DO NOT exceed 0.90 fl oz/gal (0.0125 lb azoxystrobin/gal) in the final spray volume. Annual Maximum: <ul style="list-style-type: none"> DO NOT exceed 147.1 fl oz of AZterknot (2.0 lb azoxystrobin and 1.15 lb RSE) per acre per calendar year. DO NOT exceed 2.0 lb azoxystrobin/A per calendar year from all azoxystrobin containing products. DO NOT apply more than 7 application per calendar year at the high rate of 18.4 fl oz/A, or 19 applications per calendar year at the low rate of 7.4 fl oz/A. Application Interval: DO NOT make applications less than 7 days apart. Resistance Management: DO NOT make more than 2 sequential foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action. 	

CITRUS FRUIT CROP GROUP 10-10

Australian desert lime; Australian finger lime; Australian round lime; Brown River finger lime; calamondin; citron; citrus hybrids; grapefruit; Japanese summer grapefruit; kumquat; lemon; lime; Mediterranean mandarin; Mount White lime; New Guinea wild lime; orange, sour; orange, sweet; pummelo; Russell River lime; satsuma mandarin; sweet lime; tachibana orange; Tahiti lime; tangelo; tangerine (mandarin); tangor; trifoliolate orange; uni-qu fruit; including all cultivars, varieties and/or hybrids of these.

FOLIAR DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Albinism (<i>Alternaria alternata</i> pv. <i>citri</i>) Alternaria Leaf and Fruit Spot (<i>Alternaria citri</i>) Anthracnose (<i>Colletotrichum acutatum</i> , <i>C. gloeosporioides</i>) Cercospora Leaf Spot (<i>Cercospora</i> spp.) Diplodia Stem-End Rot (<i>Diplodia natalensis</i>) Greasy Spot ¹ (<i>Mycosphaerella citri</i>) Melanose (<i>Diaporthe citri</i>) Penicillium Decay, Green Mold, Whisker Mold, Suppression of Blue Mold (<i>Penicillium</i> spp.) Phomopsis Stem-End Rot (<i>Phomopsis citri</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>)	14.7 - 18.4 (0.20 - 0.25 0.11 - 0.14)
Black Spot (<i>Guignardia citricarpa</i>)	11.0 - 18.4 (0.15 - 0.25 0.09 - 0.14)
Broadcast Instructions:	
<ul style="list-style-type: none"> Begin applications prior to disease onset and continue on a 7- to 21-day spray schedule throughout the season following resistance management guidelines. Apply with sufficient spray volume to ensure thorough coverage. May be applied by ground, air, or chemigation. Use higher rates when conditions are favorable for disease development. 	
Instructions for Specific Diseases:	
<ul style="list-style-type: none"> *Greasy Spot: Addition of a horticultural spray oil is advised for control. 	

(continued)

CITRUS FRUIT CROP GROUP 10-10

(continued)

Specific Use Restrictions:
<ul style="list-style-type: none"> Not for use in Florida. Application Method: Ground, air, or chemigation applications are permitted. Location Restrictions: DO NOT use in citrus plan propagation nurseries. Maximum Single Application: DO NOT apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application. Annual Maximum: <ul style="list-style-type: none"> DO NOT exceed 110.3 fl oz of AZterknot (1.5 lb azoxystrobin and 0.86 lb RSE) per acre per calendar year. DO NOT exceed 1.5 lb azoxystrobin/A per calendar year from all azoxystrobin containing products. DO NOT apply more than 5 application per calendar year at the high rate of 18.4 fl oz/A, or 7 applications per calendar year at 14.7 fl oz/A, or 10 applications per calendar year at the low rate of 11.0 fl oz/A. Application Interval: DO NOT make applications less than 7 days apart. Pre-Harvest Interval (PHI): May be applied the day of harvest (0-day PHI). Resistance Management: DO NOT make more than 2 sequential foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action. DO NOT make more than 4 foliar applications of any Group 11 fungicides per season.

CORN

Field; Pop; Sweet; including seed production

SOIL DISEASE	USE RATES
	fl oz product/ 1000 row feet (oz azoxystrobin/ 1000 row feet oz RSE/1000 row feet)
Rhizoctonia Root and Stalk Rot (<i>Rhizoctonia solani</i>)	0.5 - 0.9 (0.1 - 0.2 0.06 - 0.11)
At-Plant / Banded Instructions:	
<ul style="list-style-type: none"> Following best local practice, apply in-furrow as a spray or dribble, or apply as a banded spray over the row targeting the plant bases and surrounding soil with thorough coverage of these areas important for good disease control. See Instructions for At-Plant and Banded Applications for additional directions. 	
FOLIAR DISEASES	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Rust (<i>Puccinia</i> spp.)	7.4 - 11.0 (0.10 - 0.15 0.06 - 0.09)

(continued)

CORN *(continued)*

Anthracnose Leaf Blight (<i>Colletotrichum graminicola</i>) Eye Spot (<i>Aureobasidium zeae</i>) Gray Leaf Spot ¹ (<i>Cercospora sorghi</i>) Northern Corn Leaf Blight (<i>Setosphaeria turcica</i>) Northern Corn Leaf Spot (<i>Cochliobolus carbonum</i>) Physotherma Brown Spot (<i>Physotherma maydis</i>) Southern Corn Leaf Blight (<i>Cochliobolus heterostrophus</i>) Southern Rust (<i>Puccinia polyspora</i>)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)
Applications at V4 – V8 ² : Early Diseases Beneficial Physiological Effects	7.4 (0.10 0.06)
Broadcast Instructions:	
<ul style="list-style-type: none"> Begin applications prior to disease onset and continue on a 7- to 21-day spray schedule throughout the season following resistance management guidelines. Apply with sufficient spray volume to ensure thorough coverage. May be applied by ground, air, or chemigation. 	
Instructions for Specific Diseases:	
<ul style="list-style-type: none"> 1Gray Leaf Spot: Begin application at disease onset. Follow with a second application 14 days later if disease pressure persists. 2Apply at V4 – V8 for early disease control and crop physiological benefits. Consult your local Vive Crop Protection representatives if you are tank mixing with herbicides other than solo glyphosate. 	
Specific Use Restrictions:	
<ul style="list-style-type: none"> Application Method: Ground, air, or chemigation applications are permitted. Maximum Single Application: DO NOT apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application. Annual Maximum: <ul style="list-style-type: none"> DO NOT exceed 147.1 fl oz of AZterknol (2.0 lb azoxystrobin and 1.15 lb RSE) per acre per calendar year. DO NOT exceed 2.0 lb azoxystrobin/A per calendar year from all azoxystrobin containing products. DO NOT apply more than 7 application per calendar year at the high rate of 18.4 fl oz/A, or 13 applications per calendar year at 11.0 fl oz/A, or 19 applications per calendar year at the low rate of 7.4 fl oz/A. Application Interval: DO NOT make applications less than 7 days apart. Pre-Harvest Interval (PHI): DO NOT apply within 7 days of harvest (7-day PHI). Resistance Management: DO NOT make more than 2 sequential foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action. For field corn and field corn grown for seed DO NOT make more than 2 foliar applications of any Group 11 fungicides per season. 	

COTTON

SOIL DISEASES	USE RATES
	fl oz product/ 1000 row feet (oz azoxystrobin/ 1000 row feet oz RSE/1000 row feet)
Pythium Seedling Blight (<i>Pythium</i> spp.) Rhizoctonia Seedling Blight (<i>Rhizoctonia solani</i>)	0.5 - 0.9 (0.1 - 0.2 0.06 - 0.11)
At-Plant Instructions:	
<ul style="list-style-type: none"> Apply in-furrow as a spray in 3-7 gallons of spray volume per acre, applying spray just prior to furrow closure. Use the higher rate if conditions are expected to be favorable for disease development, if the field has a history of Pythium Seedling Blight, or if minimum tillage is used. See Instructions for At-Plant and Banded Applications for additional directions. 	
FOLIAR DISEASES	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Alternaria Leaf Spot (<i>Alternaria</i> spp.) Anthracnose (<i>Glomerella gossypii</i>) Areolate Mildew (<i>Ramularia gossypii</i>) Ascochyta Blight (<i>Ascochyta gossypii</i>) Boll Rot (<i>Ascochyta gossypii</i> ; <i>Alternaria</i> spp.; <i>Diplodia</i> spp.; <i>Phoma</i> spp.) Cotton Rust (<i>Puccinia schedonnardi</i> ; <i>Puccinia</i> spp.) Hardlock (<i>Fusarium verticillioides</i>) Leaf Spot and Blight (<i>Alternaria</i> spp.; <i>Ascochyta gossypii</i> ; <i>Cercospora</i> spp.; <i>Stemphylium</i> spp.) Southwestern Cotton Rust (<i>Puccinia cacabata</i> ; <i>Puccinia</i> spp.) Stemphylium Leaf Spot (<i>Stemphylium</i> spp.) Target Spot (<i>Corynespora cassiicola</i>)	7.4 - 10.8 (0.10 - 0.15 0.06 - 0.08)
Broadcast Instructions:	
<ul style="list-style-type: none"> Begin applications prior to disease onset or at the early stage of disease, typically at pinhead square to first bloom, and continue on a 14- to 21-day spray schedule throughout the season following resistance management guidelines. Under conditions favoring seedling / young plant diseases, apply early in the year to suppress damping off and other diseases which reduce stand count. Apply in a minimum of 10 gallons per acre of spray volume by ground, or 5 gallons per acre by air to achieve thorough coverage. May be applied by ground, air, or chemigation. 	

(continued)

COTTON *(continued)*

Specific Use Restrictions:

- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Maximum Single Application: DO NOT** apply more than 10.8 fl oz (0.15 lb azoxystrobin and 0.08 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 32.4 fl oz of AZterknot (0.44 lb azoxystrobin and 0.25 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 0.44 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 3 application per calendar year at the high rate of 10.8 fl oz/A, or 4 applications per calendar year at the low rate of 7.4 fl oz/A.
- **Application Interval: DO NOT** make applications less than 14 days apart.
- **Pre-Harvest Interval (PHI): DO NOT** apply within 45 days of harvest (45-day PHI).
- **Resistance Management: DO NOT** make more than 2 sequential foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action. **DO NOT** make more than 3 foliar applications of any Group 11 fungicides per season.

CUCURBIT VEGETABLES CROP GROUP 9

Chayote (fruit); Chinese wax gourd; citron melon; cucumber; gourd, edible; Momordica spp.; muskmelon; pumpkin; squash, summer; squash, winter; watermelon; including all cultivars, varieties and/or hybrids of these. (excluding gherkin)

SOIL DISEASE	USE RATES
	fl oz product/ 1000 row feet (oz azoxystrobin/ 1000 row feet oz RSE/1000 row feet)
Rhizoctonia Root Rot (<i>Rhizoctonia solani</i>)	0.5 - 0.9 (0.1 - 0.2 0.06 - 0.11)

At-Plant / Banded Instructions:

- Following best local practice, apply in-furrow as a spray or apply as a banded spray over the row targeting the plant bases and surrounding soil with thorough coverage of these areas important for good disease control.
- See **Instructions for At-Plant and Banded Applications** for additional directions.

(continued)

CUCURBIT VEGETABLES CROP

GROUP 9 *(continued)*

FOLIAR DISEASES	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Alternaria Blight (<i>Alternaria cucumerina</i>) Anthracnose (<i>Colletotrichum orbiculare</i> ; <i>C. lagenarium</i>) Belly Rot ² (<i>Rhizoctonia solani</i>) Cercospora Leaf Spot (<i>Cercospora citrullina</i>) Downy Mildew ¹ (<i>Pseudoperonospora cubensis</i>) Gummy Stem Blight (<i>Didymella bryoniae</i>) Leaf Spot (<i>Alternaria</i> spp., <i>Cercospora</i> spp.) Myrothecium Canker (<i>Myrothecium roridum</i>) Plectosporium Blight (<i>Plectosporium tabacinum</i>) Powdery Mildew ¹ (<i>Sphaerotheca fuliginea</i> ; <i>Erysiphe cichoracearum</i>) Target Leaf Spot (<i>Corynespora cassiicola</i>) Ulocladium Leaf Spot (<i>Ulocladium cucurbitae</i>)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)

Broadcast Instructions:

- Begin applications prior to disease onset and continue on a 7- to 14-day spray schedule throughout the season following resistance management guidelines.
- Apply with sufficient spray volume to ensure thorough coverage.
- May be applied by ground, air, or chemigation.

Precautions:

- Tank-mixing with other adjuvant types, insecticides, and other fungicides may increase the risk of phytotoxicity and must be tested for crop safety before using.

Specific Disease Instructions:

- **¹Downy Mildew and Powdery Mildew:** Begin applications prior to disease onset and continue on a 5- to 7-day preventative spray schedule following resistance management guidelines.
- **²Belly Rot:** Make the first application at the 1- to 3-leaf stage and the second application just prior to vine tip over or 10-14 days later, whichever comes first.

(continued)

CUCURBIT VEGETABLES CROP

GROUP 9 *(continued)*

Specific Use Restrictions:

- Not for use in Florida.
- For outdoor use only.
- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Maximum Single Application:** **DO NOT** apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 110.3 fl oz of AZterknot (1.5 lb azoxystrobin and 0.86 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 1.5 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 5 application per calendar year at the high rate of 18.4 fl oz/A, or 14 applications per calendar year at the low rate of 7.4 fl oz/A.
- **Application Interval:** **DO NOT** make applications less than 5 days apart.
- **Pre-Harvest Interval (PHI):** **DO NOT** apply within 1 day of harvest (1-day PHI).
- **Resistance Management:** **DO NOT** make more than 1 foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action. **DO NOT** make more than 4 foliar applications of any Group 11 fungicides per season.

FRUITING VEGETABLES CROP

GROUP - PEPPER / EGGPLANT

SUBGROUP 8-10B

African eggplant; bell pepper; eggplant; Martynia; nonbell pepper; okra; pea eggplant; pepino; roselle; scarlet eggplant; including all cultivars, varieties and/or hybrids of these.

SOIL DISEASE	USE RATES
	fl oz product/ 1000 row feet (oz azoxystrobin/ 1000 row feet oz RSE/1000 row feet)
Rhizoctonia Seedling Rot (<i>Rhizoctonia solani</i>)	0.5 - 0.9 (0.1 - 0.2 0.06 - 0.11)
At-Plant / Banded Instructions:	
<ul style="list-style-type: none"> • Following best local practice, apply in-furrow as a spray or apply as a banded spray over the row targeting the plant bases and surrounding soil with thorough coverage of these areas important for good disease control. • See Instructions for At-Plant and Banded Applications for additional directions. 	
FOLIAR DISEASES	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Anthracoise (<i>Colletotrichum</i> spp.) Powdery Mildew (<i>Leveillula</i> spp., <i>Sphaerotheca</i> spp.)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)

(continued)

FRUITING VEGETABLES CROP

GROUP - PEPPER / EGGPLANT

SUBGROUP 8-10B *(continued)*

Broadcast Instructions:

- Begin applications prior to disease onset and continue on a 7- to 14-day spray schedule throughout the season following resistance management guidelines.
- Apply with sufficient spray volume to ensure thorough coverage.
- May be applied by ground, air, or chemigation.

Specific Use Restrictions:

- Not for use in Florida.
- For outdoor use only.
- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Maximum Single Application:** **DO NOT** apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 73.6 fl oz of AZterknot (1.0 lb azoxystrobin and 0.57 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 1.0 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 4 application per calendar year at the high rate of 18.4 fl oz/A, or 10 applications per calendar year at the low rate of 7.4 fl oz/A.
- **Application Interval:** **DO NOT** make applications less than 7 days apart.
- **Pre-Harvest Interval (PHI):** May be applied the day of harvest (0-day PHI).
- **Resistance Management:** **DO NOT** make more than 1 foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

GRASSES GROWN FOR SEED

FOLIAR DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Ergot Stem Disease (<i>Claviceps purpurea</i>) Powdery Mildew (<i>Erysiphe graminis</i>) Rust (<i>Puccinia</i> spp.)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)
Broadcast Instructions:	
<ul style="list-style-type: none"> • Begin applications prior to disease onset and continue on a 10- to 14-day spray schedule throughout the season following resistance management guidelines. • Apply with sufficient spray volume to ensure thorough coverage. • May be applied by ground, air, or chemigation. 	

(continued)

GRASSES GROWN FOR SEED *(continued)*

Specific Use Restrictions:

- Not for use in Florida.
- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Maximum Single Application:** **DO NOT** apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 58.9 fl oz of AZterknot (0.8 lb azoxystrobin and 0.46 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 0.8 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 3 application per calendar year at the high rate of 18.4 fl oz/A, or 7 applications per calendar year at the low rate of 7.4 fl oz/A.
- **Application Interval:** **DO NOT** make applications less than 10 days apart.
- **Pre-Harvest Interval (PHI):** **DO NOT** apply within 8 days of harvest (swathing) (8-day PHI).
- **Resistance Management:** **DO NOT** make more than 2 sequential foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

HERBS AND SPICES CROP GROUP 19 (EXCLUDING BLACK PEPPER)

Herbs: Angelica; balm; basil; borage; burnet; camomile; catnip; chervil (dried); chive; chive, Chinese; clary; coriander (cilantro or Chinese parsley) (leaf); costmary; culantro (leaf); curry (leaf); dillweed; horehound; hyssop; lavender; lemongrass; lovage (leaf); marigold; marjoram (includes sweet or annual marjoram, wild marjoram or oregano, and pot marjoram); nasturtium; parsley (dried); pennyroyal; rosemary; rue; sage; savory, summer and winter; sweet bay; tansy; tarragon; thyme; wintergreen; woodruff; and wormwood

Spices: Allspice; anise (seed); anise, star; annatto (seed); caper (buds); caraway; caraway, black; cardamom; cassia (buds); celery (seed); cinnamon; clove (buds); coriander (seed); culantro (seed); cumin; dill (seed); fennel, common; fennel, Florence (seed); fenugreek; grains of paradise; juniper (berry); lovage (seed); mace; mustard (seed); nutmeg; pepper, white; poppy (seed); saffron; and vanilla.

FOLIAR DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Dill Blight (<i>Cercosporidium punctum</i>) Phoma Blight (<i>Passalora puncta</i>) Corynespora Blight (<i>Corynespora cassiicola</i>)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)
Broadcast Instructions:	
<ul style="list-style-type: none"> • Begin applications prior to disease onset and continue on a 7- to 14-day spray schedule throughout the season following resistance management guidelines. • Apply in a minimum of 30 gallons per acre of spray volume by ground to achieve thorough coverage. • May be applied by ground only. 	

(continued)

HERBS AND SPICES CROP GROUP 19 (EXCLUDING BLACK PEPPER) *(continued)*

Specific Disease Instructions:

- **'Downy Mildew:**
 - **Basil Plug Production:** When growing young plants from seed in a multi-cell germination tray before transferring to a larger pot make a single application after plant emergence prior to disease development. Apply to foliage at 30 gallons per acre of spray volume to ensure thorough coverage. Make no more than 1 application of AZterknot during this plug production phase.
 - **Finish Production:** When growing young plants to a desired size suitable to sell in garden centers, large format retailers, or other retailers who sell plants to consumers for home and garden use make an application to the plants after transplanting from plugs to their final container. Apply to foliage at 30 gallons per acre of spray volume to ensure thorough coverage. Make no more than 1 application of AZterknot during this finish production phase.
- Make no more than 1 foliar application during the plug phase, and no more than 1 foliar application during the finish phase. Alternate to alternative chemistries for control of downy mildew and make applications on a weekly schedule as a part of an integrated disease management program.

Specific Use Restrictions:

- Not for use in Florida.
- For outdoor use only.
- **Application Method:** Ground applications are permitted. **DO NOT** apply by air or chemigation.
- **Maximum Single Application:** **DO NOT** apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 110.3 fl oz of AZterknot (1.5 lb azoxystrobin and 0.86 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 1.5 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 5 application per calendar year at the high rate of 18.4 fl oz/A, or 14 applications per calendar year at the low rate of 7.4 fl oz/A.
- **Application Interval:** **DO NOT** make applications less than 7 days apart.
- **Pre-Harvest Interval (PHI):** May be applied the day of harvest (0-day PHI).
- **Resistance Management:** **DO NOT** make more than 2 sequential foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

LEAFY VEGETABLES (EXCEPT BRASSICA VEGETABLES) CROP GROUP 4

Amaranth; arugula; cardoon; celery; celery, Chinese; celtuce; chervil; chrysanthemum, edible-leaved; chrysanthemum, garland ; corn salad; cress, garden; cress, upland; dandelion; dock; endive; fennel, Florence; lettuce, head and leaf; orach; parsley; purslane, garden; purslane, winter; radicchio (red chicory); rhubarb; spinach; spinach, New Zealand; spinach, vine; Swiss chard; including all cultivars, varieties and/or hybrids of these.

SOIL DISEASES	USE RATES
	fl oz product/ 1000 row feet (oz azoxystrobin/ 1000 row feet oz RSE/1000 row feet)
Web Blight, Bottom Rot, Crater Rot, Root Rot (<i>Rhizoctonia solani</i>)	0.5 - 0.9 (0.1 - 0.2 0.06 - 0.11)
At-Plant / Banded Instructions:	
<ul style="list-style-type: none"> Following best local practice, apply in-furrow as a spray or apply as a banded spray over the row targeting the plant bases and surrounding soil with thorough coverage of these areas important for good disease control. See Instructions for At-Plant and Banded Applications for additional directions. 	
FOLIAR DISEASES	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Alternaria Leaf Spot (<i>Alternaria sonchi</i> , <i>Alternaria</i> spp.) Anthracnose (<i>Microdochium panattonianum</i> , <i>Colletotrichum dematium</i>) Ascochyta Leaf Spot (<i>Ascochyta</i> spp.) Cercospora Leaf Spot (<i>Cercospora</i> spp.) Rust (<i>Puccinia</i> spp.; <i>Uromyces</i> spp.) Septoria Leaf Spot (<i>Septoria petroselinii</i> , <i>Septoria</i> spp.) White Rust (<i>Albugo occidentalis</i>)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)
Downy Mildew ¹ (<i>Bremia lactucae</i>) Powdery Mildew ¹ (<i>Erysiphe cichoracearum</i>)	14.7 - 18.4 (0.20 - 0.25 0.11 - 0.14)
Broadcast Instructions:	
<ul style="list-style-type: none"> Begin applications prior to disease onset and continue on a 7- to 14-day spray schedule throughout the season following resistance management guidelines. Apply in a minimum of 35 gallons per acre of spray volume by ground or 5 gallons per acre by air to achieve thorough coverage. May be applied by ground, air, or chemigation. 	

(continued)

LEAFY VEGETABLES (EXCEPT BRASSICA VEGETABLES) CROP GROUP 4 (continued)

Precautions:

- Applications of azoxystrobin may contribute to phytotoxicity to leafy vegetables under certain circumstances. Tank-mixing with silicone-type adjuvants, insecticides, and other fungicides may increase the risk of phytotoxicity and must be tested for crop safety before using. Tank-mixing with any material that increases foliar penetration of azoxystrobin increases the risk of phytotoxicity.
- DO NOT** apply AZterknot when extended or unseasonably cold and/or cloudy conditions are expected.
- DO NOT** apply AZterknot when night-time temperatures will fall below 45°F and relative humidity is predicted to be above 80%. Applications during daylight hours are preferred over night-time applications.

Specific Disease Instructions:

- 'Downy Mildew and Powdery Mildew:** Make applications prior to disease onset and continue on a 5- to 7-day preventative spray schedule with no more than one application of AZterknot or other Group 11 fungicide before alternating to a fungicide with a different mode of action.

Specific Use Restrictions:

- Not for use in Florida.
- For outdoor use only.
- Application Method:** Ground, air, or chemigation applications are permitted.
- Maximum Single Application: DO NOT** apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application.
- Annual Maximum:**
 - DO NOT** exceed 110.3 fl oz of AZterknot (1.5 lb azoxystrobin and 0.86 lb RSE) per acre per calendar year.
 - DO NOT** exceed 1.5 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - DO NOT** apply more than 5 application per calendar year at the high rate of 18.4 fl oz/A, or 7 applications at 14.7 fl oz/A, or 14 applications per calendar year at the low rate of 7.4 fl oz/A.
- Application Interval: DO NOT** make applications less than 5 days apart.
- Pre-Harvest Interval (PHI):** May be applied the day of harvest (0-day PHI).
- Resistance Management: DO NOT** make more than 1 foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

LEGUME VEGETABLES (SUCCULENT OR DRIED) CROP GROUP 6 & FOLIAGE OF LEGUME VEGETABLES CROP

GROUP 7

Bean (*Lupinus* spp.) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin); bean (*Phaseolus* spp.) (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean); bean (*Vigna* spp.) (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean); broad bean; chickpea; guar; jackbean; lablab bean; lentil; pea (*Pisum* spp.) (includes dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea); pigeon pea; soybean (immature seed / edamame); sword bean; including all cultivars, varieties and/or hybrids of these including plant parts used as animal feed.

(see SOYBEANS for additional directions)

SOIL DISEASE	USE RATES
Rhizoctonia Root Rot (<i>Rhizoctonia solani</i>)	0.5 - 0.9 (0.1 - 0.2 0.06 - 0.11)
At-Plant / Banded Instructions:	
<ul style="list-style-type: none"> Following best local practice, apply in-furrow as a spray or apply as a banded spray over the row targeting the plant bases and surrounding soil with thorough coverage of these areas important for good disease control. If applied in-furrow either apply as a 7-inch T-band over the seed, or a narrower spray or stream directed to the soil adjacent to seed rather than directly on seed to increase crop safety. See Instructions for At-Plant and Banded Applications for additional directions. 	
Precautions:	
<ul style="list-style-type: none"> In-furrow application in a narrow stream directed on the seed may cause delayed emergence in some varieties. Consult with your local extension service or certified crop advisor for recommendations with your specific crop variety in your area. Alternatively, test for seed safety with your crop before applying in-furrow. 	
FOLIAR & FRUIT DISEASES	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Bean Rust (<i>Uromyces appendiculatus</i>)	7.4 (0.10 0.06)

(continued)

LEGUME VEGETABLES (SUCCULENT OR DRIED) CROP GROUP 6 & FOLIAGE OF LEGUME VEGETABLES CROP

GROUP 7 (continued)

Alternaria Blight (<i>Alternaria</i> spp.) Alternaria Leaf Spot (<i>Alternaria alternata</i>) Anthracnose (<i>Colletotrichum lindemuthianum</i> ; <i>Colletotrichum</i> spp.) 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>)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)
Broadcast Instructions:	
<ul style="list-style-type: none"> Begin applications prior to disease onset and continue on a 7- to 14-day spray schedule throughout the season following resistance management guidelines. Apply with sufficient spray volume to ensure thorough coverage. May be applied by ground, air, or emulsion. Use higher rate when disease pressure is high. 	
Specific Use Restrictions:	
<ul style="list-style-type: none"> Application Method: Ground, air, or chemigation applications are permitted. Maximum Single Application: DO NOT apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application. Annual Maximum: <ul style="list-style-type: none"> DO NOT exceed 110.3 fl oz of AZterknot (1.5 lb azoxystrobin and 0.86 lb RSE) per acre per calendar year. DO NOT exceed 1.5 lb azoxystrobin/A per calendar year from all azoxystrobin containing products. DO NOT apply more than 5 application per calendar year at the high rate of 18.4 fl oz/A, or 14 applications per calendar year at the low rate of 7.4 fl oz/A. Application Interval: DO NOT make applications less than 7 days apart. Pre-Harvest Interval (PHI): <ul style="list-style-type: none"> Dry Legume Vegetables: DO NOT apply within 14 days of harvest (14-day PHI). Succulent Beans and Peas: May be applied the day of harvest (0-day PHI). Resistance Management: DO NOT make more than 2 sequential foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action. 	

NONGRASS ANIMAL FEEDS (FORAGE, FODDER, STRAW AND HAY) CROP GROUP 18

For pure/mixed stands of the following or stands mixed with grasses: Alfalfa; bean, velvet; clover; kudzu; lespedeza; lupin; sainfoin; trefoil; vetch; vetch, crown; vetch, milk.

(See ALFALFA for additional directions)

FOLIAR DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Alternaria Leaf Spot (<i>Alternaria</i> spp.) Anthracnose (<i>Colletotrichum trifolii</i> , <i>Colletotrichum</i> spp.) Black Patch (<i>Rhizoctonia leguminicola</i>) Cercospora Leaf Spot (<i>Cercospora</i> spp.) Common Leaf Spot (<i>Pseudopeziza medicaginis</i>) Downy Mildew (<i>Peronospora</i> spp.) Leaf spot (<i>Leptosphaerulina briosiana</i>) Powdery Mildew (<i>Erysiphe</i> spp., <i>Oidium</i> spp.) Rhizoctonia and Stem Blight (<i>Rhizoctonia solani</i>) Rust ¹ (<i>Phakopsora</i> spp.; <i>Uromyces</i> spp.) Spring Black Stem and Leaf Spot (<i>Phoma medicaginis</i>) Stagonospora Leaf Spot (<i>Stagonospora melloti</i>) Stemphylium Leaf Spot (<i>Stemphylium</i> spp.) Summer Black Stem and Leaf Spot (<i>Cercospora medicaginis</i>) Yellow Leaf Blotch (<i>Leptotrichila medicaginis</i>)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)
Sclerotinia Crown Rot and Wilt on Clover (<i>Sclerotinia trifoliorum</i>)	12.5 (0.17 0.10)

Broadcast Instructions:

- Begin applications prior to disease onset and continue throughout the season following resistance management guidelines.
- Use higher rate when disease pressure is high.
- Apply with sufficient spray volume to ensure thorough coverage.
- May be applied by ground, air, or chemigation.

Specific Disease Instructions:

- **Rust:** For management of legume crop rust, such as Asian soybean rust, on alternative hosts such as kudzu and other nongrass animal feeds listed above, apply AZterknot to forages (alternative host) growing in the vicinity of the soybean or other legume crop. Contact your local extension specialist or certified crop advisor for the latest recommendations.

(continued)

NONGRASS ANIMAL FEEDS (FORAGE, FODDER, STRAW AND HAY) CROP GROUP 18 (continued)

Specific Use Restrictions:

- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Location Restrictions: DO NOT** use on rangeland.
- **Maximum Single Application: DO NOT** apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per cutting.
- **Annual Maximum:**
 - **DO NOT** exceed 55.2 fl oz of AZterknot (0.75 lb azoxystrobin and 0.43 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 0.75 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 3 applications per calendar year at the high rate of 18.4 fl oz/A, or 4 applications per calendar year at 12.5 fl oz/A, or 7 applications per calendar year at the low rate of 7.4 fl oz/A.
- **Application Interval: DO NOT** make applications less than 14 days apart.
- **Pre-Harvest Interval (PHI): DO NOT** apply within 14 days of grazing or harvest for forage and hay (14-day PHI).
- **Resistance Management: DO NOT** make more than 3 consecutive foliar applications of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

OILSEED CROP GROUP 20

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; talowwood; tea oil plant; vernonia; including all cultivars, varieties and/or hybrids of these.

FOLIAR DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Alternaria Leaf Spot (<i>Alternaria</i> spp.) Downy Mildew (<i>Plasmopara halstedii</i> , <i>P. helianthi</i>) Pasmio (<i>Septoria linicola</i>) Sunflower Rust (<i>Puccinia helianthi</i>)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)

Broadcast Instructions:

- Apply 7.4 fl oz AZterknot per acre at early bud followed by an application of 16.7 fl oz AZterknot per acre approximately 45 days before harvest. A third application of 8.3 fl oz AZterknot per acre may be made 30 days before harvest. Follow resistance management guidelines for all applications.
- Apply with sufficient spray volume to ensure thorough coverage. For ground applications, use a minimum of 10 gallons spray volume per acre.
- May be applied by ground, air, or chemigation.

(continued)

OILSEED CROP GROUP 20 *(continued)*

Specific Use Restrictions:

- Not for use in Florida.
- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Maximum Single Application: DO NOT** apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 33.1 fl oz of AZterknot (0.45 lb azoxystrobin and 0.26 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 0.45 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 1 applications per calendar year at the high rate of 18.4 fl oz/A, or 4 applications per calendar year at the low rate of 7.4 fl oz/A.
- **Application Interval: DO NOT** make applications less than 14 days apart.
- **Pre-Harvest Interval (PHI): DO NOT** apply within 30 days of harvest (30-day PHI).
- **Resistance Management: DO NOT** make more than 2 consecutive foliar applications of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

PEANUTS

EARLY SEASON SOIL DISEASES	USE RATES
	fl oz product/ 1000 row feet (oz azoxystrobin/ 1000 row feet oz RSE/1000 row feet)
Aspergillus Crown Rot (<i>Aspergillus niger</i>) Pythium Damping Off (<i>Pythium</i> spp.) Suppression of: Stem Rot / White Mold (<i>Sclerotium rolfsii</i>)	0.5 - 0.9 (0.1 - 0.2 0.06 - 0.11)
At-Plant Instructions: <ul style="list-style-type: none"> • Apply in-furrow as a spray for early season protection against seed and seedling diseases. • See Instructions for At-Plant and Banded Applications for additional directions. 	
MID / LATE SEASON SOIL DISEASES	fl oz product/A (lb azoxystrobin/A lb RSE/A)
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>)	14.7 - 29.4 (0.20 - 0.40 0.11 - 0.23)
Suppression only: Pythium Pod Rot (<i>Pythium myriotylum</i>)	29.4 (0.40 0.23)

(continued)

PEANUTS *(continued)*

Broadcast Instructions:

- **Soilborne Diseases:** Make 2 foliar applications at 60 and 90 days after planting; if conditions favor disease development, these foliar applications can be made earlier. These 2 applications will provide activity against soilborne diseases and also foliar diseases for 10-14 days after each application. Use high rates under high disease pressure and wet conditions (rainfall / irrigation); the low rate may be used under low disease pressure and dry conditions. However, for suppression of Pythium always use the high rate of 29.4 fl oz AZterknot per acre.

FOLIAR DISEASES	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Early Leaf Spot ¹ (<i>Cercospora arachidicola</i>) Late Leaf Spot ¹ (<i>Cercosporidium personatum</i>) Rust (<i>Puccinia arachidis</i>) Web Blotch (<i>Phoma arachidicola</i>)	7.4 - 22.1 (0.10 - 0.30 0.06 - 0.17)

Broadcast Instructions:

- A lower rate may be applied on a 10- to 14-day spray schedule following resistance management recommendations.
- Apply with sufficient spray volume to ensure thorough coverage.
- May be applied by ground, air, or chemigation.

Specific Disease Instructions:

- **'Early and Late Leaf Spot:** Beyond AZterknot and other Group 11 fungicide applications for soilborne and foliar disease control, additional applications of non-Group 11 fungicides on a leaf spot application schedule are required to control leaf spot diseases throughout the season.

Specific Use Restrictions:

- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Maximum Single Application: DO NOT** apply more than 29.4 fl oz (0.40 lb azoxystrobin and 0.23 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 58.9 fl oz of AZterknot (0.8 lb azoxystrobin and 0.46 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 0.8 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 2 applications per calendar year at the high rate of 29.4 fl oz/A, or 2 applications per calendar year at 22.1 fl oz/A, or 4 applications per calendar year at 14.7 fl oz/A, or 7 applications per calendar year at the low rate of 7.4 fl oz/A.
- **Application Interval: DO NOT** make applications less than 10 days apart.
- **Pre-Harvest Interval (PHI): DO NOT** apply within 14 days of harvest (14-day PHI).
- **Resistance Management: DO NOT** make more than 2 consecutive foliar applications of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

PEPPERMINT TOPS AND SPEARMINT TOPS

Fresh Mint or for processing into oil.

SOIL DISEASES	USE RATES
	fl oz product/ 1000 row feet (oz azoxystrobin/ 1000 row feet oz RSE/1000 row feet)
Seedling Root Rot, Basal Stem Rot (<i>Rhizoctonia solani</i>)	0.5 - 0.9 (0.1 - 0.2 0.06 - 0.11)
At-Plant / Banded Instructions:	
<ul style="list-style-type: none"> Following best local practice, apply in-furrow as a spray or apply as a banded spray over the row targeting the plant bases and surrounding soil with thorough coverage of these areas important for good disease control. See Instructions for At-Plant and Banded Applications for additional directions. 	
FOLIAR DISEASES	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Leaf Spot (<i>Ramularia</i> spp.; <i>Alternaria</i> spp.; <i>Phoma</i> spp.) Powdery Mildew (<i>Erysiphe</i> spp.) Rust (<i>Puccinia menthae</i>)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)
Broadcast Instructions:	
<ul style="list-style-type: none"> Begin applications prior to disease onset and continue on a 7- to 10-day spray schedule throughout the season following resistance management guidelines. Apply with sufficient spray volume to ensure thorough coverage. May be applied by ground, air, or chemigation. 	
Specific Use Restrictions:	
<ul style="list-style-type: none"> Not for use in Florida. For outdoor use only. Application Method: Ground, air, or chemigation applications are permitted. Maximum Single Application: DO NOT apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per application. Annual Maximum: <ul style="list-style-type: none"> DO NOT exceed 55.2 fl oz of AZterknot (0.75 lb azoxystrobin and 0.43 lb RSE) per acre per calendar year. DO NOT exceed 0.75 lb azoxystrobin/A per calendar year from all azoxystrobin containing products. DO NOT apply more than 3 application per calendar year at the high rate of 18.4 fl oz/A, or 7 applications per calendar year at the low rate of 7.4 fl oz/A. Application Interval: DO NOT make applications less than 7 days apart. Pre-Harvest Interval (PHI): <ul style="list-style-type: none"> Processed Mint: DO NOT apply within 7 days of harvest (7-day PHI). Fresh: May be applied the day of harvest (0-day PHI). Resistance Management: DO NOT make more than 2 sequential foliar applications of any Group 11 fungicides before alternating to a fungicide with a different mode of action. 	

PISTACHIOS

FOLIAR / FRUIT DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Alternaria Late Blight (<i>Alternaria alternata</i>) Botryosphaeria Panicle and Shoot Blight (<i>Botryosphaeria dothidea</i>) Septoria Leaf Spot (<i>Septoria pistaciaarum</i>)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)
Broadcast Instructions:	
<ul style="list-style-type: none"> Begin applications prior to disease onset and continue on a 7- to 21-day spray schedule throughout the season following resistance management guidelines. Apply with sufficient spray volume to ensure thorough coverage. May be applied by ground, air, or chemigation. 	
Precautions:	
<ul style="list-style-type: none"> Some sensitive varieties may exhibit petal staining and/or necrosis after application at high application rates or high spray concentrations. To minimize petal staining and/or necrosis: <ul style="list-style-type: none"> If using an adjuvant, use adjuvants that improve coverage but DO NOT use adjuvants that increase penetration. Use adjuvants that are known through prior experience to not affect petal integrity when combined with AZterknot. Apply in a minimum of 70 gallons per acre of spray volume from bud through bloom. 	
Specific Use Restrictions:	
<ul style="list-style-type: none"> Not for use in Florida. Application Method: Ground, air, or chemigation applications are permitted. Maximum Single Application: DO NOT apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application. Annual Maximum: <ul style="list-style-type: none"> DO NOT exceed 110.3 fl oz of AZterknot (1.5 lb azoxystrobin and 0.86 lb RSE) per acre per calendar year. DO NOT exceed 1.5 lb azoxystrobin/A per calendar year from all azoxystrobin containing products. DO NOT apply more than 5 applications per calendar year at the high rate of 18.4 fl oz/A, or 14 applications per calendar year at the low rate of 7.4 fl oz/A. Application Interval: DO NOT make applications less than 7 days apart. Pre-Harvest Interval (PHI): DO NOT apply within 7 days of harvest (7-day PHI). Resistance Management: DO NOT make more than 2 consecutive foliar applications of any Group 11 fungicides before alternating to a fungicide with a different mode of action. 	

POTATOES

SOIL DISEASES	USE RATES
	fl oz product/ 1000 row feet (oz azoxystrobin/ 1000 row feet oz RSE/1000 row feet)
Black Dot (<i>Colletotrichum coccodes</i>) Black Scurf (<i>Rhizoctonia solani</i>) Silver Scurf (<i>Helminthosporium solani</i>)	0.5 - 0.9 (0.1 - 0.2 0.06 - 0.11)
At-Plant / Banded Instructions:	
<ul style="list-style-type: none"> Following best local practice, apply in-furrow as a spray or apply as a banded spray over the row targeting the plant bases and surrounding soil with thorough coverage of these areas important for good disease control. See Instructions for At-Plant and Banded Applications for additional directions. 	
FOLIAR DISEASES	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Black Dot (<i>Colletotrichum coccodes</i>) Early Blight ¹ (<i>Alternaria solani</i>) Late Blight ² (<i>Phytophthora infestans</i>) Powdery Mildew (<i>Erysiphe cichoracearum</i>)	7.4 - 24.3 (0.10 - 0.33 0.06 - 0.19)
Broadcast Instructions:	
<ul style="list-style-type: none"> Begin applications prior to disease onset and continue on a 7- to 14-day spray schedule throughout the season following resistance management guidelines. If disease pressure is high, use the higher rate and shorter spray interval. Adding a tank mix adjuvant, such as a non-ionic surfactant or a spreader-sticker may improve performance; follow instructions on the adjuvant label. Apply with sufficient spray volume to ensure thorough coverage. May be applied by ground, air, or chemigation. 	
Specific Disease Instructions:	
<ul style="list-style-type: none"> 1^{Early Blight:} If using a 7-day spray schedule, apply 7.4 fl oz AZterknot per acre. If using a 14-day spray schedule, apply 14.7 fl oz AZterknot per acre. 2^{Late Blight:} Apply 14.7 fl oz AZterknot per acre on a 7-day spray schedule. Make the first late blight application prior to disease onset following best local practices. If late blight is found in the field or if conditions are favorable for late blight development, immediately switch to a non-Group 11 fungicide on a 5-day spray schedule. 	

(continued)

POTATOES (continued)

Specific Use Restrictions:
<ul style="list-style-type: none"> Application Method: Ground, air, or chemigation applications are permitted. Maximum Single Application: DO NOT apply more than 24.3 fl oz (0.33 lb azoxystrobin and 0.19 lb RSE) per acre per application. Annual Maximum: <ul style="list-style-type: none"> DO NOT exceed 147.1 fl oz of AZterknot (2.0 lb azoxystrobin and 1.15 lb RSE) per acre per calendar year. DO NOT exceed 2.0 lb azoxystrobin/A per calendar year from all azoxystrobin containing products. DO NOT apply more than 6 applications per calendar year at the high rate of 24.3 fl oz/A, or 19 applications per calendar year at the low rate of 7.4 fl oz/A. Application Interval: DO NOT make applications less than 7 days apart. Pre-Harvest Interval (PHI): DO NOT apply within 14 days of harvest (14-day PHI). Resistance Management: DO NOT make more than 1 foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

RICE

DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Sheath/Stem Diseases Sheath Blight ¹ (<i>Rhizoctonia solani</i>)	7.4 - 22.1 (0.10 - 0.30 0.06 - 0.17)
Aggregate Sheath Spot ² (<i>Ceratobasidium/ Rhizoctonia oryzae-sativae</i>) Black Sheath Rot ² (<i>Gaeumannomyces graminis</i> var. <i>graminis</i>) Sheath Spot ² (<i>Rhizoctonia oryzae</i>) Stem Rot ² (<i>Magnaporthe salvinii/Sclerotium oryzae/Nakataea sigmoidea</i>)	11.0 - 22.1 (0.15 - 0.30 0.09 - 0.17)
Foliar Diseases ³ Brown Leaf Spot (<i>Cochliobolus miyabeanus</i>) Leaf Smut (<i>Entyloma oryzae</i>) Narrow Brown Leaf Spot (<i>Cercospora oryzae/Cercospora janseana</i>)	11.0 - 22.1 (0.15 - 0.30 0.09 - 0.17)
Panicle Diseases ³ Kernel Smut (<i>Tilletia barclayana/Neovossia barclayana</i>) Panicle Blast (<i>Pyricularia grisea</i>)	

(continued)

RICE *(continued)*

Broadcast Instructions:

- **'Sheath Blight:** Adjust rate depending on disease pressure and growth stage of the rice. Contact your local extension specialist or certified crop advisor for best local practice regarding rate and application timing.
- ***For other Sheath and Stem Diseases:** Begin applications when disease is first detected or when disease is no more than 4 inches above water line which would usually be 5-10 days after panicle differentiation. If disease pressure is high or conditions are favorable for disease development, a second application may be made.
- ***Foliar and Panicle Diseases:** Begin applications prior to disease onset. For Blast control, application must be preventative and made prior to conditions that are favorable for blast development. For Panicle Blast, make an application at mid-boot to boot-split prior to full head emergence, followed by a second application 7-14 days later when panicles are approximately 60-90% emerged from the boot.
- Apply with sufficient spray volume to ensure thorough coverage. For aerial applications, use 5 - 10 gallons spray volume per acre.
- May be applied by ground, air, or chemigation.

Specific Use Restrictions:

- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Location and Timing:**
 - **DO NOT** apply to rice fields that are used for aquaculture of fish and crustaceans.
 - Apply in a manner to prevent spray drift to non-target aquatic areas. Use extreme caution when making applications near non-target aquatic areas; **DO NOT** apply under weather conditions favoring spray drift onto non-target aquatic areas.
 - **DO NOT** allow release of irrigation or flood water within 14 days of the last application.
- **Maximum Single Application: DO NOT** apply more than 22.1 fl oz (0.30 lb azoxystrobin and 0.17 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 51.5 fl oz of AZterknot (0.7 lb azoxystrobin and 0.40 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 0.7 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 2 applications per calendar year at the high rate of 22.1 fl oz/A, or 4 applications per calendar year at 11.0 fl oz/A, or 6 applications per calendar year at the low rate of 7.4 fl oz/A.
- **Application Interval: DO NOT** make applications less than 7 days apart.
- **Pre-Harvest Interval (PHI): DO NOT** apply within 28 days of harvest (28-day PHI).
- **Resistance Management:**
 - **Panicle Blast Control on Continuous Rice Acreage:** If using AZterknot or another Group 11 fungicide for Panicle Blast control on continuous rice acreage (no rotation to other crops), make no more than two consecutive applications of Group 11 fungicides over multiple years before alternating to a fungicide with a different mode of action.
 - **DO NOT** make more than 2 foliar applications of any Group 11 fungicides per season.

ROOT VEGETABLES (EXCEPT SUGAR BEET) SUBGROUP 1B AND LEAVES OF ROOT VEGETABLES

Beet, garden; burdock, edible; carrot; celeriac (celery root); chervil, turnip-rooted; chicory; ginseng; horseradish; parsley, turnip-rooted; parsnip; radish; radish, oriental (daikon); rutabaga; salsify (oyster plant); salsify, black; salsify, Spanish; skirret; turnip. *(Includes leaves of these root crops).

(See CARROTS & SUGAR BEETS for additional directions)

SOIL DISEASES	USE RATES
	fl oz product/ 1000 row feet (or azoxystrobin/ 1000 row feet oz RSE/1000 row feet)
Circular Spot, Southern Blight (<i>Sclerotium rolfsii</i>) Pythium Root Rot (<i>Pythium</i> spp.) Rhizoctonia Stem Canker, Crown Rot (<i>Rhizoctonia solani</i>)	0.5 - 0.9 (0.1 - 0.2 0.06 - 0.11)
FOLIAR DISEASES	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Alternaria Leaf Spot (<i>Alternaria</i> spp., <i>A. alternata</i>) Ascochyta Leaf Spot (<i>Ascochyta cynarae</i>) Rust (<i>Puccinia</i> spp.; <i>Uromyces</i> spp.) White Rust (<i>Albugo tragopogonis</i>)	7.4 - 24.3 (0.10 - 0.33 0.06 - 0.19)
Cercospora Leaf Spot (<i>Cercospora</i> spp.) Powdery Mildew ¹ (<i>Erysiphe</i> spp.; <i>Leveillula</i> spp.)	11.0 - 18.4 (0.15 - 0.25 0.09 - 0.14)
Broadcast Instructions:	<ul style="list-style-type: none"> • Begin applications prior to disease onset and continue on a 7- to 14-day preventative spray schedule throughout the season following resistance management guidelines. • Apply with sufficient spray volume to ensure thorough coverage. • May be applied by ground, air, or chemigation.
Specific Disease Instructions:	<ul style="list-style-type: none"> • 'Powdery Mildew: Begin applications prior to disease onset and continue on a 5- to 7-day preventative spray schedule following resistance management guidelines.

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ROOT VEGETABLES (EXCEPT SUGAR BEET) SUBGROUP 1B AND LEAVES OF ROOT VEGETABLES *(continued)*

Specific Use Restrictions:

- Not for use in Florida.
- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Maximum Single Application: DO NOT** apply more than 24.3 fl oz (0.33 lb azoxystrobin and 0.19 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 147.1 fl oz of AZterknot (2.0 lb azoxystrobin and 1.15 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 2.0 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 6 applications per calendar year at the high rate of 24.3 fl oz/A, or 7 applications per calendar year at 18.4 fl oz/A, or 13 applications per calendar year at 11.0 fl oz/A, or 19 applications per calendar year at the low rate of 7.4 fl oz/A.
- **Application Interval: DO NOT** make applications less than 5 days apart.
- **Pre-Harvest Interval (PHI):** May be applied the day of harvest (0-day PHI).
- **Resistance Management: DO NOT** make more than 1 foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

SORGHUM

SOIL DISEASE	USE RATES
	fl oz product/ 1000 row feet (oz azoxystrobin/ 1000 row feet oz RSE/1000 row feet)
Damping Off (<i>Rhizoctonia solani</i> , <i>Pythium aphanidermatum</i>)	0.5 - 0.9 (0.1 - 0.2 0.06 - 0.11)
At-Plant / Banded Instructions:	
<ul style="list-style-type: none"> • Following best local practice, apply in-furrow as a spray or apply as a banded spray over the row targeting the plant bases and surrounding soil with thorough coverage of these areas important for good disease control. • See Instructions for At-Plant and Banded Applications for additional directions. 	
FOLIAR DISEASES	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Anthracnose (<i>Colletotrichum graminicola</i>) Gray Leaf Spot (<i>Cercospora sorghi</i>)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)

(continued)

SORGHUM *(continued)*

Broadcast Instructions:

- Begin applications prior to disease onset and continue throughout the season following resistance management guidelines. Contact your local extension specialist or certified crop advisor for the most current guidelines regarding fungicide use and application to control sorghum diseases in your region.
- Use higher rates when conditions are favorable for disease development, including plant canopies that are dense or susceptible varieties are being grown.
- Apply with sufficient spray volume to ensure thorough coverage.
- May be applied by ground, air, or chemigation.

Specific Use Restrictions:

- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Maximum Single Application: DO NOT** apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application.
- **Annual Maximum:**
 - **Grain and Stover:**
 - **DO NOT** exceed 55.2 fl oz of AZterknot (0.75 lb azoxystrobin and 0.43 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 0.75 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 3 applications per calendar year at the high rate of 18.4 fl oz/A, or 7 applications per calendar year at the low rate of 7.4 fl oz/A.
 - **Forage:**
 - **DO NOT** exceed 36.8 fl oz/A of AZterknot (0.5 lb azoxystrobin/A) per calendar year.
 - **DO NOT** exceed 0.5 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 2 applications per calendar year at the high rate of 18.4 fl oz/A, or 4 applications per calendar year at the low rate of 7.4 fl oz/A.
- **Application Interval: DO NOT** make applications less than 7 days apart.
- **Pre-Harvest Interval (PHI): DO NOT** apply within 14 days of harvest (14-day PHI).
- **Resistance Management: DO NOT** make more than 2 sequential foliar applications of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

SOYBEANS

(Including forage and hay)

(See LEGUME VEGETABLES (SUCCULENT OR DRIED) CROP GROUP 6 for EDAMAME directions)

SOIL DISEASES	USE RATES
	fl oz product/ 1000 row feet (oz azoxystrobin/ 1000 row feet oz RSE/1000 row feet)
Rhizoctonia Diseases (<i>Rhizoctonia solani</i>) Southern Blight (<i>Sclerotium rolfsii</i>)	0.5 - 0.9 (0.1 - 0.2 0.06 - 0.11)
At-Plant / Banded Instructions	
<ul style="list-style-type: none"> Following best local practice, apply in-furrow as a spray or as a banded spray over the row targeting the plant bases and surrounding soil with thorough coverage of these areas important for good disease control. See Instructions for At-Plant and Banded Applications for additional directions. 	
FOLIAR / FRUIT / STEM DISEASES	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Aerial Blight (<i>Rhizoctonia solani</i>) Alternaria Leaf Spot (<i>Alternaria</i> spp.) Anthracnose (<i>Colletotrichum truncatum</i>) Brown spot (<i>Septoria glycinis</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 ¹ (<i>Phakopsora</i> spp.)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)
Broadcast Instructions:	
<ul style="list-style-type: none"> Begin applications prior to disease onset and continue throughout the season following resistance management guidelines. Contact your local extension specialist or certified crop advisor for the most current guidelines regarding fungicide use and application to control soybean diseases in your region. Use higher rates when conditions are favorable for disease development, including plant canopies that are dense or susceptible varieties are being grown. Adding a tank mix adjuvant, such as a non-ionic surfactant or crop oil concentrate may improve performance when applying at lower use rates; follow instructions on the adjuvant label. Apply with sufficient spray volume to ensure thorough coverage. May be applied by ground, air, or chemigation. 	
Specific Disease Instructions:	
<ul style="list-style-type: none"> 1Rust: AZterknot may be used at 5.1 fl oz product per acre when tank mixed with a triazole registered for control of soybean rust. 	

(continued)

SOYBEANS (continued)

Specific Use Restrictions:
<ul style="list-style-type: none"> Application Method: Ground, air, or chemigation applications are permitted. Maximum Single Application: DO NOT apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb) per acre per application. Annual Maximum: <ul style="list-style-type: none"> DO NOT exceed 110.3 fl oz of AZterknot (1.5 lb azoxystrobin and 0.86 lb RSE) per acre per calendar year. DO NOT exceed 1.5 lb azoxystrobin/A per calendar year from all azoxystrobin containing products. Forage and Hay: DO NOT apply more than 1 application at 18.4 fl oz/A (0.25 lb azoxystrobin/A) per calendar year. DO NOT apply more than 5 applications per calendar year at the high rate of 18.4 fl oz/A, or 14 applications per calendar year at the low rate of 7.4 fl oz/A. Application Interval: DO NOT make applications less than 14 days apart. Pre-Harvest Interval (PHI): <ul style="list-style-type: none"> Beans: DO NOT apply within 14 days of harvest (14-day PHI). Forage and Hay: May be applied the day of harvest (0-day PHI). Resistance Management: DO NOT make more than 2 sequential foliar applications of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

STONE FRUITS CROP GROUP 12-12

Apricot⁴; apricot, Japanese; capulin; cherry, black; cherry, Nanking; cherry, sweet; cherry, tart; jujube, Chinese; neктarine; peach; plum; plum, American; plum, beach; plum, Canada; plum, cherry; plum, Chickasaw; plum, Damson; plum, Japanese; plum, Klamath; plum, prune; plumcot; sloe; including all cultivars, varieties and/or hybrids of these.

FRUIT / FOLIAR DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Brown Rot Blossom Blight ¹ , Brown Rot of Fruit ² (<i>Monilinia fructicola</i> , <i>M. laxa</i>)	14.7 - 18.4 (0.20 - 0.25 0.11 - 0.14)
Alternaria Spot and Fruit Rot (<i>Alternaria alternata</i>) Anthracnose (<i>Colletotrichum prunicola</i> , <i>C. gloeosporioides</i>) Leaf Rust (<i>Tranzschella discolor</i>) Powdery Mildew (<i>Sphaerotheca pannosa</i> , <i>Podospaera clandestina</i>) Scab ³ (<i>Cladosporium carpophilum</i>) Shot Hole (<i>Wilsonomyces carpophilus</i>)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)

Broadcast Instructions:

- Make the first application at disease onset as a protectant fungicide and continue on a 7- to 14-day spray schedule throughout the season following resistance management guidelines.
- Apply in a minimum of 35 gallons per acre of spray volume by ground or 3 gallons per acre by air to achieve thorough coverage.
- May be applied by ground, air, or chemigation.

(continued)

STONE FRUITS CROP GROUP 12-12

(continued)

<p>Specific Disease Instructions:</p> <ul style="list-style-type: none"> • 1Brown Rot Blossom Blight: Make the first application at early bloom and continue through petal fall. • 2Brown Rot of Fruit: AZterknot may be applied up to the day of harvest. • 3Scab: Make the first application at petal fall and continue on a 7- to 14-day spray schedule. On peaches only, 11.0 – 18.4 fl oz of AZterknot per acre may be applied for scab control.
<p>Precautions:</p> <ul style="list-style-type: none"> • 4Apricot: Some sensitive apricot varieties may exhibit fruit spotting as a result of application. Spray a test strip to confirm your variety is not susceptible to spotting before spraying. • Some sensitive varieties may exhibit petal staining and/or necrosis after application at high application rates or high spray concentrations. To minimize petal staining and/or necrosis: <ul style="list-style-type: none"> • If using an adjuvant, use adjuvants that improve coverage but DO NOT use adjuvants that increase penetration. • Use adjuvants that are known through prior experience to not affect petal integrity when combined with AZterknot. • Apply in a minimum of 70 gallons per acre of spray volume during cherry bloom (first white bud to full bloom) and from 10 – 100% bloom in other stone fruits.
<p>Specific Use Restrictions:</p> <ul style="list-style-type: none"> • Not for use in Florida. • Application Method: Ground, air, or chemigation applications are permitted. • Maximum Single Application: DO NOT apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application. • Annual Maximum: <ul style="list-style-type: none"> • DO NOT exceed 110.3 fl oz of AZterknot (1.5 lb azoxystrobin and 0.86 lb RSE) per acre per calendar year. • DO NOT exceed 1.5 lb azoxystrobin/A per calendar year from all azoxystrobin containing products. • DO NOT apply more than 5 applications per calendar year at the high rate of 18.4 fl oz/A, or 7 applications per calendar year at 14.7 fl oz/A, or 14 applications per calendar year at the low rate of 7.4 fl oz/A. • Application Interval: DO NOT make applications less than 7 days apart. • Pre-Harvest Interval (PHI): May be applied the day of harvest (0-day PHI). • Resistance Management: DO NOT make more than 2 sequential foliar applications of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

SUGAR BEETS

SOIL DISEASES	USE RATES
	fl oz product/ 1000 row feet (oz azoxystrobin/ 1000 row feet oz RSE/1000 row feet)
Circular Spot, Southern Blight (<i>Sclerotium rolfsii</i>) Pythium Root Rot (<i>Pythium aphanidermatum</i>) Rhizoctonia Stem Canker, Crown Rot (<i>Rhizoctonia solani</i>)	0.5 - 0.9 (0.1 - 0.2 0.06 - 0.11)
<p>At-Plant Instructions:</p> <ul style="list-style-type: none"> • Apply in-furrow in a minimum of 5 gallons per acre as a 3-7 inch spray over the seed row, or as a dribble in the furrow. • See Instructions for At-Plant and Banded Applications for additional directions. 	
<p>Banded Instructions:</p> <ul style="list-style-type: none"> • Apply as a 3-7 inch banded spray using 10 or more gallons per acre at the 2- to 8-leaf stage over the row targeting the plant bases and surrounding soil with thorough coverage of these areas important for good disease control. • See Instructions for At-Plant and Banded Applications for additional directions. 	
<p>Precautions:</p> <ul style="list-style-type: none"> • DO NOT apply in-furrow if an extended period of cool weather is expected following planting. • To reduce risk of phytotoxicity, DO NOT include a crop oil concentrate or methylated spray oil adjuvant in the tank mix. • Tank mixing with starter fertilizer and/or applying as an in-furrow dribble application may increase the risk of phytotoxicity. Consult your local extension service or certified crop advisor for recommendations on tank mixture with starter fertilizer in your area. 	
FOLIAR DISEASES	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Alternaria Leaf Spot (<i>Alternaria</i> spp., <i>A. Alternata</i>) Ascochyta Leaf Spot (<i>Ascochyta cynarae</i>) Rust (<i>Puccinia helianthi</i> , <i>Uromyces betae</i>) White Rust (<i>Albugo tragopogonis</i>)	7.4 - 24.3 (0.10 - 0.33 0.06 - 0.19)
Cercospora Leaf Spot (<i>Cercospora betae</i> , <i>C. pastinaceae</i>) Powdery Mildew ¹ (<i>Erysiphe polygoni</i> , <i>Levellula taurica</i>)	11.0 - 18.4 (0.15 - 0.25 0.09 - 0.14)
<p>Broadcast Instructions:</p> <ul style="list-style-type: none"> • Begin applications prior to disease onset and continue on a 7- to 14-day preventative spray schedule throughout the season following resistance management guidelines. • Apply with sufficient spray volume to ensure thorough coverage. • May be applied by ground, air, or chemigation. 	

(continued)

SUGAR BEETS *(continued)*

Specific Disease Instructions:	
<ul style="list-style-type: none"> • 'Powdery Mildew: Begin applications prior to disease onset and continue on a 5- to 7-day preventative spray schedule following resistance management guidelines. 	
Precautions:	
<ul style="list-style-type: none"> • To reduce risk of phytotoxicity, DO NOT include a crop oil concentrate or methylated spray oil adjuvant in the tank mix. 	
Specific Use Restrictions:	
<ul style="list-style-type: none"> • Application Method: Ground, air, or chemigation applications are permitted. • Maximum Single Application: DO NOT apply more than 24.3 fl oz (0.33 lb azoxystrobin and 0.19 lb RSE) per acre per application. • Annual Maximum: <ul style="list-style-type: none"> • DO NOT exceed 147.1 fl oz of AZterknot (2.0 lb azoxystrobin and 1.15 lb RSE) per acre per calendar year. • DO NOT exceed 2.0 lb azoxystrobin/A per calendar year from all azoxystrobin containing products. • DO NOT apply more than 6 applications per calendar year at the high rate of 24.3 fl oz/A, or 7 applications per calendar year at 18.4 fl oz/A, or 13 applications per calendar year at 11.0 fl oz/A, or 19 applications per calendar year at the low rate of 7.4 fl oz/A. • Application Interval: DO NOT make applications less than 5 days apart. • Pre-Harvest Interval (PHI): May be applied the day of harvest (0-day PHI). • Resistance Management: DO NOT make more than 1 foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action. 	

SUGARCANE

FOLIAR DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Brown Rust (<i>Puccinia melanocephala</i>)	11.0 - 14.7
Orange Rust (<i>Puccinia kuehni</i>)	(0.15 - 0.20 0.09 - 0.11)
Broadcast Instructions:	
<ul style="list-style-type: none"> • Begin applications prior to disease onset and continue on a 14- to 28-day spray schedule throughout the season following resistance management guidelines. • Scout fields and if rust is discovered begin applications immediately. • Apply with sufficient spray volume to ensure thorough coverage and canopy penetration. For aerial applications, use a minimum of 5 gallons spray volume per acre. • May be applied by ground, air, or chemigation. 	

(continued)

SUGARCANE *(continued)*

Specific Use Restrictions:	
<ul style="list-style-type: none"> • Application Method: Ground, air, or chemigation applications are permitted. • Maximum Single Application: DO NOT apply more than 14.7 fl oz (0.20 lb azoxystrobin and 0.11 lb RSE) per acre per application. • Annual Maximum: <ul style="list-style-type: none"> • DO NOT exceed 58.9 fl oz of AZterknot (0.8 lb azoxystrobin and 0.46 lb RSE) per acre per calendar year. • DO NOT exceed 0.8 lb azoxystrobin/A per calendar year from all azoxystrobin containing products. • DO NOT apply more than 4 applications per calendar year at the high rate of 14.7 fl oz/A, or 5 applications per calendar year at the low rate of 11.0 fl oz/A. • Application Interval: DO NOT make applications less than 14 days apart. • Pre-Harvest Interval (PHI): DO NOT apply within 30 days of harvest (30-day PHI). • Resistance Management: <ul style="list-style-type: none"> • DO NOT make more than 2 sequential foliar applications of any Group 11 fungicides before alternating to a fungicide with a different mode of action. • DO NOT make more than 4 foliar applications of any Group 11 fungicides in any calendar year. 	

TOBACCO

FOLIAR DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Blue Mold ¹ (<i>Peronospora tabacina</i>)	7.4 - 14.7
Frogeye Leaf Spot (<i>Cercospora nicotianae</i>)	(0.10 - 0.20 0.06 - 0.11)
Target Spot (<i>Rhizoctonia solani</i>)	
Broadcast Instructions:	
<ul style="list-style-type: none"> • Begin applications prior to disease onset or when blue mold is first reported in the area and continue on a 7- to 14-day preventative spray schedule using the shorter interval when conditions are favorable for disease development following the resistance management recommendations. • Apply with sufficient spray volume to ensure thorough coverage and canopy penetration. For aerial applications, use 10 - 15 gallons spray volume per acre. • May be applied by ground, air, or chemigation. 	
Precautions:	
<ul style="list-style-type: none"> • Tank-mixing with other adjuvants, insecticides, and other fungicides, especially solvent-based products, may increase the risk of phytotoxicity and must be tested for crop safety before using. • Azoxystrobin application may enhance weather flecking on certain tobacco cultivars. 	
Specific Disease Instructions:	
<ul style="list-style-type: none"> • ¹If Blue Mold is discovered in the field, use ACROBAT MZ® for the first application. 	

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TOBACCO *(continued)*

Specific Use Restrictions:

- For outdoor use only.
- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Maximum Single Application:**
 - **DO NOT** apply more than 14.7 fl oz (0.20 lb azoxystrobin and 0.11 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 38.3 fl oz of AZterknot (0.52 lb azoxystrobin and 0.30 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 0.52 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 2 applications per calendar year at the high rate of 14.7 fl oz/A, or 5 applications per calendar year at the low rate of 7.4 fl oz/A.
- **Application Interval:** **DO NOT** make applications less than 7 days apart.
- **Pre-Harvest Interval (PHI):** **DO NOT** apply within 21 days of harvest (21-day PHI).
- **Resistance Management:** **DO NOT** make more than 1 foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

TOMATO SUBGROUP 8-10A

Bush tomato; cocona; currant tomato; garden huckleberry; goji berry; groundcherry; naranjilla; sunberry; tomatillo; tomato; tree tomato; including all cultivars, varieties and/or hybrids of these.

FOLIAR / FRUIT DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Anthraxnose (<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 cassiicola</i>)	5.9 - 7.4 (0.08 - 0.10 0.05 - 0.06)
Late Blight ¹ (<i>Phytophthora infestations</i>)	7.4 (0.10 0.06)

Broadcast Instructions:

- Begin applications prior to disease onset and continue on a 7- to 21-day preventative spray schedule throughout the season following resistance management guidelines.
- Apply with sufficient spray volume to ensure thorough coverage.
- May be applied by ground, air, or chemigation.

(continued)

TOMATO SUBGROUP 8-10A *(continued)*

Precautions:

- Tank-mixing with adjuvants, insecticides, and other fungicides must be tested for crop safety before using, especially under high temperatures. **DO NOT** use high rates (>0.125% v/v) of silicone-based, crop-oil containing, and petroleum-oil-containing adjuvants.
- **For fresh market tomatoes, DO NOT** apply adjuvants or tank-mix AZterknot with EC-type formulations. Consult your local extension specialist or certified crop advisor for more information concerning additives and adjuvants.

Specific Disease Instructions:

- **'Late Blight:** Begin applications prior to disease onset and continue on a 5- to 7-day preventative spray schedule following resistance management guidelines.

Specific Use Restrictions:

- Not for use in Florida.
- For outdoor use only.
- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Application Timing:** **DO NOT** apply until 35 days after seeding or until 21 days after transplanting plugs to larger containers for tomatoes grown in greenhouse for transplant.
- **Maximum Single Application:** **DO NOT** apply more than 7.4 fl oz (0.10 lb azoxystrobin and 0.06 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 44.1 fl oz of AZterknot (0.6 lb azoxystrobin and 0.34 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 0.6 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 5 applications per calendar year at the high rate of 7.4 fl oz/A, or 7 applications per calendar year at the low rate of 5.9 fl oz/A.
- **Application Interval:** **DO NOT** make applications less than 5 days apart.
- **Pre-Harvest Interval (PHI):** May be applied the day of harvest (0-day PHI).
- **Resistance Management:** **DO NOT** make more than 1 foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

TREE NUTS CROP GROUP 14-12

African nut-tree; beech nut; Brazil nut; Brazilian pine; bunya; bur oak; butternut; cajou nut; candlenut; cashew; chestnut; chinquapin; coconut; coquito nut; dika nut; ginkgo; Guiana chestnut; hazelnut (filbert); heartnut; hickory nut; Japanese horse-chestnut; macadamia nut; mongongo nut; monkey-pot; monkey puzzle nut; okari nut; pachira nut; peach palm nut; pecan; pequi; pili nut; pine nut; sapucaia nut; tropical almond; walnut, black; walnut, English; yellowhorn; including all cultivars, varieties and/or hybrids of these.

(See ALMONDS and PISTACHIOS for additional directions)

FOLIAR / FRUIT DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Alternaria Leaf and Fruit Spot (<i>Alternaria alternata</i>) Anthracnose (<i>Colletotrichum acutatum</i> , <i>Glomerella cingulata</i>) Blossom Blight ¹ (<i>Monilinia laxa</i> , <i>M. fructicola</i>) Eastern Filbert Blight (<i>Anisogramma anomala</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>)	7.4 - 14.7 (0.10 - 0.20 0.06 - 0.11)
Broadcast Instructions:	
<ul style="list-style-type: none"> Begin applications prior to disease onset and continue on a 7- to 21-day spray schedule throughout the season following resistance management guidelines. Apply with sufficient spray volume to ensure thorough coverage. May be applied by ground, air, or chemigation. 	
Specific Disease Instructions:	
<ul style="list-style-type: none"> 'Blossom Blight: Begin applications at early bloom and continue through petal fall following resistance management guidelines. 	
Precautions:	
<ul style="list-style-type: none"> Some sensitive varieties may exhibit petal staining and/or necrosis after application at high application rates or high spray concentrations. To minimize petal staining and/or necrosis: <ul style="list-style-type: none"> If using an adjuvant, use adjuvants that improve coverage but DO NOT use adjuvants that increase penetration. Use adjuvants that are known through prior experience to not affect petal integrity when combined with AZterknot. Apply in a minimum of 70 gallons per acre of spray volume from bud through bloom. 	

(continued)

TREE NUTS CROP GROUP 14-12

(continued)

Specific Use Restrictions:

- Not for use in Florida.
- Application Method:** Ground, air, or chemigation applications are permitted.
- Maximum Single Application:** **DO NOT** apply more than 14.7 fl oz (0.20 lb azoxystrobin and 0.11 lb RSE) per acre per application.
- Annual Maximum:**
 - DO NOT** exceed 88.3 fl oz of AZterknot (1.2 lb azoxystrobin and 0.69 lb RSE) per acre per calendar year.
 - DO NOT** exceed 1.2 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - DO NOT** apply more than 6 applications per calendar year at the high rate of 14.7 fl oz/A, or 11 applications per calendar year at the low rate of 7.4 fl oz/A.
- Application Interval:** **DO NOT** make applications less than 7 days apart.
- Pre-Harvest Interval (PHI):** **DO NOT** apply within 45 days of harvest (45-day PHI).
- Resistance Management:** **DO NOT** make more than 2 sequential foliar applications of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

TROPICAL FRUIT

Acerola; atemoya; avocado; biriba; canistel; cherimoya; custard apple; dragon fruit; feijoa; guava; llama; jaboticaba; jackfruit, longan, loquat, lychee, mango, papaya, passionfruit, pawpaw, persimmon, pulasan, rambutan, sapodilla, sapote, black; sapote, mamey; sapote, white; soursoop, Spanish lime; star apple, starfruit, sugar apple, tamarind; including all cultivars, varieties, and/or hybrids of these.

SOIL DISEASES	USE RATES
	fl oz product/ 1000 row feet (oz azoxystrobin/ 1000 row feet oz RSE/1000 row feet)
Seedling Root Rot, Basal Stem Rot (<i>Rhizoctonia solani</i>)	0.5 - 0.9 (0.1 - 0.2 0.06 - 0.11)
At-Plant / Banded Instructions:	
<ul style="list-style-type: none"> Apply as a banded spray targeting the plant bases and surrounding soil. Thorough coverage of these areas is important for good disease control. See Instructions for At-Plant and Banded Applications for additional directions. 	
FOLIAR / FRUIT DISEASES	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Anthracnose (<i>Colletotrichum</i> spp.) Cercospora Leaf Spot (<i>Cercospora</i> spp.) Powdery Mildew (<i>Erysiphe</i> spp.) Rust (<i>Puccinia</i> spp.)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)

(continued)

TROPICAL FRUIT (continued)

Broadcast Instructions:

- Begin applications prior to disease onset and continue on a 10- to 14-day spray schedule throughout the season following resistance management guidelines.
- Apply with sufficient spray volume to ensure thorough coverage.
- May be applied by ground, air, or chemigation.

Specific Use Restrictions:

- Not for use in Florida.
- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Maximum Single Application: DO NOT** apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 110.3 fl oz of AZterknot (1.5 lb azoxystrobin and 0.86 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 1.5 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 5 applications per calendar year at the high rate of 18.4 fl oz/A, or 14 applications per calendar year at the low rate of 7.4 fl oz/A.
- **Application Interval: DO NOT** make applications less than 10 days apart.
- **Pre-Harvest Interval (PHI):** May be applied the day of harvest (0-day PHI).
- **Resistance Management: DO NOT** make more than 2 sequential foliar applications of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

TUBEROUS AND CORM VEGETABLES 1C AND LEAVES OF TUBER VEGETABLES

Arracacha; arrowroot; artichoke, Chinese; artichoke, Jerusalem; canna, edible (Queensland arrowroot); cassava, bitter and sweet¹; chayote (root); chufa; dasheen (taro)¹; ginger; leren; potato; sweet potato¹; taniar¹; turmeric; yam bean; yam, true¹. (Includes leaves of these tuber crops)

(See POTATOES for additional directions)

SOIL DISEASES	USE RATES
	fl oz product/ 1000 row feet (oz azoxystrobin/ 1000 row feet oz RSE/1000 row feet)
Circular Spot, Southern Blight (<i>Sclerotium rolfsii</i>) Pythium Root Rot (<i>Pythium</i> spp.) Rhizoctonia Stem Canker, Crown Rot (<i>Rhizoctonia solani</i>)	0.5 - 0.9 (0.1 - 0.2 0.06 - 0.11)

(continued)

TUBEROUS AND CORM VEGETABLES 1C AND LEAVES OF TUBER VEGETABLES

(continued)

At-Plant / Banded Instructions:

- Following best local practice, apply in-furrow as a spray or apply as a banded spray over the row targeting the plant bases and surrounding soil with thorough coverage of these areas important for good disease control.
- See **Instructions for At-Plant and Banded Applications** for additional directions.

FOLIAR DISEASES	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Alternaria Leaf Spot (<i>Alternaria</i> spp., <i>A. alternata</i>) Ascochyta Leaf Spot (<i>Ascochyta cynarae</i>) Rust (<i>Puccinia</i> spp.; <i>Uromyces</i> spp.) White Rust (<i>Albugo tragopogonis</i>)	7.4 - 24.3 (0.10 - 0.33 0.06 - 0.19)
Cercospora Leaf Spot (<i>Cercospora</i> spp.) Powdery Mildew ² (<i>Erysiphe</i> spp.; <i>Leveillula</i> spp.)	11.0 - 18.4 (0.15 - 0.25 0.09 - 0.14)

Broadcast Instructions:

- Begin applications prior to disease onset and continue on a 7- to 14-day preventative spray schedule throughout the season following resistance management guidelines.
- Apply with sufficient spray volume to ensure thorough coverage.
- May be applied by ground, air, or chemigation.

Specific Disease Instructions:

- **Powdery Mildew:** Begin applications prior to disease onset and continue on a 5- to 7-day preventative spray schedule following resistance management guidelines.

Specific Use Restrictions:

- Not for use in Florida.
- **Application Method:** Ground, air, or chemigation applications are permitted.
- **Maximum Single Application: DO NOT** apply more than 24.3 fl oz (0.33 lb azoxystrobin and 0.19 lb RSE) per acre per application.
- **Annual Maximum:**
 - **DO NOT** exceed 147.1 fl oz of AZterknot (2.0 lb azoxystrobin and 1.15 lb RSE) per acre per calendar year.
 - **DO NOT** exceed 2.0 lb azoxystrobin/A per calendar year from all azoxystrobin containing products.
 - **DO NOT** apply more than 6 applications per calendar year at the high rate of 24.3 fl oz/A, or 7 applications per calendar year at 18.4 fl oz/A, or 13 applications per calendar year at 11.0 fl oz/A, or 19 applications per calendar year at the low rate of 7.4 fl oz/A.
- **Application Interval: DO NOT** make applications less than 5 days apart.
- **Pre-Harvest Interval (PHI):**
 - **Tuberous and Corm Vegetables: DO NOT** apply within 14 days of harvest (14-day PHI).
 - **Leaves of Tuber Vegetables:** May be applied the day of harvest (0-day PHI).
- **Resistance Management: DO NOT** make more than 1 foliar application of any Group 11 fungicides before alternating to a fungicide with a different mode of action.

WATERCRESS

FOLIAR DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Cercospora Leaf Spot (<i>Cercospora</i> spp.)	7.4 - 18.4 (0.10 - 0.25 0.06 - 0.14)
Broadcast Instructions: <ul style="list-style-type: none"> • Begin applications prior to disease onset and continue on a 7- to 10-day spray schedule throughout the season following resistance management guidelines. • Apply with sufficient spray volume to ensure thorough coverage. • May be applied by ground, air, or chemigation. 	
Specific Use Restrictions: <ul style="list-style-type: none"> • Not for use in Florida. • Application Method: Ground, air, or chemigation applications are permitted. • Maximum Single Application: DO NOT apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application. • Annual Maximum: <ul style="list-style-type: none"> • DO NOT exceed 110.3 fl oz of AZterknot (1.5 lb azoxystrobin and 0.86 lb RSE) per acre per calendar year. • DO NOT exceed 1.5 lb azoxystrobin/A per calendar year from all azoxystrobin containing products. • DO NOT apply more than 5 applications per calendar year at the high rate of 18.4 fl oz/A, or 14 applications per calendar year at the low rate of 7.4 fl oz/A. • Application Interval: DO NOT make applications less than 7 days apart. • Pre-Harvest Interval (PHI): DO NOT apply within 7 days of harvest (7-day PHI). • Resistance Management: DO NOT make more than 2 sequential foliar applications of any Group 11 fungicides before alternating to a fungicide with a different mode of action. 	

WILD RICE

FOLIAR / STEM DISEASES	USE RATES
	fl oz product/A (lb azoxystrobin/A lb RSE/A)
Brown Spot (<i>Bipolaris</i> spp. (<i>Helminthosporium</i> spp.)) Stem Rot (<i>Nakataea sigmoidea</i>)	14.7 - 18.4 (0.20 - 0.25 0.11 - 0.14)
Broadcast Instructions: <ul style="list-style-type: none"> • Begin applications prior to disease onset during tillering, boot or early heading following resistance management guidelines. • Make a second application if disease pressure is heavy and conditions are favorable for disease development. The second application may be sequential. • Apply with sufficient spray volume to ensure thorough coverage. For aerial applications, use 5 – 10 gallons spray volume per acre. • May be applied by ground, air, or chemigation. 	
Specific Use Restrictions: <ul style="list-style-type: none"> • Not for use in Florida. • Application Method: Ground, air, or chemigation applications are permitted. • Location and Timing Restrictions: <ul style="list-style-type: none"> • DO NOT apply to wild rice fields that are used for aquaculture of fish and crustaceans. • Apply in a manner to prevent spray drift to non-target aquatic areas. Use extreme caution when making applications near non-target aquatic areas; DO NOT apply under weather conditions favoring spray drift onto non-target aquatic areas. • DO NOT allow release of irrigation or flood water within 14 days of the last application. • Maximum Single Application: DO NOT apply more than 18.4 fl oz (0.25 lb azoxystrobin and 0.14 lb RSE) per acre per application. • Annual Maximum: <ul style="list-style-type: none"> • DO NOT exceed 51.5 fl oz of AZterknot (0.70 lb azoxystrobin and 0.40 lb RSE) per acre per calendar year. • DO NOT exceed 0.70 lb azoxystrobin/A per calendar year from all azoxystrobin containing products. • DO NOT apply more than 2 applications per calendar year at the high rate of 18.4 fl oz/A, or 3 applications per calendar year at the low rate of 14.7 fl oz/A. • Application Interval: DO NOT make applications less than 7 days apart. • Pre-Harvest Interval (PHI): DO NOT apply within 28 days of harvest (28-day PHI). • Resistance Management: <ul style="list-style-type: none"> • DO NOT make more than 2 sequential foliar applications of any Group 11 fungicides before alternating to a fungicide with a different mode of action. • DO NOT make more than 2 foliar applications of any Group 11 fungicides per season. 	

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage and disposal.

PESTICIDE STORAGE

Store in original containers only. Keep container closed when not in use. Store in a cool, dry place, and **DO NOT** expose to heat. **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.

CONTAINER HANDLING:

Container Handling less than or equal to 5 gallons - Non-refillable container: **DO NOT** reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or 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 and 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 IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.

OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT.

Any warranties, express or implied, having been made are inapplicable if this product has been used contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) seller or Vive Crop Protection, and buyer assumes the risk of any such use.

To the extent consistent with applicable law, Vive Crop Protection or seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF VIVE CROP PROTECTION AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF VIVE CROP PROTECTION OR SELLER, THE REPLACEMENT OF THE PRODUCT.

This Conditions of Sale and Limitation of Warranty and Liability may not be amended by any oral or written agreement except as signed by an authorized representative of Vive Crop Protection.

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ACROBAT MZ® is a registered trademark of BASF Corporation.

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IMPORTANT INFORMATION READ BEFORE USING PRODUCT

Conditions of Sale and Limitation of Warranty and Liability:

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather, or crop conditions beyond the control of Vive Crop Protection or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Vive Crop Protection and Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, VIVE CROP PROTECTION MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS

AZOXYSTROBIN	GROUP 11	FUNGICIDE
EXTRACT OF <i>REYNOUTRIA SACHALINENSIS</i>	GROUP P5	FUNGICIDE

AZTERKNOT™ Fungicide

Active Ingredient:	By Wt
Azoxystrobin*	18.4 %
Extract of <i>Reynoutria sachalinensis</i>	10.2 %
Other Ingredients:	71.4 %
TOTAL	100.0 %

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

Contains 1.74 lb of azoxystrobin & 1.0 lb of Extract of *Reynoutria sachalinensis* (RSE) per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION

This label must be in the possession of the user at the time of application.

See inside booklet for additional precautionary information and directions for use.

EPA Reg. No. 89118-14

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 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 15-20 minutes. • 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 by mouth-to-mouth if possible. • 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 15-20 minutes. • Remove contact lenses if present, after the first 5 minutes, then continue rinsing. • Call a poison control center or doctor for treatment advice.
EMERGENCY INFORMATION
Have the product container or label with you when calling a poison control center or doctor or going for treatment. In the event of a medical or chemical emergency contact Chemtel Inc. in North America at 1-800-255-3924 or worldwide international at +1-813-248-0585.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Caution. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Avoid breathing vapor or spray mist.

Environmental Hazards

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

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 water adjacent to treated areas. **DO NOT** contaminate water when disposing of equipment wash water or rinsate.

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

Manufactured by:
Vive Crop Protection Inc.
500 Westover Dr. #10198
Sanford, NC 27330
1-888-760-0187



Net Contents: 2½ Gallons