SUPPLEMENTAL LABELING

STATE OF HAWAII
Department of Agriculture
ACCEPTED
LICENSE NO.
9226.408

Syngenta Crop Protection, LLC
P. O. Box 18300
Greensboro, North Carolina 27419-8300
SCP 1098B-S17 0216

GROUP	11	FUNGICIDE

Quadris® Flowable Fungicide

Broad spectrum fungicide for control of plant diseases

This supplemental label expires on February 1, 2019 and must not be used or distributed after this date.

Active Ingredient:

Azoxystrobin: methyl (*E*)-2-{2-[6-(2-cyanophenoxy) pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate*	22.9%
Other Ingredients:	77.1%
Total:	100.0%

Contains 2.08 lb of active ingredient per gallon
*IUPAC

KEEP OUT OF REACH OF CHILDREN.

CAUTION

EPA Reg. 100-1098

All applicable directions, restrictions and precautions on the EPA-registered label are to be followed. Before using Quadris Flowable Fungicide as permitted according to this Supplemental Labeling, read and follow all applicable directions, restrictions, and precautions on the EPA-registered label on or attached to the pesticide product container. This Supplemental Labeling contains revised use instructions and/or restrictions that may be different from those that appear on the container label. This Supplemental Labeling must be in the possession of the user at the time of pesticide application. It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

syngenta

DIRECTIONS FOR USE

Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Quinoa	Leaf Spot *(Ascochyta hyalospora)* Stalk Rot *(Phoma exigua)*	12 (0.20)	Apply prior to disease development. An adjuvant may be added at recommended rates.

Application Directions: Quadris can be applied by either ground, chemigation, or aerial application.

Specific Use Restrictions:

1) Do not apply more than 0.40 lb ai/A/season of azoxystrobin-containing products.
2) Do not apply within 7 days (7-day PHI) for forage and hay.
3) Do not apply within 14 days of grazing (14-day PHI).
4) Do not apply within 30 days of harvest (30-day PHI).

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SCP 1098B-S17 0216

Quadris Flowable Fungicide 1098B-S17 0216 – bb – 4-6-16

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PULL HERE TO OPEN

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CAUTION

See additional precautionary statements and directions for use inside booklet.

Reformulation is prohibited. See individual container labels for repackaging limitations.

EPA Reg. No. 100-1098
EPA Est. 100-NE-001

SCP 1098B-L2R 0216
4063245

1 gallon
Net Contents

®

FIRST AID	
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.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
HOTLINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call **1-800-888-8372**	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

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

Personal Protective Equipment (PPE)

Some materials that are chemically resistant to this product are listed below.

Applicators and other handlers must wear:

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

User Safety Requirements

Follow 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.

continued…

PRECAUTIONARY STATEMENTS *(continued)*

Engineering Controls

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

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

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Wash thoroughly with soap and water after handling.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

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

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or regional office of the EPA.

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 washwater or rinsate.

Ground Water Advisory

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

Surface Water Advisory

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

Notify State and/or Federal authorities and Syngenta immediately if you observe any adverse environmental effects due to use of this 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, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA 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 SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

DIRECTIONS FOR USE

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

Use of Quadris through airblast application equipment on grapes is prohibited in the following townships and boroughs of Erie County, Pennsylvania:

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

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

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is:

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

PRODUCT USE PRECAUTIONS

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

ATTENTION

Quadris is extremely phytotoxic to certain apple varieties.

AVOID SPRAY DRIFT. Extreme care must be used to prevent injury to apple trees (and apple fruit).

DO NOT spray Quadris where spray drift may reach apple trees.

DO NOT spray when conditions favor drift beyond area intended for application. Conditions which may contribute to drift include thermal inversion, wind speed and direction, sprayer nozzle/pressure combinations, spray droplet size, etc. Contact your State extension agent for spray drift prevention guidelines in your area.

DO NOT use spray equipment which has been previously used to apply Quadris to spray apple trees. Even trace amounts can cause unacceptable phytotoxicity to certain apple and crabapple varieties.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

PRODUCT INFORMATION

Quadris is a broad spectrum, preventative fungicide with systemic and curative properties recommended for the control of many important plant diseases. Quadris Flowable Fungicide is a member of Syngenta's Plant Performance™ product line and may also improve the yield and/or quality of the crop. These additional benefits are due to positive effects on plant physiology. The effects may vary according to factors such as the crop, crop hybrid, or environment. Quadris may be applied as a foliar spray in alternating spray programs or in tank mixes with other registered crop protection products. All applications must be made according to the use directions that follow.

Restrictions for Resistance Management Purposes

Greenhouse Use: To help manage fungicide resistance, do not use for commercial transplant production in the greenhouse except where specified on the label.

PRODUCT USE INSTRUCTIONS

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

Adjuvants: When an adjuvant is to be used with this product, the use of an adjuvant that meets the standards of the Chemical Producers and Distributors Association (CPDA) adjuvant certification is recommended.

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

INTEGRATED PEST (DISEASE) MANAGEMENT

Quadris should be integrated into an overall disease and pest management strategy whenever the use of a fungicide is required. Cultural practices known to reduce disease development should be followed. This should include selection of varieties with disease tolerance, removal of plant debris in which inoculum overwinters, and proper timing and placement of irrigation. Consult your local agricultural authorities for additional IPM strategies established for your area. Quadris may be used in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.

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

RESISTANCE MANAGEMENT

GROUP	**11**	FUNGICIDE

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

Follow the crop specific resistance management recommendations in the directions for use.

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

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

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

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

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

Rotational Crop Restrictions

The following crops may be planted at the specified interval following application of Quadris fungicide.

Crop Rotational Interval

	Plant back interval
Buckwheat and millet	12 months
All other crops with Azoxystrobin registered uses	0 days

SOILBORNE/SEEDLING DISEASE CONTROL

For those crops that have specific use directions for soilborne disease control:

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

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

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

BANDED

- Apply Quadris prior to infection as a directed spray to the soil, using single or multiple nozzles, adjusted to provide thorough coverage of the lower stems and the soil surface surrounding the plants.
- Band width should be limited to 7 inches or less.
- Apply Quadris at a rate of 0.40-0.80 fl oz product (0.10-0.20 oz ai)/1000 row feet. For banded applications on 22-inch rows, the maximum application rate is 0.70 fl oz/1000 row feet.

- These applications come into contact with the foliage and are counted as foliar applications when considering resistance management.
- They may be applied during cultivation or hilling operations to provide soil incorporation.

IN-FURROW

- Apply Quadris as an in-furrow spray in 3-15 gallons of water at planting.
- Mount the spray nozzle so the spray is directed into the furrow just before the seeds are covered.
- Use the higher rate when the weather conditions are expected to be conducive for disease development, if the field has a history of Pythium problems, or if minimum/low till programs are in place.

IN-FURROW APPLICATION RATES

Rate per 1000 row-feet		Row Spacing (inches)										
fl oz product	oz ai	22	30	32	34	36	38	40	48	60	72	80
		Product per Acre (fl oz)										
0.40	0.10	9.5	7.0	6.5	6.1	5.8	5.5	5.2	4.4	3.5	2.9	2.6
0.60	0.15	14.3	10.5	9.8	9.2	8.7	8.3	7.8	6.5	5.2	4.4	3.9
0.80	0.20		13.9	13.1	12.3	11.6	11.0	10.5	8.7	7.0	5.8	5.2
1.00	0.25					14.5	13.8	13.1	10.9	8.7	7.3	6.5
1.20	0.30								13.1	10.5	8.7	7.8
1.38	0.36								15.0	12.0	10.0	9.0
1.50	0.40									13.1	10.9	9.8
1.72	0.45									15.0	12.5	11.2
2.00	0.50										14.5	13.1
2.07	0.54										15.0	13.5
2.30	0.60											15.0

Do not apply more than 15 fl oz/A.

Row spacing (inches)	Row-Feet Per Acre
22	23,760
30	17,424
32	16,335
34	15,374
36	14,520
38	13,756
40	13,068
48	10,890
60	8,712
72	7,260
80	6,534

DRIP

Refer to the **Application Instructions Through Irrigation System** section.

SPRAY DRIFT MANAGEMENT

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

ATTENTION

Quadris is extremely phytotoxic to certain apple varieties.

AVOID SPRAY DRIFT. Extreme care must be used to prevent injury to apple trees (and apple fruit).

DO NOT spray Quadris where spray drift may reach apple trees.

DO NOT spray when conditions favor drift beyond area intended for application. Conditions which may contribute to drift include thermal inversion, wind speed and direction, sprayer nozzle/pressure combinations, spray droplet size, etc. Contact your State extension agent for spray drift prevention guidelines in your area.

DO NOT use spray equipment which has been previously used to apply Quadris to spray apple trees. Even trace amounts can cause unacceptable phytotoxicity to certain apple and crabapple varieties.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

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

MIXING AND APPLICATION METHODS

Spray Equipment

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

Nozzles

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

Pump

- Use a pump with capacity to:
  (1) Maintain 35-40 psi at nozzles
  (2) Provide sufficient agitation in tank to keep mixture in suspension - this requires recirculation of 10% of tank volume per minute.

- Use a jet agitator or liquid sparge tube for agitation.
- Do not air sparge.

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

Mixing Instructions

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

Quadris Alone (No Tank Mix)

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

Quadris + Tank Mixtures: Quadris is usually compatible with all tank-mix partners listed on this label. To determine the physical compatibility of Quadris with other products, use a jar test. Using a quart jar, add the proportionate amounts of the products to 1 qt of water. Add wettable powders and water dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

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

Mixing in the Spray Tank

- Add 1/2-2/3 of the required amount of water to the spray or mixing tank.
- With the agitator running, add the tank-mix partner(s) into the tank in the same order as described above.

- Allow the material to completely dissolve and disperse into the mix water. Continue agitation while adding the remainder of the water and Quadris to the spray tank.
- Allow Quadris to completely disperse.
- Spray the mixture with the agitator running.

APPLICATION INSTRUCTIONS THROUGH IRRIGATION SYSTEMS (CHEMIGATION)

Application Through Irrigation Systems (Chemigation)

- Use only on crops for which chemigation is specified on this label.
- Apply this product only through center pivot, solid set, hand move, or moving wheel irrigation systems. Do not apply this product through any other type of irrigation system.
- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- Apply in 0.1-0.25 inches/acre. Excessive water may reduce efficacy.
- If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system, unless the pesticide label-prescribed safety devices for public water systems are in place.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

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

Drip Irrigation: Quadris may be applied through drip irrigation systems for soilborne disease control. The soil should have adequate moisture capacity prior to drip application.

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

Sprinkler Irrigation

- Apply this product through sprinkler irrigation systems including center pivot, lateral move, end tow, side [wheel] roll, traveler, big gun, solid set, or hand move irrigation systems.
- Do not apply this product through any other type of irrigation system except as specified on this label.

- Apply with center pivot or continuous-move equipment distributing 1/2 acre-inch or less during treatment.
- In general, use the least amount of water required for proper distribution and coverage.
- If stationary systems (solid set, handlines or wheel lines other than continuous-move) are used, this product should be injected into no more than the last 20-30 minutes of the set.
- Do not apply when winds are greater than 10-15 mph to avoid drift or wind skips.
- Do not apply when wind speed favors drift beyond the area intended for treatment.
- Plant injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform treated water.
- Thorough coverage of foliage is required for good control.
- Good agitation should be maintained during the entire application period.

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

Operating Instructions

1. Do not apply when wind speed favors drift beyond the area intended for treatment.
2. 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.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
6. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
7. 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.

8. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
9. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

Center Pivot Irrigation Equipment

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

- Determine the size of the area to be treated.
- Determine the time required to apply 1/8-1/2 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 Quadris 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 Quadris required to treat the area covered by the irrigation system.
- Add the required amount of Quadris 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 Quadris solution. Time the injection to last at least as long as it takes to bring the system to full pressure.
- Maintain constant solution tank agitation during the injection period.
- Continue to operate the system until the Quadris solution has cleared the sprinkler head.

Solid Set, Hand Move, and Moving Wheel Irrigation Equipment

- Determine the acreage covered by the sprinklers.
- Fill injector solution tank with water and adjust flow rate to use the contents over a 20 to 30-minute interval. When applying Quadris through irrigation equipment use the lowest obtainable water volume while maintaining uniform distribution.
- Determine the amount of Quadris required to treat the area covered by the irrigation system.
- Add the required amount of Quadris 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 Quadris solution has cleared the last sprinkler head.

Specific Instructions for Public Water Systems

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

DIRECTIONS FOR USE

Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Alfalfa (See Nongrass Animal Feeds Forage, Fodder, Straw and Hay)			

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DIRECTIONS FOR USE

Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Artichoke, Globe	Ramularia leaf spot *(Ramularia cynarae)*	11.0-15.5 (0.18-0.25)	Begin applications prior to or in the early stages of disease development, and continue as needed throughout the season at a 2- to 3-week interval, up to and including the day of harvest. Do not apply at less than 7-day intervals. Applications may be made by ground, air or chemigation. For ground applications, apply in 50-200 gallons of water per acre to obtain coverage without excessive runoff. For aerial applications apply in a minimum of 5 gallons of water per acre. An adjuvant may be added at specified rates. Do not apply more than one application of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
Specific Use Restrictions: 1) Do not apply more than 92.3 fl oz of product/A/season. 2) Do not apply more than 1.5 lb ai/A/season of azoxystrobin-containing products. 3) Quadris may be applied the day of harvest (0-day PHI).			
Asparagus	Stemphyllium purple spot *(Stemphyllium vesicarium)*	6.0-15.5 (0.10-0.25)	Quadris applications should begin prior to disease development and continue throughout the season on a 7- to 14-day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at specified rates. Use a minimum of 10 gallons of water per acre by ground, and minimum of 3 gallons per acre by air. An adjuvant may be added at specified rates. Do not apply more than one application of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
Specific Use Restrictions: 1) Do not apply more than 92.3 fl oz of product/A/season. 2) Do not apply more than 1.5 lb ai/A/season of azoxystrobin-containing products. 3) Do not apply within 100 days of harvest (100-day PHI).			

Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Brassica, Head and Stem Subgroup 5A Broccoli Chinese broccoli [gai lon] Brussels sprouts Cabbage Chinese cabbage [napa] Chinese mustard cabbage [gai choy] Cauliflower Cavalo broccolo Kohlrabi Including all cultivars and/or hybrids of these	Alternaria leaf spot (*Alternaria* spp.) Anthracnose (*Colletotrichum* spp.) Cercospora leaf spot (*Cercospora brassicicola*) Downy mildew *(Peronospora parasitica)* Pin rot (*Alternaria* spp.) Powdery mildew *(Erysiphe polygoni)* Rhizoctonia blight *(Rhizoctonia solani)* Ring spot *(Mycosphaerella brassicicola)* White leaf spot *(Pseudocercosporella capsellae)* White rust *(Albugo candida)*	6.0-15.5 (0.10-0.25)	Quadris applications should begin prior to disease development and continue throughout the season on a 7- to 14-day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at specified rates. Use a minimum of 10 gallons of water per acre by ground, and minimum of 3 gallons per acre by air. Do not apply more than two applications of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.

Specific Use Restrictions:
1) Do not apply more than 92.3 fl oz of product/A/season.
2) Do not apply more than 1.5 lb ai/A/season of azoxystrobin-containing products.
3) Quadris may be applied the day of harvest (0-day PHI).

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Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Brassica, Leafy Greens Subgroup 5B Broccoli raab Cabbage, Chinese Collards Kale Mizuna Mustard greens Mustard spinach Rape greens Including all cultivars and/or hybrids of these	Alternaria leaf spot (*Alternaria* spp.) Anthracnose (*Colletotrichum* spp.) Black spot (*Alternaria* spp.) Cercospora leaf spot (*Cercospora* spp.) Downy mildew *(Peronospora parasitica)* Powdery mildew *(Erysiphe polygoni)* Ring spot *(Mycosphaerella brassicicola)* White rust (*Albugo candida*)	6.0-15.5 (0.10-0.25)	Quadris applications should begin prior to disease development and continue throughout the season on a 7- to 14-day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at specified rates. Do not apply more than one application of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
	Soilborne Diseases Seedling root rot, basal stem rot (*Rhizoctonia solani*)	0.40-0.80 fl oz/ 1000 row feet	For soilborne/seedling disease control, see directions and rates under **the SOILBORNE/ SEEDLING DISEASE CONTROL** section.

Specific Use Restrictions:
1) Do not apply more than 46 fl oz of product/A/season.
2) Do not apply more than 0.75 lb ai/A/season of azoxystrobin-containing products.
3) Quadris may be applied the day of harvest (0-day PHI).

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

Specific Use Restrictions:
1) Do not apply more than 92.3 fl oz of product/A/season.
2) Do not apply more than 1.5 lb ai/A/season of azoxystrobin-containing products.
3) Quadris may be applied the day of harvest (0-day PHI).

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

Specific Use Restrictions:
1) Do not apply more than 27.6 fl oz of product/A/season.
2) Do not apply more than 0.45 lb ai/A/season of azoxystrobin-containing products.
3) Do not apply within 30 days of harvest (30-day PHI).

Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Carrots	Cercospora leaf spot (*Cercospora* spp.) Early blight (*Cercospora carotae*) Late blight (*Alternaria dauci)* Powdery mildew (*Erysiphe* spp.) White mold (*Sclerotium rolfsii)* For additional diseases, see **Vegetables, Root, Subgroup**	9.0-15.5 (0.15-0.25)	Quadris applications should begin prior to disease development and continue throughout the season every 7-14 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at specified rates. Do not apply more than one application of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
	Soilborne Diseases Rhizoctonia root rot (*Rhizoctonia solani*)	0.40-0.80 fl oz/ 1000 row feet	For soilborne/seedling disease control, see directions and rates under **the SOILBORNE/ SEEDLING DISEASE CONTROL** section.

Specific Use Restrictions:
1) Do not apply more than 123 fl oz of product/A/season.
2) Do not apply more than 2.0 lb ai/A/season of azoxystrobin-containing products.
3) Quadris may be applied the day of harvest (0-day PHI).

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Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Celery	Early blight *(Cercospora apii)* Late blight *(Septoria apicola)* For additional diseases, see **Leafy Vegetables**	9.0-15.5 (0.15-0.25)	Quadris applications should begin prior to disease development and continue throughout the season every 7-14 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at specified rates. Do not apply more than one application of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
	Soilborne Diseases Rhizoctonia root rot *(Rhizoctonia solani)*	0.40-0.80 fl oz/ 1000 row feet	For soilborne/seedling disease control, see directions and rates under **the SOILBORNE/ SEEDLING DISEASE CONTROL** section.

Specific Use Restrictions:
1) Do not apply more than 92.3 fl oz of product/A/season.
2) Do not apply more than 1.5 lb ai/A/season of azoxystrobin-containing products.
3) Quadris may be applied the day of harvest (0-day PHI).

Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Cereals Barley Oats Rye	Kernel blight or black point (*Alternaria* spp.) *(Cochiobolus sativus)* Leaf rust (*Puccinia hordei*) *(P. recondita)*	6.0-12.0 (0.10- 0.20)	Quadris should be applied prior to disease development. Protecting the flag leaf is important for maximizing disease control. For best results, sufficient water volume must be used to provide thorough coverage. Quadris can be applied by ground, air or chemigation. A crop oil concentrate adjuvant may be added at 1.0% v/v to optimize efficacy. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy. Do not apply more than two sequential applications of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11. Do not make more than two (2) applications of Quadris or other Group 11 fungicide per season.
	Barley stripe (*Drechslera graminea* = (*Pyrenophora graminea*) Net blotch (*Pyrenophora teres*) Scald (*Rhynchosporium secalis*) Septoria leaf and glume blotch (*Septoria* spp., *Stagonospora* spp.) Spot blotch *(Cochliobolus sativus)* Stem rust (*Puccinia graminis* f.sp. *tritici*) Stripe rust *(Puccinia striiformis)* Tan spot *(Pyrenophora trichostroma)*	9.0-12.0 (0.15-0.20)	
	Powdery mildew (*Erysiphe graminis f. sp. hordei*) Stagonospora blotch (*Stagonospora nodorum*)	12.0 (0.20)	

Specific Use Restrictions:
1) Do not apply after Feekes 10.54.
2) Do not apply more than 0.40 lb ai/A/season of azoxystrobin-containing products.
3) Do not apply within 7 days of grazing or harvest (7-day PHI) for forage and hay.

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Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Cereals Wheat Triticale	Leaf rust (*Puccinia triticina = Puccinia recondita* f.sp. *tritici*) Septoria leaf and glume blotch (*Septoria tritici, Septoria nodorum*) Stem rust (*Puccinia graminis*) Stripe rust (*Puccinia striiformis*) Tan spot (*Pyrenophora tritici-repentis*)	4.0-12.0 (0.07-0.20)	Quadris should be applied prior to disease development. Applications may be made by ground, air or chemigation. A crop oil concentrate adjuvant may be added at 1.0% v/v to optimize efficacy. Do not apply more than two sequential applications of Quadris or other Group 11 fungicide before alternation with a fungicide that is not in Group 11. Do not make more than two applications of Quadris or other Group 11 fungicide per season.
	Powdery mildew (*Erysiphe graminis*)	7.5-11.0 (0.125-0.175)	
Specific Use Restrictions: 1) Do not apply after Feekes 10.54. 2) Do not apply more than 0.40 lb ai/A/season of azoxystrobin-containing products. 3) Do not apply within 7 days (7-day PHI) for forage and hay. 4) Do not apply within 14 days of grazing (14-day PHI).			
Christmas Trees	Diplodia tip blight (*Diplodia pinea*) Lophodermium needlecast (*Lophodermium pinastri*) Swiss needlecast (*Phaeocrytopus gaumannii*)	6.0-15.5 (0.10-0.25)	Quadris applications should begin prior to disease development and continue throughout the season at 7- to 21-day intervals following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at specified rates. Do not apply more than two sequential applications of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
Specific Use Restrictions: 1) Do not apply more than 123 fl oz of product/A/season. 2) Do not apply more than 2.0 lb ai/A/season of azoxystrobin-containing products.			

Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Clover (and stands containing Clover) (See Nongrass Animal Feeds Forage, Fodder, Straw and Hay)			
Corn Field Pop Sweet (Includes Seed Production)	Rust *(Puccinia sorghi)*	6.0-9.0 (0.10-0.15)	For gray leaf spot, apply Quadris at the onset of disease. A second application may be required 14 days later if disease pressure persists. For all other diseases, Quadris applications should begin prior to disease development and may continue throughout the season every 7-14 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at specified rates. Do not apply more than two sequential applications of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11. For field corn and field corn grown for seed, do not make more than two (2) applications per season.
	Anthracnose leaf blight *(Colletotrichum graminicola)* Eye spot *(Aureobasidium zeae)* Gray leaf spot *(Cercospora sorghi)* Northern corn leaf blight *(Setosphaeria turcica)* Northern corn leaf spot *(Cochliobolus carbonum)* Physoderma brown spot *(Physoderma maydis)* Southern corn leaf blight *(Cochliobolus heterostrophus)* Southern rust *(Puccinia polyspora)*	6.0-15.5 (0.10-0.25)	
	Early Application (V4 – V8)	6.0 (0.10)	Quadris, a member of Syngenta's Plant Performance™ product line, may be applied early (V4 – V8) for early season disease control and beneficial physiological benefits. If mixing with herbicides, other than solo glyphosate products, Callisto®, Callisto® Xtra, or Halex® GT, consult your local Syngenta representative.

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Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Corn Field Pop Sweet (Includes Seed Production) ***(continued)***	**Soilborne Diseases** Rhizoctonia root and stalk rot (*Rhizoctonia solani*)	0.40-0.80 fl oz/ 1000 row feet	For soilborne/seedling disease control, see directions and rates under **the SOILBORNE/ SEEDLING DISEASE CONTROL** section.
Specific Use Restrictions: 1) Do not apply more than 123 fl oz of product/A/season. 2) Do not apply more than 2.0 lb ai/A/season of azoxystrobin-containing products. 3) Do not apply within 7 days of harvest (7-day PHI).			
Cotton	Alternaria leaf spot (*Alternaria* spp.) Anthracnose *(Glomerella gossypii)* Areolate mildew *(Ramularia gossypii)* Ascochyta blight (*A. gossypii*) Boll rots *(Ascochyta gossypii,* *Alternaria* spp., *Diplodia* spp., *Phoma* spp.*)* Cotton rust (*Puccinia schedonnardi*) Diplodia boll rot (*Diplodia* spp.) Hardlock *(Fusarium verticillioides)* Leaf spots and blights *(Alternaria* spp., *Ascochyta gossypii,* *Cercospora* spp., *Stemphyllium* spp.*)* Southwestern cotton rust (*Puccinia cacabata*) *(Puccinia* spp.*)* Stemphyllium leaf spot *(Stemphyllium* spp.*)* Target spot *(Corynespora cassiicola)*	6.0–9.0 (0.1–0.15)	For optimum disease control, Quadris applications should begin prior to or in the early stages of disease development. Applications may be made by ground, air, or chemigation. An adjuvant may be added at specified rates. Minimum application volumes for air and ground are 5 and 10 gallons per acre, respectively. The first Quadris application should be targeted approximately at pinhead square to first bloom to protect the plant from diseases. Subsequent application(s) are specified on a 14- to 21-day schedule. An additional application may be made depending on environmental conditions and the health of the cotton plant. Under poor environmental conditions conducive to seedling disease and poor cotton growth, Quadris may be applied to early season cotton to suppress damping off and other diseases which result in plant stand loss. Do not apply more than two foliar applications of Quadris or other Group 11 fungicides before alternating with a fungicide that has a different mode of action. Do not make more than three (3) foliar applications of Quadris or other Group 11 fungicides per crop per acre per year.

Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Cotton ***(continued)***	Pythium seedling blight *(Pythium aphanidermatum)* Rhizoctonia seedling blight *(Rhizoctonia solani)*	**In-Furrow** 0.40-0.80 fl oz product per 1000 row feet (0.10-0.20 oz ai per 1000 row feet)	**Quadris Application Directions:** Apply Quadris as an in-furrow spray in 3-7 gallons of water at planting. Mount the spray nozzle so the spray is directed into the furrow just before the seed are covered. Use the higher rate when the weather conditions are expected to be conducive for disease development, if the field has a history of Pythium problems, or if minimum/low till programs are in place. See **the SOILBORNE/SEEDLING DISEASE CONTROL** section for table illustrating total fluid ounces per acre with various row spacings.
Specific Use Restrictions: 1) Do not apply more than 27 fl oz of product/crop/season as a foliar spray. 2) Quadris may be applied up to 45 days before harvest (45-day PHI).			

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Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Cucurbits, Crop Group 9 Cantaloupe Chayote Chinese-waxgourd Cucumber Gourds Honeydew Melons *Momordica* spp. (bitter melon, balsam apple) Muskmelon Watermelon Pumpkin Squash Zucchini Including cultivars and/or hybrids of these	Alternaria blight (*Alternaria cucumerina*) Anthracnose (*Colletotrichum lagenarium*) Belly rot (*Rhizoctonia solani*) Cercospora leaf spot (*Cercospora citrulina*) Downy mildew (*Pseudoperonospora cubensis*) Gummy stem blight (*Didymella bryoniae*) Leaf spot (*Alternaria* spp., *Cercospora* spp.) Myrothecium canker (*Myrothecium roridum*) Plectosporium blight (*Plectosporium tabacinum*) Powdery mildew (*Sphaerotheca fuliginea, Erysiphe cichoracearum*) Target leaf spot (*Corynespora cassicola*) Ulocladium leaf spot (*Ulocladium cucurbitae*)	11.0-15.5 (0.18-0.25)	For both downy and powdery mildew, make preventative applications on a 5- to 7-day schedule. For belly rot control, the first application should be made at the 1-3 leaf crop stage with a second application just prior to vine tip over or 10-14 days later whichever occurs first. For all other diseases, Quadris applications should begin prior to disease development and continue throughout the season every 7-14 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at specified rates. Do not tank mix Quadris with crop oil concentrates (COC), methylated spray oil (MSO) or silicon adjuvants. Do not tank mix Quadris with Malathion, Kelthane®, Thiodan®, Phaser®, Lannate®, Lorsban®, M-Pede® or Botran®. Do not apply more than one application of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11. Do not make more than four (4) foliar applications of Quadris or other Group 11 fungicides per crop per acre per year.
	Soilborne Diseases Rhizoctonia root rot (*Rhizoctonia solani*)	0.40-0.80 fl oz/ 1000 row feet	For soilborne/seedling disease control, see directions and rates under **the SOILBORNE/SEEDLING DISEASE CONTROL** section.

Specific Use Restrictions:
1) Do not apply more than 92.3 fl oz of product/A/season.
2) Do not apply more than 1.5 lb ai/A/season of azoxystrobin-containing products.
3) Do not apply within 1 day of harvest (1-day PHI).

Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Fruiting Vegetables Crop Group 8-10 **Pepper** Bell Pepper Non-Bell Pepper Sweet Non-Bell Pepper **Eggplant** **Okra** **Pepino** Including all cultivars and/or hybrids of these **See specific directions for use for Tomatoes.** See complete list of fruiting vegetables below.	Anthracnose (*Colletotrichum* spp.) Powdery mildew (*Sphaerotheca* spp.)	6.0-15.5 (0.10-0.25)	Quadris applications should begin prior to disease development and continue throughout the season on a 7- to 14-day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at specified rates. Do not apply more than one application of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
	Soilborne Diseases Rhizoctonia seedling rot (*Rhizoctonia solani*)	0.40-0.80 fl oz/ 1000 row feet	For soilborne/seedling disease control, see directions and rates under the **SOILBORNE/SEEDLING DISEASE CONTROL** section.

Complete List of Fruiting Vegetables: African Eggplant; Bell Pepper; Eggplant; Martynia; Nonbell Pepper; Okra; Pea Eggplant; Pepino; Roselle; Scarlet Eggplant; cultivars, varieties; and/or hybrids of these.

Specific Use Restrictions:
1) Do not apply more than 61.5 fl oz of product/A/season.
2) Do not apply more than 1.0 lb ai/A/season of azoxystrobin-containing products.
3) Quadris may be applied the day of harvest (0-day PHI).

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Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Herbs & Spices (except black pepper) Crop Group 19 Allspice; Angelica; Anise (seed); Anise, star; Annatto; Balm; Basil; Borage; Burnet; Camomile; Caper (buds); Caraway; Caraway, black; Cardamon; Cassia (buds); Catnip; Celery seed; Chervil (dried); Chive; Chive, Chinese; Cinnamon; Clary; Clove (buds); Coriander (cilantro or Chinese parsley) (leaf); Coriander (seed); Costmary; Culantro (leaf and seed); Cumin; Curry (leaf); Dill (seed); Dillweed; Fennel, common; Fennel, Florence (seed); Fenugreek; Grains of paradise; Horehound; Hyssop; Juniper (berry); Lavender; Lemongrass; Lovage (leaf and seed); Mace; Marigold; Marjoram; Mustard (seed), Nasturtium; Nutmeg; Parsley (dried); Pennyroyal; Pepper, white; Poppy seed; Rosemary; Rue; Saffron; Sage; Savory, summer and winter; Sweet bay; Tansy; Tarragon; Thyme; Vanilla; Wintergreen; Woodruff; Wormwood	Corynespora blight *(Corynespora cassiicola)* Dill blight (*Cercosporidium punctum)* Phoma blight *(Passalora puncta)*	6.0-15.5 (0.10-0.25)	Quadris applications should begin at the onset of disease development and continue throughout the season on a 7-day schedule, following the resistance management guidelines. Applications may be made by ground only. An adjuvant may be added at specified rates. Use a minimum of 30 gallons of water per acre. Do not apply more than two sequential applications of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
Wasabi	Fusarium rhizome and root rot (*Pythium* spp.)	6.2-15.4 (0.10-0.25)	Quadris applications should begin at the onset of disease development and continue throughout the season on a 7-day schedule, following the resistance management guidelines. Applications may be made by ground or through the irrigation system (chemigation). An adjuvant may be added at specified rates. Use a minimum of 30 gallons of water per acre. Do not apply more than two sequential applications of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.

Specific Use Restrictions:
1) Do not apply more than 92.3 fl oz of product/A/season.
2) Do not apply more than 1.5 lb ai/A/season of azoxystrobin-containing products.
3) Quadris may be applied the day of harvest (0-day PHI).

Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Leafy Vegetables (except Brassica), Crop Group 4 Amaranth Arugula Cardoon Celery Celtuce Chervil Chrysanthemum, edible Corn salad Cress Dandelion Dock Endive Fennel Lettuce, head and leaf Orach Parsley Purslane Radicchio Rhubarb Spinach Swiss chard Including cultivars and/or hybrids of these	**Foliar Diseases** Alternaria leaf spot (*Alternaria sonchi, A.* spp.) Anthracnose (*Microdochium panattonianum, Colletotrichum dematium*) Ascochyta leaf spot (*Ascochyta* spp.) Cercospora leaf spot (*Cercospora* spp.) Rust (*Puccinia* spp.) (*Uromyces* spp.) Septoria leaf spot (*Septoria petroselini*) White rust (*Albugo occidentalis*)	6.0-15.5 (0.10-0.25)	For both downy and powdery mildew, make preventative applications on a 5- to 7-day schedule. For all other diseases, Quadris applications should begin prior to disease development and continue throughout the season every 7-14 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at specified rates. Do not apply more than one application of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11. **ATTENTION:** Applications of Quadris to leafy vegetable foliage have contributed to phytotoxicity under certain circumstances. Proceed with caution with regard to tank mixes and adjuvants when treating all leafy vegetables with Quadris. Quadris must not be tank mixed on leaf lettuce with Ambush® WP, Pounce® WP, Aliette®, Warrior with Zeon Technology®, or another product that may increase the penetration of Quadris into the leaf surface, such as, but not limited to, silicone wetters.
	Downy mildew (*Bremia lactucae*) Powdery mildew (*Eyrisiphe cichoracearum*)	12.0-15.5 (0.20-0.25)	
	Soilborne Diseases Webb blight, Bottom rot, Crater rot, Root rot (*Rhizoctonia solani*)	0.40-0.80 fl oz/ 1000 row feet	For soilborne/seedling disease control, see directions and rates under the **SOILBORNE/SEEDLING DISEASE CONTROL** section.

Specific Use Restrictions:
1) Do not apply more than 92.3 fl oz of product/A/season.
2) Do not apply more than 1.5 lb ai/A/season of azoxystrobin-containing products.
3) Quadris may be applied the day of harvest (0-day PHI).

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Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Legume Vegetables, Dry and Succulent, Crop Group 6 and Legume Vegetables, Foliage of any Cultivar of Bean (*Phaseolus* spp.) and Field Pea (*Pisum* spp.), 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, cowpea, catjang, Chinese longbean, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean) Bean (Glycine max) soybean, immature seed (edamame) Broad bean (fava bean) (*Vicia faba*) Chickpea (garbanzo bean) (*Cicer arietinum*) Guar (*Cyamopsis tetragonoloba*) Jackbean (*Canavalia ensiformis*) Lablab bean (hyacinth bean) *(Lablab purpureus)* Lentil (*Lens esculenta*) Pea (*Pisum* spp.) (includes dwarf pea, edible-pod pea, English pea, garden pea, green pea, field pea, snow pea, sugar snap pea) Pigeon pea (*Cajanus cajan*) Sword bean *(Canavalia gladiata)*	Bean rust (*Uromyces appendiculatus*)	6.0 (0.10)	Quadris applications should begin prior to disease development and continue throughout the season every 7-14 days following the resistance management guidelines. Use the higher rates under severe disease pressure. Applications may be made by ground, air or chemigation. An adjuvant may be added at specified rates. For rust, use of a non-ionic surfactant is recommended. Do not apply more than two sequential applications of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
	Alternaria blight (*Alternaria* spp.) Alternaria leaf spot (*Alternaria alternata*) Anthracnose (*Colletotrichum lindemuthianum*) Ascochyta blight (*Mycosphaerella pinodes*) Ascochyta leaf and pod spot (*Ascochyta* spp.) Ascochyta leaf spot (*Ascochyta phaseolorum*) Rust (*Phakopsora* spp.) Southern blight (*Sclerotium rolfsii*) Web blight *(Rhizoctonia solani)*	6.0-15.5 (0.10-0.25)	

Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Legume Vegetables, Dry and Succulent, Crop Group 6 and Legume Vegetables, Foliage of any Cultivar of Bean (*Phaseolus* spp.) and Field Pea (*Pisum* spp.), Crop Group 7 ***(continued)***	**Soilborne Diseases** Rhizoctonia root rot (*Rhizoctonia solani*)	0.40-0.80 fl oz/ 1000 row feet	For soilborne/seedling disease control, see directions and rates under the **SOILBORNE/ SEEDLING DISEASE CONTROL** section. Quadris can be applied to the furrow and covering soil at planting time in a 7-inch band. Avoid a concentrated stream directly on the seed or delayed emergence may occur. If using a narrow spray as an in-furrow spray, adjust the spray stream to hit the soil next to the seed but not hit the seed. **NOTE:** Conduct a seed safety test with your crop before making in-furrow applications.

Specific Use Restrictions:
1) Do not apply more than 92.3 fl oz of product/A/season.
2) Do not apply more than 1.5 lb ai/A/season of azoxystrobin-containing products.
3) Do not apply within 14 days of harvest (14-day PHI) of dry legume vegetables (dry bean and dry pea seeds).
4) Quadris may be applied the day of harvest (0-day PHI) for succulent beans and peas.
5) For use on soybeans, please refer to the soybean crop directions for use.

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Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Mint (Fresh or for processing into mint oil)	Leaf spot (*Ramularia* spp.) (*Alternaria* spp.) (*Phoma* spp.) Powdery mildew (*Erysiphe* spp.) Rust (*Puccinia menthae*)	6.0-15.5 (0.10-0.25)	Quadris applications should begin prior to disease development and continue throughout the season on a 7- to 10-day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at specified rates. Do not apply more than two sequential applications of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
	Soilborne Diseases Seedling root rot, Basal stem rot (*Rhizoctonia solani*)	0.40-0.80 fl oz/ 1000 row feet	For soilborne/seedling disease control, see directions and rates under **the SOILBORNE/ SEEDLING DISEASE CONTROL** section.

Specific Use Restrictions:
1) Do not apply more than 46 fl oz of product/A/season.
2) Do not apply more than 0.75 lb ai/A/season of azoxystrobin-containing products.
3) For processed mint, do not apply within 7 days of harvest (7-day PHI).
4) For fresh mint, Quadris may be applied the day of harvest (0-day PHI).

Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Nongrass Animal Feeds Forage, Fodder, Straw and Hay, Crop Group 18 For pure/mixed stands of the following or stands mixed with grasses: Alfalfa (*Medicago sativa* subsp. *sativa*) Bean, velvet (*Mucuna pruriens* var. *utilis*) Clover (*Trifolium* spp., *Melilotus* spp.) Kudzu (*Pueraria lobata*) Lespedeza (*Lespedeza* spp.) Lupin (*Lupinus* spp.) Sainfoin (*Onobrychis viciifolia*) Trefoil (*Lotus* spp.) Vetch (*Vicia* spp.) Vetch, crown (*Coronilla varia*) Vetch, milk (*Astragalus* spp.)	Alternaria leaf spot (*Alternaria* spp.) Anthracnose (*Colletotrichum trifolii*) Black patch (*Rhizoctonia leguminicola*) Cercospora leaf spot (*Cercospora* spp.) Common leaf spot (*Pseudopezizza solani*) Downy mildew (*Peronospora* spp.) Leaf spot (*Leptospaerulina briosiai*) Powdery mildew (*Oidium* spp., *Erysiphe* spp.) Rhizoctonia and stem blight (*Rhizoctonia solani*) Rust (*Phakopsora* spp.) (*Uromyces* spp.) Spring black stem and leaf spot (*Phoma medicaginis*) Stagonospora leaf spot (*Stagonospora meliloti*) Stemphyllium leaf spot (*Stemphyillium* spp.) Summer black stem and leaf spot (*Cercospora medicaginis*) Yellow leaf blotch (*Leptotrichilia medicaginis*)	6.0-15.5 (0.10-0.25)	Quadris applications should begin prior to disease development and continue throughout the season. Use the higher rates under severe disease pressure. Applications may be made by ground, air or chemigation. Use of an additive such as crop oil concentrate or non-ionic surfactant is recommended. For management of outbreaks of Asian soybean rust and other Puccinia species on alternate host species such as kudzu, lespedeza, trefoil and vetch, apply Quadris to forages grown in the vicinity of soybeans and other legume crops (beans and peas) as a part of an Asian rust disease management strategy. Consult with local experts and university extension agents for the latest advice. Do not apply more than three sequential applications of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
	Sclerotinia crown rot and wilt on clover (*Sclerotinia trifoliorum*)	10.0 (0.17)	

Specific Use Restrictions:
1) Do not apply more than 0.25 lb ai/A per cutting.
2) Do not apply more than 0.75 lb ai/A/season of azoxystrobin-containing products.
3) Do not apply within 14 days of grazing or harvest (14-day PHI) for forage and hay.
4) Not for use on rangeland.

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Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Oilseed Crops Crop Group 20 Crambe Flax Mustard, Indian Mustard, Field Mustard, Black Rapeseed Rapeseed, Indian Safflower Sunflower Including all cultivars and/or hybrids of these See complete list of oilseed crops below.	Alternaria leaf spot (*Alternaria* spp.) Downy mildew (*Plasmopora halstedii, Plasmopora helianthi*) Pasmo (*Septoria linicola grass*) Sunflower rust (*Puccinia helianthi*)	6.0-15.5 (0.1-0.25)	Apply 6.0 fl oz of Quadris at early bud followed by 14.0 fl oz at about 45 days before harvest. A third application of 7.0 fl oz may be made 30 days before harvest. Applications may be made by ground, air or chemigation. Use a minimum of 10 gallons of water per acre for ground applications. Do not apply more than two sequential applications of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.

Complete List of Oilseed Crops: Borage; Calendula; Castor Oil Plant; Chinese Tallowtree; Cottonseed; Crambe; Cuphea; Echium; Euphorbia; Evening Primrose; Flax Seed; Gold of Pleasure; Hare's Ear Mustard; Jojoba; Lesquerella; Lunaria; Meadowfoam; Milkweed; Mustard Seed; Niger Seed; Oil Radish; Poppy Seed; Rapeseed; Rose Hip; Safflower; Sesame; Stokes Aster; Sunflower; Sweet Rocket; Tallowwood; Tea Oil Plant; Vernonia; cultivars, varieties, and/or hybrids of these.

Specific Use Restrictions:
1) Do not apply more than 27 fl oz of product/A/season.
2) Do not apply more than 0.45 lb ai/A/season of azoxystrobin-containing products.
3) Do not apply within 30 days of harvest (30-day PHI).

Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Potatoes	Black dot (*Colletotrichum coccodes*) Early blight (*Alternaria solani*) Late blight (*Phytophthora infestans*) Powdery mildew (*Erysiphe cichoracearum*)	6.0-15.5 (0.10-0.25)	**Early blight** - For a 7-day application schedule, use Quadris 6.2 fl oz product/A. For a 14-day application schedule, use the 12.0 fl oz product/A rate. **Late blight** - Apply Quadris at 12.0 fl oz product/A on a 7-day schedule. Initiate late blight applications in a preventative schedule prior to disease development according to local practices. If late blight symptoms develop or conditions favor disease, switch immediately to a non-Group 11 fungicide, using a 5-day schedule. Addition of a spreader/sticker may improve coverage. For all other diseases, Quadris applications should begin prior to disease development and continue throughout the season every 7-14 days following the resistance management guidelines. Use the high rate and the shorter interval if disease epidemics are severe. Applications may be made by ground, air or chemigation. Do not apply more than one application of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
	Soilborne Diseases Black dot (*Colletotrichum coccodes*) Black scurf (*Rhizoctonia solani*) Silver scurf (*Helminthosporium solani*)	0.40-0.80 fl oz/ 1000 row feet	For soilborne/seedling disease control, see directions and rates under **the SOILBORNE/SEEDLING DISEASE CONTROL** section.

Specific Use Restrictions:
1) Do not apply more than 123 fl oz of product/A/season.
2) Do not apply more than 2.0 lb ai/A/season of azoxystrobin-containing products.
3) Do not apply within 14 days of harvest (14-day PHI).

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Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Quinoa	Leaf Spot (*Ascochyta hyalospora*) Stalk Rot (*Phoma exigua*)	12 (0.20)	Apply prior to disease development. An adjuvant may be added at recommended rates.

Application Directions: Quadris can be applied by either ground, chemigation, or aerial application.

Specific Use Restrictions:
1) Do not apply more than 0.40 lb ai/A/season of azoxystrobin-containing products.
2) Do not apply within 7 days (7-day PHI) for forage and hay.
3) Do not apply within 14 days of grazing (14-day PHI).
4) Do not apply within 30 days of harvest (30-day PHI).

Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Rice	**Sheath/Stem Diseases** Sheath blight (*Rhizoctonia solani*)	9.0-12.5 (0.15-0.20)	Quadris should be applied prior to disease development. Applications may be made by ground, air or chemigation. For aerial application, volumes should be 5-10 GPA. An adjuvant may be added at specified rates. For sheath blight control, application rates may vary from 9.0 to 12.0 fl oz/A depending on the growth stage of the rice and the severity of the disease. Consult with your local extension personnel or Syngenta representative for the Syngenta Technical Bulletin on sheath blight control. For other stem/sheath diseases including stem rot, black sheath rot, aggregate sheath spot and sheath spot, apply when disease is less than 4 inches above water line usually between panicle differentiation (PD) +5 days to PD +10 days or at initial sign of disease. Under heavy disease pressure and conditions favorable for disease development, a second application may be applied. For foliar and panicle diseases, apply Quadris prior to disease development. Quadris must be applied as a preventative treatment for blast control and applied prior to favorable conditions for blast development. For panicle blast, an application should be applied at mid-boot to boot-split but prior to full head emergence. A second application should be applied when panicles are approximately 60-90% emerged from the boot (7-14 days later). When Quadris is being applied for panicle blast on continuous rice acreage (no rotation to other crops), no more than two sequential foliar applications of Quadris or other Group 11 fungicides should be made over multiple years before alternating with a fungicide with a different mode of action. Do not make more than two foliar applications of Quadris or other Group 11 fungicides per acre per season.
	Aggregate sheath spot (*Ceratobasidium oryzae-sativae* = *Rhizoctonia oryzae-sativae*) Black sheath rot (*Gaeumannomyces graminis var. graminis*) Sheath spot (*Rhizoctonia oryzae*) Stem rot (*Magnaporthe salvinii* = *Sclerotium oryzae* = *Nakateae sigmoidea*)	12.5-15.5 (0.20-0.25)	
	Foliar Diseases Brown leaf spot (*Cochliobolus miyabeanus*) Leaf smut (*Entyloma oryzae*) Narrow brown leaf spot (*Cercospora janseana* = *Cercospora oryzae*)		
	Panicle Diseases Kernel smut (*Tilletia barclayana* = *Neovossia barclayana*) Panicle blast (*Pyricularia grisea*)		

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

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Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Sorghum	Anthracnose (*Colletotrichum graminicola*) Gray leaf spot (*Cercospora sorghi)*	6.0-15.5 (0.10-0.25)	Quadris applications should begin prior to disease development. Use the high rates under conditions favorable for severe disease pressure, dense plant canopies, or when susceptible varieties are planted. Contact extension personnel for local economic thresholds and timings for specific diseases in your area. Applications may be made by ground, air or chemigation. An adjuvant may be added at specified rates. Do not apply more than two sequential applications of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
	Soilborne Diseases Damping-off (*Rhizoctonia solani, Pythium aphanadermatum*)	0.40-0.80 fl oz/ 1000 row feet	For soilborne/seedling disease control, see directions and rates under **the SOILBORNE/ SEEDLING DISEASE CONTROL** section.

Specific Use Restrictions:
1) For grain and stover, do not apply more than 0.75 lb ai/A/season of azoxystrobin-containing products.
2) For forage, do not apply more than 0.5 lb ai/A/season of azoxystrobin-containing products.
3) Do not apply within 14 days of harvest (14-day PHI).

Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Soybeans Soybean, immature seed (edamame)	Aerial blight *(Rhizoctonia solani)* Alternaria leaf spot (*Alternaria* spp.) Anthracnose *(Colletotrichum truncatum)* Brown spot *(Septoria glycines)* Cercospora blight and leaf spot *(Cercospora kikuchii)* Frogeye leaf spot *(Cercospora sojina)* Pod and stem blight *(Diaporthe phaseolorum)* Rust (*Phakopsora* spp.)	6.0-15.5 (0.10-0.25)	Quadris applications should begin prior to disease development. Use the high rates under conditions favorable for severe disease pressure, dense plant canopies, or when susceptible varieties are planted. Contact Extension personnel for local economic thresholds and timings for specific diseases in your area. Applications may be made by ground, air or chemigation. An adjuvant may be added at specified rates. Use of a crop oil concentrate or non-ionic surfactant with the lower use rate is recommended. Soybean rust: Quadris may be used at 4 fl oz/A when tank mixed with a triazole registered for use on soybean rust. Do not apply more than two sequential applications of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
	Soilborne Diseases Rhizoctonia solani *(Rhizoctonia solani)* Southern blight *(Sclerotium rolfsii)*	0.40-0.80 fl oz/ 1000 row feet	For soilborne/seedling disease control, see directions and rates under **the SOILBORNE/ SEEDLING DISEASE CONTROL** section.

Specific Use Restrictions:

1) Do not apply more than 92.3 fl oz of product/A/season.
2) Do not make more than one application at 15.5 fl oz product/acre or 0.25 lb ai/A to soybean forage and hay.
3) Do not apply more than 1.5 lb ai/A/season of azoxystrobin-containing products.
4) Do not apply within 14 days of harvest (14-day PHI) of soybeans (beans).
5) Quadris may be applied the day of harvest (0-day PHI) to soybean forage and hay.

Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Sugarcane	Brown rust (*Puccinia melanocephela*) Orange rust (*Puccinia kuehnii*)	9.0-12.0 (0.15-0.20)	Quadris applications should begin prior to rust development, and continue throughout the season every 14-28 days following resistance management guidelines. Scout fields and begin applications at the earliest sign of rust. An adjuvant may be used at recommended rates. For ground applications, apply Quadris in sufficient water volume for adequate coverage and canopy penetration. Applications may be made by ground, air or chemigation. Do not apply more than two sequential applications of Quadris or other Group 11 fungicide, before alternation with a fungicide that is not in Group 11. Do not make more than four foliar applications of Quadris or other Group 11 fungicide per acre per year.
Specific Use Restrictions: 1) Do not apply more than 0.80 lb ai/A per season of azoxystrobin-containing products. 2) When applying by air, use no less than 5 gallons spray solution per acre. 3) Do not apply within 30 days of harvest (30-day PHI).			
Tobacco	Blue mold (*Peronospora tabacina*) Frogeye leaf spot (*Cercospora nicotianae*) Target spot (*Rhizoctonia solani*)	6.0-12.0 (0.1-0.2)	Quadris applications should begin prior to disease development or at first indication that blue mold is in the area. Do not apply Quadris as a curative application. If blue mold is present in the field, initiate applications with Acrobat MZ® prior to a Quadris application. Apply on a 7- to 14-day interval with shorter intervals under conditions conducive to disease development. For ground applications, apply Quadris in sufficient water volume for adequate coverage and canopy penetration. For aerial application, volumes should be 10-15 GPA. Applications may be made by ground, air or chemigation. Do not apply Quadris on greenhouse seedlings. Do not tank mix with Thiodan. Tank mixing Quadris with insecticides formulated as emulsifiable concentrates (EC) or containing high amounts of solvents, may cause some crop injury. Do not apply more than one application of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11. NOTE: Quadris may enhance weather flecking on the leaves of certain tobacco types. This does not affect yield and quality.

Specific Use Restrictions:
1) Do not apply more than 32 fl oz of product/A/season.
2) Do not apply more than 0.52 lb ai/A/season of azoxystrobin-containing products.
3) Quadris may be applied the day of harvest (0-day PHI).

Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Tobacco Transplants in Greenhouse **KY only**	Target spot *(Rhizoctonia solani)*	6.0 (0.1)	**Application Directions:** Apply 6 oz/A or 0.14 oz (4ml)/1000 sq ft in enough water for thorough coverage (recommend 5 gal/1000 sq ft). Make only one application prior to transplanting.
Tomatoes Tomatillos Subgroup 8-10A Including all cultivars and/ or hybrids of these See complete list of tomato crops below.	Anthracnose *(Colletotrichum coccodes)* Black mold *(Alternaria alternata)* Buckeye rot (*Phytophthora* spp.) Early blight *(Alternaria solani)* Powdery mildew *(Oidiopsis sicula)* Septoria leaf spot (*Septoria lycopersici*) Target spot *(Corynespora cassiicola)*	5.0-6.2 (0.08-0.10)	Quadris applications should begin prior to disease development and continue throughout the season following the resistance management guidelines. For late blight, Quadris should be applied at 5- to 7-day intervals. For all other tomato diseases, Quadris should be applied on 7- to 21-day intervals. Applications may be made by ground, air or chemigation. Do not apply more than one application of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11. Under certain weather conditions (particularly high temperatures) Quadris in combination with high rates of silicone-based or oil containing (petroleum or crop) additives or adjuvants may cause injury. Do not exceed 0.125% adjuvant (v/v). Consult a Syngenta representative for more information concerning additives or adjuvants. A tank mixture with Dimethoate may cause crop injury. On fresh market tomatoes do not use adjuvants or tank mix Quadris with any emulsifiable concentrate (EC) product.
	Late blight (*Phytophthora infestans*)	6.2 (0.10)	

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

Specific Use Restrictions:
1) Do not apply more than 37 fl oz of product/A/season.
2) Do not apply more than 0.6 lb ai/A/season of azoxystrobin-containing products.
3) Quadris may be applied the day of harvest (0-day PHI).

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Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Vegetables, Leaves of Root and Tuber Group and Root Subgroup Beet, garden and sugar[1,2] Burdock[1,2] Carrot[1,2] Cassava, bitter and sweet[1] Celeriac (celery root)[1,2] Chervil, turnip-rooted[1,2] Chicory[1,2] Dasheen (taro)[1] Ginseng[2] Horseradish[2] Parsley, turnip-rooted[2] Parsnip[1,2] Radish[1,2] Radish, oriental (daikon)[1,2] Rutabaga[1,2] Salsify[2] Salsify, black[1,2] Salsify, Spanish[2] Skirret[2] Sweet potato[1] Tanier[1] Turnip[1,2] Yam, true[1]	**Foliar Diseases** Alternaria leaf spot (*Alternaria* spp., *A. alternata*) Ascochyta leaf spot (*Ascochyta cynarae*) Rust (*Uromyces betae, Puccinia helianthi*) White rust (*Albugo tragopogonis*)	6.0-15.5 (0.10-0.25)	For powdery mildew, make preventative applications on a 5- to 7-day schedule. For all other diseases, Quadris applications should begin prior to disease development and continue throughout the season every 7-14 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at specified rates. Do not apply more than one application of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
	Cercospora leaf spot (*Cercospora betae, C. pastinaceae*) Powdery mildew (*Erysiphe polygoni, Leveillula taurica*)	9.0-15.5 (0.15-0.25)	
	Soilborne Diseases Circular spot, Southern blight (*Sclerotium rolfsii*) Pythium root rot (*Pythium aphanidermatum*) Rhizoctonia stem canker, Crown rot (*Rhizoctonia solani*)	0.40-0.80 fl oz/ 1000 row feet	For soilborne/seedling disease control, see directions and rates under **the SOILBORNE/SEEDLING DISEASE CONTROL** section. **For sugar beets** apply 3-7 inch banded applications in a minimum of 10 gallons per acre at the 2- to 8-leaf stage. Do not apply as a dribble application over the seed row. Tank mixtures of Quadris with crop oil concentrates (COC) or methylated spray oil (MSO) may result in crop injury. If cool soil conditions are expected after planting which could result in an extended period of plant emergence, Quadris should not be applied in-furrow. If using Quadris at the time of planting, do not use a starter fertilizer with it.

[1] = Leaves of Root and Tuber Vegetables, Crop Group 2
[2] = Root Vegetable, Crop Subgroup 1A

Specific Use Restrictions:
1) Do not apply more than 123 fl oz of product/A/season.
2) Do not apply more than 2.0 lb ai/A/season of azoxystrobin-containing products.
3) Apply as an in-furrow spray in a minimum of 10 gallons per acre.
4) Quadris may be applied the day of harvest (0-day PHI).

Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Vegetables, Tuberous and Corm Subgroup 1C Arracacha Arrowroot Artichoke, Chinese and Jerusalem Canna, edible Cassava, edible, bitter and sweet Chayote (root) Chufa Dasheen (Taro) Ginger Leren Potato Sweet potato Tanier Turmeric Yam, bean Yam, true	**Foliar Diseases** Alternaria leaf spot (*Alternaria* spp., *A. Alternata)* Ascochyta leaf spot *(Ascochyta cynarae)* Rust *(Uromyces betae, Puccinia helianthi)* White rust (*Albugo tragopogonis*)	6.0-15.5 (0.10-0.25)	For powdery mildew, make preventative applications on a 5- to 7-day schedule. For all other diseases, Quadris applications should begin prior to disease development and continue throughout the season every 7-14 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at specified rates. Do not apply more than one application of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.
	Cercospora leaf spot *(Cercospora betae, C. pastinaceae)* Powdery mildew *(Erysiphe polygoni, Leveillula taurica)*	9.0-15.5 (0.15-0.25)	
	Soilborne Diseases Circular spot, Southern blight *(Sclerotium rolfsii)* Pythium root rot (*Pythium aphanidermatum*) Rhizoctonia stem canker, Crown rot *(Rhizoctonia solani)*	0.40-0.80 fl oz/ 1000 row feet	For soilborne/seedling disease control, see directions and rates under **the SOILBORNE/SEEDLING DISEASE CONTROL** section.

Specific Use Restrictions:
1) Do not apply more than 123 fl oz of product/A/season.
2) Do not apply more than 2.0 lb ai/A/season of azoxystrobin-containing products.
3) Do not apply within 14 days of harvest (14-day PHI).

continued…

Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Watercress	Cercospora leaf spot (*Cercospora* spp.)	6.0-15.5 (0.10-0.25)	Quadris applications should begin prior to disease development and continue throughout the season on a 7- to 10-day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at specified rates. Do not apply more than two sequential applications of Quadris or other Group 11 fungicides before alternation with a fungicide that is not in Group 11.

Specific Use Restrictions:
1) Do not apply more than 93.2 fl oz of product/A/season.
2) Do not apply more than 1.5 lb ai/A/season of azoxystrobin-containing products.
3) Do not apply within 7 days of harvest (7-day PHI).

Crop	Target Diseases	Use Rate fl oz product/A (lb ai/A)	Remarks
Wild Rice	Brown spot (*Bipolaris oryzae or Bipolaris sorokiana*) Also known as *Helminthosporium oryzae* and *H. sativum* Stem rot *(Nakataea sigmoidea)*	12.5-15.5 (0.20-0.25)	Quadris should be applied prior to disease development. Applications may be made by ground, air, or chemigation. For aerial application, volumes should be 5-10 GPA. An adjuvant may be added at specified rates. For foliar diseases, apply Quadris prior to disease development. Apply during tillering, boot, early heading, or at initial sign of disease. Under heavy disease pressure and conditions favorable for disease development, a second application may be applied. Do not apply more than two sequential applications of Quadris or other Group 11 fungicide before alternation with a fungicide that is not in Group 11. Do not make more than two applications of Quadris or other Group 11 fungicide per season.

Specific Use Restrictions:

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

Quadris Flowable Fungicide Rate Conversion Chart

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

STORAGE AND DISPOSAL

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

Pesticide Storage

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

Pesticide Disposal

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

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.

continued...

STORAGE AND DISPOSAL *(continued)*

Container Handling [greater than 5 gallons]

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

Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

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

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For non-emergency (e.g., current product information) call
Syngenta Crop Protection at 1-800-334-9481.

Manufactured for:
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, North Carolina 27419-8300

SCP 1098B-L2R 0216
4063245

GROUP 11 FUNGICIDE

Quadris®

Flowable Fungicide

Broad spectrum fungicide for control of plant diseases

Active Ingredient:
Azoxystrobin: methyl (*E*)-2-{2-[6-(2-cyanophenoxy) pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate*. . . 22.9%

Other Ingredients:	77.1%
Total:	100.0%

Contains 2.08 lb of active ingredient per gallon
*IUPAC

See additional precautionary statements and directions for use inside booklet.

Reformulation is prohibited. See individual container labels for repackaging limitations.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-1098
EPA Est. 100-NE-001

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Manufactured for:
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, North Carolina 27419-8300

SCP 1098B-L2R 0216
4063245

(01) 0 07 02941 54358 4

1 gallon
Net Contents

KEEP OUT OF REACH OF CHILDREN.

CAUTION

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

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

FIRST AID

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

HOTLINE NUMBER: For 24-Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call **1-800-888-8372.**

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

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or regional office of the EPA.

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 washwater or rinsate.

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

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

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

STORAGE AND DISPOSAL

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