

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

JUN 2 2 2011

Ruhi Rezaaiyan Syngenta Crop Protection, Inc. P.O. Box 18300 Greensboro, NC 27419-8300

SUBJECT: Label Amendment; Quadris Top

EPA Reg. No. 100-1313; Decision: 426122

Your Submission Dated 12/18/2009 and revised label resubmissions

Dear Ms. Rezaaiyan:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as amended, to add new uses for carrot, chickpea, soybean, stone fruit, and strawberry, is acceptable provided that you:

Make the following changes to the label.

- a. On page 1 delete the following statement "A broad-spectrum fungicide for prevention and control of certain diseases in golf course turfgrass only."
- b. The listed 7-10 day minimum retreatment interval for chickpeas is not supported by the residue data. Labels for chickpea uses must be revised to specify a minimum retreatment interval of 14 days.
- c. Turnip greens can be added to the list of brassica leafy vegetables.
- d. The proposed 0.46 lb ai/A maximum seasonal application rate for soybeans is not supported by the residue data. Labels for soybean use must be revised to specify a maximum seasonal application rate of 0.22 lb ai/A. Therefore on page 36, change #1 in the "Specific Use Restrictions" to "Do not apply more than 26.5 fl.oz of Quadris Top per acre per season (0.22 lb. ai/A per season)". Change #2 below it from "0.46 lb" to "0.22 lb".
- e. On page 10 delete "Okra" from the list of crops permitting a 0-day PBI.
- f. On page 38 in the "Strawberry" section, you must delete the reference to "and other

low growing berries and the additional crops: bearberry, bilberry, cloudberry, muntries and partridgeberry.

As a condition of approval the following data must be submitted by 6/15/2013:

- 1. Additional storage stability data (860.1380) for the triazole metabolites in livestock commodities are required. Supporting storage stability data for residues of 1,2,4-triazole (1,2,4-T) are required to support the storage conditions (frozen) and intervals (up to 10 months) of livestock commodity samples collected for the cattle and poultry feeding studies that were evaluated.
 - 2. Additional soybean field trials (860.1500) conducted with the SC formulation at the maximum proposed use rate are required. These data may be field trials conducted with a 25% reduction in number or in the form of limited side-by-side trials (conducted at exaggerated rates) to compare residues resulting from the use of an EC formulation with that of the SC formulation.
 - 3. Additional EC and EW bridging data are required. As per the ChemSAC meeting on 1/27/2010, additional side-by-side field trials on grapes are required comparing difenoconazole residues resulting from applications of the EC and EW formulations. This should provide a more complete and robust dataset to serve as a surrogate for potential residual differences in/on the other new fruit and vegetables at issue. HED recommends three side-by-side trials on grapes comparing the EC and EW formulations using ground equipment conducted at the maximum use rate on grapes (5 applications at 0.12 lb ai/A/application, with a 6-day RTI), or at a slightly exaggerated rate (up to 1.25x or 0.15 lb ai/A/application), and collecting 2-4 samples at several intervals between 0-day and 21-days after the last application.
 - 4. Estuarine/marine invertebrate life cycle study (850.1350) prior study did not establish a definitive NOAEC.
 - 5. Avian acute oral study (850.2100) for the difenoconazole degradates CGA-71019 and CGA-142856.
 - 6. Conditional data requested in the HED risk assessment for these new uses which has been submitted, or which will be submitted under previous risk assessments/due dates must be found acceptable (ie. storage stability on crop matrices and processed commodities, confined rotational crop data reflecting phenyl-ring labeling, immunotoxicity, etc.).

Submit one copy of your final printed labeling before you release the product for shipment. If you have any questions regarding this correspondence, contact Rose Kearns of my

staff by phone at 703-305-5611 or via email at kearns.rosemary@epa.gov or myself at 703-308-9443 or via email at kish.tony@epa.gov.

Sincerely,

Tony Kish

Product Manager (22) Fungicide Branch

Registration Division (7505P)

Enclosure

GROUP 11 3 FUNGICIDES

Quadris Top™

Fungicide

[A broad-spectrum fungicide for prevention and control of certain diseases in golf course turfgrass only.]

 Active Ingredients:
 18.2%

 Azoxystrobin*
 18.2%

 Difenoconazole**
 11.4%

 Other Ingredients:
 70.4%

 Total:
 100.0%

Contains 1.67 lb. of azoxystrobin active ingredient and 1.05 lb. of difenoconazole active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

Net Contents

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-1313

ACC
with CC
In EPA

SCP 1313A

Under the Fe
Fungicide, an
as amended,
registered and
1 gallon
2.5 gallons
10 gallons
30 gallons
gallons

ACCEPTED with COMMENTS In EPA Letter Dated

JUN 2 2 2011
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

^{*}CAS No. 131860-33-8

^{**}CAS No. 119446-68-3

	FIRST AID
If swallowed	 Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
If on skin or clothing	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If in eyes	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
	ct container or label with you when calling a poison control center or
doctor, or going	
	HOT LINE NUMBER
	24-Hour Medical Emergency Assistance (Human or Animal) emical Emergency Assistance (Spill, Leak, Fire or Accident) Call

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

1-800-888-8372

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wear protective eyewear. 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.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F or G on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

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

User Safety Requirements

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

Engineering Control Statements

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.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- 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

Difenoconazole is toxic to fish, mammals and aquatic invertebrates. Drift and runoff may be hazardous to **estuarine/marine** organisms in water adjacent to treated area.

Azoxystrobin is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Azoxystrobin can be persistent for several months or longer. Azoxystrobin has degradation products which have properties similar to chemicals which are known to leach through soil to ground water under certain conditions as a result of agricultural use. This chemical may leach into ground water if used in areas where permeable, particularly where the water table is shallow.

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 may contaminate water through drift or spray in wind. This product has a potential for 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 for contamination of water from rainfall runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's potential to reach surface water.

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.

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.

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) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

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

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

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

[PRODUCT INFORMATION - FOOD CROP USES]

Quadris Top is a broad-spectrum product containing two fungicides. It has preventative, systemic and curative properties and is recommended for the control of many important plant diseases. Quadris Top provides excellent disease control of many leaf spots and powdery mildews. Quadris Top is applied as a foliar spray and can be used in block, alternating spray or tank-mix programs with other crop protection products. All applications should be made according to the use directions that follow.

[PRODUCT INFORMATION - GOLF COURSE TURF]

Quadris Top is a broad-spectrum product containing two fungicides. It has preventative, systemic and curative properties and is recommended for the control of many important turf diseases. Quadris Top provides excellent disease control of many leaf spots and powdery mildews. Quadris Top is applied as a foliar spray and can be used in block, alternating spray or tank-mix programs with other turf protection products. All applications should be made according to the use directions that follow.

[FOOD CROP - USE PRECAUTIONS AND RESTRICTIONS]

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

ATTENTION

Quadris Top 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 Top 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 Top 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.

[GOLF COURSE TURF - USE PRECAUTIONS AND RESTRICTIONS]

FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN TURF INJURY AND/OR POOR DISEASE CONTROL.

ATTENTION

DO NOT apply by air.

DO NOT apply through irrigation systems (chemigation)

DO NOT spray Quadris Top where spray drift may reach apple trees. Quadris Top is extremely phytotoxic to certain apple varieties.

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.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

[FOOD CROP - USE INFORMATION]

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, Syngenta recommends the use of a Chemical Producers and Distributors Association certified adjuvant unless otherwise restricted for a specific crop.

Efficacy: Under certain conditions conducive to extended infection periods, use another registered fungicide for additional applications if the maximum amount of Quadris Top has been used. If resistant isolates to Group 3 or 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 Management (IPM): Quadris Top 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. Consult your local agricultural authorities for additional IPM strategies established for your area. Quadris Top may be used in State Agricultural Extension advisory (disease forecasting)

programs which recommend application timing based on environmental factors favorable for disease development.

Resistance Management

GROUP 11 3 FUNGICIDES

Quadris Top contains two fungicides - azoxystrobin, a strobilurin fungicide in Group 11 and difenoconazole, a triazole fungicide in Group 3. 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 rotating 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. Quadris Top should not be alternated or tank mixed with any fungicide to which resistance has already developed.

As part of a resistance management strategy:

- Apply a maximum of 4 sprays during one crop cycle.
- Apply no more than 2 sequential applications unless otherwise stated in the crop section.
- When tank mixing or alternating, use an effective partner one that provides satisfactory disease control when used alone at the mixture rate.

Rotational Crops: Please see the following table for the crop rotational restrictions:

Rotational Crops	Planting Time From Last Quadris Top Application
Brassica (Cole) leafy vegetables	
Bulb vegetables	
Canola	
Carrots	
Cereals (wheat, barley, triticale)	
Chickpea	
Cotton	
Cucurbit vegetables	
Eggplant	0 days
Okra	
Pepper	
Potatoes	
Soybeans	
Strawberries	•
Sweet corn	
Tomatoes	
Tuberous & Corm vegetable subgroup	
Sugar beets	36 days
Buckwheat	
Millet	12 months
Oats	12 months
Rye	
All Other Crops Intended for Food and Feed	8 months

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 precautions regarding apple phytotoxicity.

Greenhouse Use: For resistance management, do not use Quadris Top for transplant production.

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.

[GOLF COURSE TURF - USE INFORMATION]

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

Adjuvants: When an adjuvant is to be used with this product, Syngenta recommends the use of a Chemical Producers and Distributors Association certified adjuvant.

Efficacy: Under certain conditions conducive to extended infection periods, use another registered fungicide for additional applications if the maximum amount of Quadris Top has been used. If resistant isolates to Group 3 or 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 Management (IPM): Quadris Top 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. Consult your local agricultural authorities for additional IPM strategies established for your area. Quadris Top may be used in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.

Resistance Management

GROUP 11 3 FUNGICIDES

Quadris Top contains two fungicides - azoxystrobin, a strobilurin fungicide in Group 11 and difenoconazole, a triazole fungicide in Group 3. 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 rotating 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. Quadris Top should not be alternated or tank mixed with any fungicide to which resistance has already developed.

Turfgrass Tolerance: Plant tolerance has been found to be acceptable for all turfgrass species 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 turf to ensure that a phytotoxic response will not occur as a result of application.

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.

[FOOD CROP - MIXING AND APPLICATION METHODS]

Spray Equipment

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 suction side of 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 Top 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 Top Alone (No Tank Mix)

- Add ½-¾ of the required amount of water to the spray or mixing tank.
- With the agitator running, add Quadris Top to the tank.
- Continue agitation while adding the remainder of the water.
- Begin application of the spray solution after Quadris Top has completely dispersed into the mix water.
- Maintain agitation until all of the mixture has been sprayed.

Quadris Top + Tank Mixtures: Quadris Top is usually compatible with all tank-mix partners listed on this label. To determine the physical compatibility of Quadris Top 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.

Tank Mixtures: All directions for use, crops/sites, use rates, dilution rates, precautions, and limitations which appear on the tank-mix product label must be observed. The label dosage for the tank-mix partner is not to be exceeded, and the most restrictive label precautions and limitations are to be followed.

Mixing in the Spray Tank

- Add ½-¾ 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 Top to the spray tank.
- Allow Quadris Top to completely disperse.
- Spray the mixture with the agitator running.

Application Instructions

Quadris Top 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.

Ground Application

- Apply in a minimum of 10 gals. of water per acre, unless specified otherwise.
- Do not apply through any ultra-low volume (ULV) spray system.
- Thorough coverage is necessary to provide good disease control.

Aerial Application

- Use only on crops where aerial applications are indicated.
- Thorough coverage is necessary to provide good disease control.
- Apply in a minimum of 5 gallons of water per acre unless specified otherwise.
- Avoid application under conditions when uniform coverage cannot be obtained or when excessive spray drift may occur.
- Do not apply directly to humans or animals.
- Do not apply through any ultra-low volume (ULV) spray system.

ATTENTION

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

DO NOT spray Quadris Top 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 Top 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.

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.

Operating Instructions

- The system must contain a functional check-valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent watersource contamination from backflow.
- 2. The pesticide injection pipeline must contain a functional, automatic, quickclosing check-valve to prevent the flow of fluid back toward the injection pump.
- 3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- 7. Do not apply when wind speed favors drift beyond the area intended for treatment.

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 Top through center pivot systems because of non-uniform application.

Determine the size of the area to be treated.

- Determine the time required to apply 1/2-1/2 inch of water over the area to be treated when the system and injection equipment are operated at normal pressures as recommended by the equipment manufacturer. When applying Quadris Top 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 Top required to treat the area covered by the irrigation system.
- Add the required amount of Quadris Top 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 Top 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 Top 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 Top through irrigation equipment use the lowest obtainable water volume while maintaining uniform distribution.
- Determine the amount of Quadris Top required to treat the area covered by the irrigation system.
- Add the required amount of Quadris Top 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 Top 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, quickclosing 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.

[GOLF COURSE TURF - MIXING AND APPLICATION METHODS]

Spray Equipment

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 suction side of 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 Top 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 Top Alone (No Tank Mix)

- Add ½-¾ of the required amount of water to the spray or mixing tank.
- With the agitator running, add Quadris Top to the tank.
- Continue agitation while adding the remainder of the water.
- Begin application of the spray solution after Quadris Top has completely dispersed into the mix water.
- Maintain agitation until all of the mixture has been sprayed.

Quadris Top + Tank Mixtures: Quadris Top is usually compatible with many tank-mix partners registered for use on turf. To determine the physical compatibility of Quadris Top 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.

Mixing in the Spray Tank

- Add ½-¾ 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 Top to the spray tank.
- Allow Quadris Top to completely disperse.
- Spray the mixture with the agitator running.

Application Instructions

DO NOT apply by air.

DO NOT apply through irrigation systems (chemigation).

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

Ground Application

- Apply in sufficient water to provide good coverage. Typical application volumes range from 30 to 450 gallons of spray per acre.
- Thorough coverage is necessary to provide good disease control.

[FOOD CROPS] SPECIFIC DIRECTIONS FOR USE

Crop	Target Diseases	Use Rate fl. oz. product/A	Remarks
Almonds	Alternaria leafspot (A. alternata) Anthracnose (Colletotrichum acutatum)	8 - 14	For blossom blight, begin applications at early bloom and continue through petal fall. Make no more than 2 sequential applications before alternating to another fungicide with a different mode of action.
	Blossom Blight (<i>Monilinia</i> spp.)		For all other diseases, begin applications prior to disease onset when conditions are conducive for disease. Apply Quadris Top on a 14- to 21-day schedule making no more than 2 sequential
	Leaf Blight (Seimatosporium lichenicola)		before alternating to another fungicide with a non-Qol (Group 11) mode of action.
	Leaf rust (Tranzschelia discolor)		If monitoring or history indicates the presence of Alternaria, apply 14 oz./A of Quadris Top in the late spring (mid April to beginning of May) and then repeat the treatment 2-3 weeks later.
	Scab (Venturia carpophilia)		Optional language if label has a rate range: If disease pressure is high, use the highest rate.
	Shot hole (Wilsonomyces carpophilus)		Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval.
	,		Optional language if label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.

Application: For best results, sufficient water volume must be used to provide thorough coverage. Quadris Top can be applied by either ground or aerial application. A minimum of 15 gal./A for ground applications is recommended. For aerial applications, a minimum of 10 gal./A of water is recommended.

- · Do not use with an adjuvant.
- Do not apply more than 56 fl. oz./A of Quadris Top per crop.
- Do not apply more than 0.46 lb. ai/A per crop of difenoconazole-containing products.
- Do not apply more than 1.5 lb. ai/A per crop of azoxystrobin-containing products.
- Do not apply within 28 days of harvest (28-day PHI).

Crop	Target Diseases	Use Rate fl. oz. product/A	Remarks
Brassica (Cole) Leafy Vegetables Broccoli Brussels	Alternaria Diseases (Alternaria spp.) Anthracnose (Colletotrichum higginsianum)	8 - 14	Begin applications prior to disease onset when conditions are conducive for disease. Apply Quadris Top on a 7- to 14-day schedule, making no more than 1 application before alternating to another fungicide with a non-QoI (Group 11) mode of action.
Sprouts Cabbage Cauliflower Collards Kale Mustard Greens	Cercospora Leaf Spot (C. brassicicola) Powdery mildew (Erysiphe polygoni)	·	Optional language if label has a rate range: If disease pressure is high, use the highest rate. Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval.
Including all cultivars and/or hybrids of these			Optional language if label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.
See additional crops below.			

Complete list of Brassica Leafy Vegetables: Broccoli; broccoli, Chinese (gai lon); broccoli raab (rapini); Brussels sprouts; cabbage; cabbage, Chinese (bok choy); cabbage, Chinese (napa); cabbage, Chinese mustard(gai choy); cauliflower; cavalo broccolo; collards; kale; kohlrabi; mizuna; mustard greens; mustard spinach; rape greens

Application: For best results, sufficient water volume must be used to provide thorough coverage. Quadris Top can be applied by either ground, chemigation, or aerial application. A minimum of 15 gal./A for ground applications is recommended. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.

Specific Use Restrictions:

- Do not apply more than 56 fl. oz./A of Quadris Top per season.
- Do not apply more than 0.46 lb. ai/A per season of difenoconazole-containing products.
- Do not apply more than 0.75 lb. ai/A per season of azoxystrobin-containing products.
- Do not apply within 1 day of harvest (1-day PHI).

· Service (

		Use Rate fl. oz.	
Crop	Target Diseases	product/A	Remarks
Bulb Vegetables Onion, Bulb Garlic Shallot	Botrytis leaf blight (B. squamosa) Cercospora Leaf Spot (C. duddiae)	8 - 14	Begin applications prior to disease onset when conditions are conducive for disease. Apply Quadris Top on a 7- to 14-day schedule, making no more than 1 application before alternating to another fungicide with a non-QoI (Group 11) mode of action.
Onion, Green Leek Welsh Onion	Leaf Blotch (Cladosporium alliicepae) Powdery Mildew (Leveillula taurica) Purple blotch (Alternaria porri) Stemphyllium leaf blight (S. vesicarium)		Optional language if label has a rate range: If disease pressure is high, use the highest rate. Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval. Optional language if label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.

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

Application: For best results, sufficient water volume must be used to provide thorough coverage. Quadris Top can be applied by either ground, chemigation, or aerial application. A minimum of 15 gal./A for ground applications is recommended. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.

- For green onions, do not apply more than 42 fl. oz./A of Quadris Top per season.
- For green onions, do not apply more than 0.34 lb. ai /A per season of difenoconazole-containing products.
- For dry bulb onions, do not apply more than 56 fl. oz./A per season of Quadris Top per crop.
- For dry bulb onions, do not apply more than 0.46 lb. ai/A per season of difenoconazole-containing products.
- For the bulb crop group, do not apply more than 1.5 lb. ai/A per season of azoxystrobin-containing products.
- Do not apply within 7 days of harvest (7-day PHI).

Crop	Target Diseases	Use Rate fl. oz. product/A	Remarks
Carrots	Cercospora leaf spot (Cercospora carotae) Alternaria leaf blight (Alternaria dauci) Powdery mildew	8-14	Begin applications prior to disease onset when conditions are conducive for disease. Apply Quadris Top on a 7-10 day schedule making no more than 2 sequential applications before alternating to another fungicide with a different mode of action. Optional language if label has a rate range: If
	(Erysiphe spp.) Southern blight (Sclerotium rolfsii)		disease pressure is high, use the highest rate. Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval.
			Optional language if label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate. For Southern blight (white mold) use 14 oz./A.

Application: For best results, sufficient water volume must be used to provide thorough coverage. Quadris Top can be applied by either ground, chemigation, or aerial application. A minimum of 15 gals./A for ground applications is recommended. For aerial applications a minimum of 10 gals./A of water is recommended. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.

- 1) Do not apply more than 56 fl. oz. of Quadris Top per acre per season.
- 2) Do not apply more than 0.46 lb. ai/A/season of a difenoconazole containing product.
- 3) Do not apply more than 2.0 lb. ai/A/season of a azoxystrobin containing product.
- 4) Do not apply within 7 days of harvest.

		Use Rate fl. oz.	
Crop	Target Diseases	product/A	Remarks
Chickpea (garbanzo bean)	Alternaria blight (A. alternata) Ascochyta blight (A. rabiei) Powdery mildew (Leveillula taurica) Rust (Uromyces cicerisarietini)	8-14	Begin applications prior to disease onset when conditions are conducive for disease. Apply Quadris Top on a 7-10 day schedule making no more than 2 sequential applications before alternating to another fungicide with a different mode of action. Optional language if label has a rate range: If disease pressure is high, use the highest rate. Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval. Optional language if label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.

Application: For best results, sufficient water volume must be used to provide thorough coverage. Quadris Top can be applied by either ground, chemigation, or aerial application. A minimum of 15 gals./A for ground applications is recommended. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.

- 1) Do not apply more than 56 fl. oz. of Quadris Top per acre per season.
- 2) Do not apply more than 0.46 lb. ai/A/season of a difenoconazole containing product.
- 3) Do not apply more than 1.5 lb. ai/A/season of an azoxystrobin containing product.
- 4) Do not apply within 14 days of harvest.

	T :	Use Rate	
		fl. oz.	·
Crop	Target Diseases	product/A	Remarks
Grapefruit Lemon Lime Orange (Sour and Sweet) Tangerine Including all cultivars and/or hybrids of these	Greasy spot (Mycosphaerella citri)	10 - 15.4	Quadris Top applications should begin prior to disease development and continue throughout the season on 7- to 21-day intervals following the resistance management guidelines. Applications may be made by ground or air. An adjuvant may be added at recommended rates. A horticultural spray oil should be used to improve control of greasy spot. Optional language if label has a rate range: If disease pressure is high, use the highest rate. Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval. Optional language if label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate. Make no more than 2 sequential applications before alternating to another fungicide with a non-Qol (Group 11) different mode of action. Do not make more than 4 applications of Quadris Top or other Group 11 fungicides per season.
	Alternaria Leaf and Fruit Spot (Alternaria citri) Anthracnose (Colletotrichum spp.) Black Spot (Guignardia citricarpa) Greasy Spot Rind blotch (Mycosphaerella citri) Melanose	10 - 15.4	Quadris Top applications should begin prior to disease development and continue throughout the season on 7- to 21-day intervals following the resistance management guidelines. Applications may be made by ground or air. An adjuvant may be added at recommended rates. A horticultural spray oil should be used to improve control of greasy spot. Optional language if label has a rate range: If disease pressure is high, use the highest rate. Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval. Optional language if label has a rate range and interval range: If disease pressure is high, use
	Melanose (Diaporthe citri)		interval range: If disease pressure is high, use the shortest interval and highest rate.

Post-Bloom Fruit
Drop (PFD)
(Colletotrichum
acutatum)

Phomopsis StemEnd Rot
(Phomopsis citrii)

Make no more than 2 sequential applications before alternating to another fungicide with a non-Qol (Group 11) different mode of action.
Do not make more than 4 applications of Quadris Top or other Group 11 fungicides per season.

Scab
(Elsinoe fawcettii)

Complete list of Citrus Fruits: Calamondin; citrus citron; citrus hybrids (includes chironja, tangelo, tangor); grapefruit; kumquat; lemon; lime; mandarin (tangerine); orange, sour; orange, sweet; pummelo; Satsuma mandarin

Application: For best results, sufficient water volume must be used to provide thorough coverage. Quadris Top can be applied by either ground or aerial application. A minimum of 15 gal./A for ground applications is recommended. For aerial applications a minimum of 10 gal./A of water is recommended.

- Do not use Quadris Top in citrus plant propagation nurseries.
- Do not apply more than 61.5 fl. oz./A of Quadris Top per season.
- Do not apply more than 0.5 lb. ai/A per crop of difenoconazole-containing products.
- Do not apply more than 1.5 lb. ai/A per crop of azoxystrobin-containing products.
- May be applied the day of harvest (0-day PHI).

		Use Rate fl. oz.	
Crop	Target Diseases	product/A	Remarks
Cucurbit Vegetables Cantaloupe	Alternaria Leaf Blight (A. cucumerina) Alternaria Leaf Spot	10 - 14	Begin applications prior to disease onset when conditions are conducive for disease. Apply Quadris Top on a 7- to 14-day schedule making no more than 1 application of a QoI containing
Cucumber Honeydew Muskmelon	(A. alternata) Anthracnose		fungicide before alternating to another fungicide with a different mode of action.
Watermelon Pumpkin Squash	(Colletotrichum orbiculare)		Optional language if label has a rate range: If disease pressure is high, use the highest rate.
Zucchini Including	Belly Rot (Rhizoctonia solani)		Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval.
cultivars and/or hybrids of these	Cercospora Leaf Spot (C. citrullina)		Optional language if label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.
See additional	Downy Mildew (Psuedoperonospora cubensis)		For belly rot control, the first application should be made at the 1- to 3-leaf crop stage with a
cucurbit crops below.	Gummy Stem Blight (<i>Didymella</i> bryoniae)		second application just prior to vine tip or 10-14 days later, whichever occurs first.
	Myrothecium Canker (<i>M. roridum</i>)		
	Phoma Blight (<i>P. exigua</i>)		
	Phyllosticta Leaf Spot (P. cucurbitacearum)		
	Plectosporium Blight (<i>P. tabacinum</i>)		
	Powdery Mildew (Sphaerotheca fuliginea, Erysiphe cichoracearum)		
	Septoria Leaf Blight (S. cucurbitacearum)		

Complete list of Cucurbit Vegetables: Chayote (fruit); Chinese waxgourd (Chinese preserving melon); citron melon; cucumber; gherkin; gourd, edible (includes hyotan, cucuzza, hechima, Chinese okra); *Momordica* spp. (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); muskmelon (includes cantaloupe); pumpkin; squash, summer; squash, winter (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); watermelon

Application: For best results, sufficient water volume must be used to provide thorough coverage. Quadris Top can be applied by either ground, chemigation, or aerial application. A minimum of 15 gal./A for ground applications is recommended (20 for gummy stem blight). 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 56 fl. oz./A of Quadris Top per season.
- Do not apply more than 0.46 lb. ai/A per season of difenoconazole-containing products.
- Do not apply more than 1.5 lb. ai/A per season of azoxystrobin-containing products.
- Do not apply within 1 day of harvest (1-day PHI).

Crop	Target Diseases	Use Rate fl. oz. product/A	Remarks
Filberts (Hazelnuts)	Eastern Filbert Blight (Anisogramma anomala)	12 - 14	Begin applications prior to disease onset when conditions are conducive for disease. Apply Quadris Top on a 14- to 21-day schedule making no more than 2 sequential applications before alternating to another fungicide with a non-Qol (Group 11) different mode of action. Optional language if label has a rate range: If disease pressure is high, use the highest rate. Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval. Optional language if label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.

- Do not use with an adjuvant.
- Do not apply more than 56 fl. oz./A of Quadris Top per crop.
- Do not apply more than 0.46 lb. ai/A per crop of difenoconazole-containing products.
- Do not apply more than 1.2 lbs. ai/A per crop of azoxystrobin-containing products.
- · Do not apply within 45 days of harvest (45-day PHI).

		Use Rate	
		fl. oz.	
Crop	Target Diseases	product/A	Remarks
Grapes (except Concord, Concord Seedless, and Thomcord. See Precaution under Remarks.)	Alternaria Rot (A. alternata) Angular Leaf Spot (Mycosphearella angulata) Anthracnose (Elsinoe ampelina) Black Rot (Guignarda bidwellii) Downy Mildew (Plasmopara viticola) Leaf Blight	10 - 14	For powdery mildew, begin at bud break and apply on a 10- to 21-day interval, making no more than 2 sequential applications before alternating to another fungicide with a non-Qol (Group 11) mode of action. For Phomopsis diseases, apply at bud break, before shoots are 0.5 inches in length, and ther again when shoots are 5-6 inches in length. For black rot, begin when shoot length is 1-3 inches and continue on a 10-day interval. For all other diseases, begin applications prior to disease onset when conditions are conducive for disease. Apply Quadris Top on a 10- to 14-day schedule, making no more than 2 sequential applications before alternating to another fungicide with a non-Qol (Group 11) mode of
	(Pseudocercospora		action
	vitis)		
·	Phomopsis Cane And Leaf Spot (P. viticola) Powdery Mildew (Uncinula necator)		Optional language if label has a rate range: If disease pressure is high, use the highest rate. Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval. Optional language if label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.
	Rotbrenner (Pseudopezicula tracheiphila)		PRECAUTION: Avoid rates of methylated or ethylated vegetable oil/organosilicone adjuvants over 0.125% with Quadris Top as grape leaf
	Septoria Leaf Spot (S. ampelina)		injury may occur. PRECAUTION: On <i>V. labrusca</i> , <i>V. labrusca</i> hybrids and other non-viniferea hybrids
	Suppression only: Botrytis bunch rot (B. cinerea)		where sensitivity is not known, the use of Quadris Top by itself or in tank mixtures wit materials that may increase uptake (adjuvants, foliar fertilizers) may result in lead burning or other phytotoxic effects.
			ATTENTION
			Quadris Top is extremely phytotoxic to certain apple varieties. Refer to caution in Use Precautions and Restrictions section of label

- Do not apply more than 56 fl. oz./A of Quadris Top per season.
- Do not apply more than 0.46 lb. ai/A per crop of difenoconazole-containing products.
- Do not apply more than 1.5 lb. ai/A per crop of azoxystrobin-containing products.
- Do not apply within 14 days of harvest (14-day PHI).

Crop	Target Diseases	Use Rate fl. oz. product/A	Remarks
Pecans	Downy Spot (Mycosphaerella caryigena) Liver Spot (Gnomonia caryae pv pecanae)	8 - 14	Begin applications prior to disease onset when conditions are conducive for disease. Apply Quadris Top on a 14- to 21-day schedule, making no more than 2 sequential applications before alternating to another fungicide with a non-Qol (Group 11) mode of action.
	Pecan Scab (Cladosporium caryigenum) Powdery Mildew (Microsphaera		Optional language if label has a rate range: If disease pressure is high, use the highest rate. Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval.
	vein Spot (Gnomomia nerviseda) Zonate Leaf Spot		Optional language if label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.
	(Grovesinia pyramidalis)		·

- Do not apply more than 56 fl. oz./A of Quadris Top per crop.
- Do not apply more than 0.46 lb. ai/A per crop of difenoconazole-containing products.
- Do not apply more than 1.2 lb. ai/A per crop of azoxystrobin-containing products.
- Do not apply within 45 days of harvest (45-day PHI).

Tayrot Diagona	fl. oz.	Domento
		Remarks
· · · · · · · · · · · · · · · · · · ·	8 - 14	Begin applications prior to disease development
(Colletotrichum	·	and continue throughout the season on a 7- to
spp.)		10-day interval. Make no more than 2
·		consecutive applications before switching to
Cercospora Leaf		another effective fungicide with a different mode
Spot		of action.
(C. capsici)		
		Optional language if label has a rate range: If
Grav Leaf Spot		disease pressure is high, use the highest rate.
· · ·		and and processing to ringing and the ringing of face.
• • •		Optional language if label has a single rate and
Corarin		interval range: If disease pressure is high, use
Powdeny Mildew		the shortest interval.
,		the shortest interval.
(Oldiopsis sicula)		Ontional language if label has a rate range and
		Optional language if label has a rate range and
		interval range: If disease pressure is high, use
		the shortest interval and highest rate.
		The addition of a spreading/penetrating type
		adjuvant may enhance efficacy.
	ercospora Leaf	Target Diseases Inthracnose (Colletotrichum spp.) Percospora Leaf pot (C. capsici) Paray Leaf Spot (Stemphyllium solani) Towdery Mildew

- Do not apply more than 55.3 fl. oz./A/season of Quadris Top.
- Do not apply more than 0.46 lb. ai/A/season of difenoconazole-containing products.
- Do not apply more than 1.0 lb. ai/A/season of azoxystrobin-containing products.
- May be applied the day of harvest (0-day PHI).

Crop	Target Diseases	Use Rate fl. oz. product/A	Remarks
Pistachios	Alternaria late blight (Alternaria spp.) Panicle and Shoot Blight (Botryosphaeria dothidea) Septoria leaf spot (S. pistaciarum)	10 - 14	Begin applications prior to disease onset when conditions are conducive for disease. Apply Quadris Top on a 14- to 21-day schedule, making no more than 2 sequential applications before alternating to another fungicide with a non-Qol (Group 11) mode of action. Optional language if label has a rate range: If disease pressure is high, use the highest rate. Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval. Optional language if label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.

Application: For best results, sufficient water volume must be used to provide thorough coverage. Quadris Top can be applied by either ground or aerial application. A minimum of 15 gal./A for ground applications is recommended. For aerial applications a minimum of 10 gal./A of water is recommended.

- Do not use with an adjuvant.
- Do not apply more than 56 fl. oz./A of Quadris Top per crop.
- Do not apply more than 0.46 lb. ai/A per crop of difenoconazole-containing products.
- Do not apply more than 1.5 lb. ai/A per crop of azoxystrobin-containing products.
- Do not apply within 14 days of harvest (14-day PHI).

Crop	Target Diseases	Use Rate fl. oz. product/A	Remarks
Potatoes	Black Dot (Colletotrichum coccodes)	8 - 14	Begin applications prior to disease development and continue throughout the season on a 7- to 14-day interval. Make no more than 2 consecutive applications before switching to
	Brown Spot (Alternaria alternata)	,	another effective fungicide with a different mode of action.
	Early Blight (Alternaria solani)		Optional language if label has a rate range: If disease pressure is high, use the highest rate.
	Powdery Mildew (Erysiphe cichoracearum)		Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval.
	Septoria Leaf Spot (S. lycopersici)		Optional language if label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.
			The addition of a spreading/penetrating type adjuvant may enhance efficacy.

Application: For best results, use sufficient water volume to provide thorough coverage. Quadris Top may be applied by ground, chemigation, or aerial application.

- Do not apply more than 55.3 fl. oz./A/season of Quadris Top.
- Do not apply more than 0.46 lb. ai/A/season of difenoconazole-containing products.
- Do not apply more than 2.0 lb. ai/A/season of azoxystrobin-containing products
- Do not apply within 14 days of harvest (14-day PHI).

		Use Rate fl. oz.	,
Crop	Target Diseases	product/A	Remarks
Soybean	Anthracnose (Colletotrichum truncatum) Alternaria leaf spot (Alternaria spp.) Brown spot (Septoria glycines) Cercospora blight and leaf spot (C. kikuchii) Frogeye leaf spot (Cercospora sojina)	8-14	Begin applications prior to disease onset when conditions are conducive for disease. Apply Quadris Top on a 7-10 day schedule making no more than 2 sequential applications before alternating to another fungicide with a different mode of action. Optional language if label has a rate range: If disease pressure is high, use the highest rate. Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval. Optional language if label has a rate range and interval range: If disease pressure is high, use
	Pod and stem blight (Diaporthe phaseolorum)		the shortest interval and highest rate.
	Powdery Mildew (<i>Microsphaera</i> <i>diffusa</i>)		

Application: For best results, sufficient water volume must be used to provide thorough coverage. Quadris Top can be applied by either ground, chemigation, or aerial application. May be applied in a minimum of 2 gpa by air. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.

- 1) Do not apply more than 56 fl. oz. of Quadris Top per acre per season.
- 2) Do not apply more than 0.46 lb. ai/A/season of a difenoconazole containing product.
- 3) Do not apply more than 1.5 lb. ai/A/season of an azoxystrobin containing product.
- 4) Do not apply within 14 days of harvest.
- 5) Do not feed soybean hay, forage and silage.

Crop	Target Diseases	Use Rate fl. oz. product/A	Remarks
Apricots Cherries, Sweet Cherries, Tart Nectarines Peaches Plums Plumcot Prunes And cultivars and/or hybrids of these.	Brown rot blossom blight and fruit rot (Monilinia fructicola, M. laxa) Scab (Cladosporium carpophilum) Alternaria spot and fruit rot (A. alternata) Anthracnose (Colletotrichum spp.) Leaf rust (Tranzschelia discolor) Powdery mildew (Sphaerotheca pannosa, Podosphaera clandestina) Shot hole (Wilsonomyces carpophilus)	8-14	For Brown rot blossom blight, begin applications at early bloom and continue through petal fall. For Brown rot on fruit, apply as needed a maximum of two sprays during the preharvest period up to the day of harvest (minimum of a 7-day retreatment interval). If high inoculum and severe disease conditions persist, apply a registered fungicide that is non-Group 11 or non-Group 9. Follow the Brown rot blossom blight schedule. Make additional applications on a 10-14 interval from the end of petal fall to harvest. Optional language if label has a rate range: If disease pressure is high, use the highest rate. Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval. Optional language if label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.

Application: For best results, sufficient water volume must be used to provide thorough coverage. Quadris Top can be applied by either ground or aerial application. Stone fruit diseases are most effectively controlled by ground applications. A minimum of 15 gals./A for ground applications is recommended. For aerial applications a minimum of 10 gals./A of water is recommended.

- 1) Do not apply more than 56 fl. oz. of Quadris Top per crop per season.
- 2) Do not apply more than 0.46 lb. ai/A/season of a difenoconazole containing product.
- 3) Do not apply more than 1.5 lb. ai/A/season of an azoxystrobin containing product.
- 4) Quadris Top may be applied on the day of harvest (0-day PHI).

Crop	Target Diseases	Use Rate fl. oz. product/A	Remarks
Strawberries and Other Low Growing Berries See additional crops below.	Anthracnose (Colletotrichum spp.) Leaf spot (Cercospora fragariae) Powdery mildew (Sphaerotheca macularis) Leaf rust (Phragmidium potentillae)	8-14	Begin applications prior to disease onset when conditions are conducive for disease. Apply Quadris Top on a 7-14 day schedule making no more than 2 sequential applications before alternating to another fungicide with a different mode of action. Optional language if label has a rate range: If disease pressure is high, use the highest rate. Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval. Optional language if label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.

Additional Low Growing Berries: Bearberry, Bilberry, Cloudberry, Muntries, Partridgeberry

Application: For best results, sufficient water volume must be used to provide thorough coverage. Quadris Top can be applied by ground, chemigation, or aerial application. A minimum of 15 gals./A for ground applications is recommended. For aerial applications a minimum of 10 gals./A of water is recommended. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.

- 1) Do not apply more than 56 fl. oz. of Quadris Top per crop per season.
- 2) Do not apply more than 0.46 lb. ai/A/season of a difenoconazole containing product.
- 3) Do not apply more than 1.0 lb. ai/A/season of an azoxystrobin containing product.
- 4) Quadris Top may be applied up to 0 day of harvest.

	·	Use Rate fl. oz.	
Crop	Target Diseases	product/A	Remarks
Sugar beets	Cercospora leafspot (C. beticola) Powdery mildew (Erysiphe polygoni)	10 - 14	Begin applications prior to disease development and continue throughout the season on a 10- to 21-day interval. Make no more than 2 consecutive applications before switching to another effective fungicide with a different mode of action. Optional language if label has a rate range: If disease pressure is high, use the highest rate. Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval. Optional language if label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate. The addition of a spreading/penetrating type adjuvant such as a non-ionic surfactant or crop oil concentrate or blend is recommended when applying by ground or air.

Application: For best results, use sufficient water volume to provide thorough coverage. Quadris Top may be applied by ground, chemigation, or aerial application.

- Do not apply more than 55.3 fl. oz./A/season of Quadris Top.
- Do not apply within 7 days of harvest (7-day PHI).
- Do not apply more than 2.0 lb. ai/A/season of azoxystrobin-containing products.
- Do not apply more than 0.46 lb. ai/A/season of difenoconazole-containing products.

		Use Rate	
C ====	Townst Discourse	fl. oz.	Demonstra
Crop Tomatoes	Target Diseases Anthracnose	7.5 - 8	Remarks
omatoes	(Colletotrichum	1.5-0	Begin applications prior to disease development and continue throughout the season on a 7- to
Tomatillo	spp.)		10-day interval. Make no more than 2
Torriatino	эрр./		consecutive applications before switching to
	Black Mold		another effective fungicide with a different mode
	(A. alternata)		of action.
	Early Blight		Optional language if label has a rate range: If
	(Alternaria solani)		disease pressure is high, use the highest rate.
	Gray Leaf Spot		Optional language if label has a single rate and
	(Stemphylium		interval range: If disease pressure is high, use
	botryosum)		the shortest interval.
	Leaf Mold		Optional language if label has a rate range and
	(Fulvia fulva)		interval range: If disease pressure is high, use the shortest interval and highest rate.
	Powdery Mildew		
	(Leveillula taurica)		Use of Adjuvants: Under certain weather conditions (particularly high temperatures)
	Septoria Leaf Spot		Quadris Top in combination with high rates of
	(S. lycopersici)		silicone-based or oil containing (petroleum or crop) additives or adjuvants may cause injury.
	Target Spot		Do not exceed 0.125% adjuvant (v/v). Consult a
	(Corynespora		Syngenta representative for more information
	cassiicola)		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 Top with any EC product.

Application: For best results, use sufficient water volume to provide thorough coverage. Quadris Top may be applied by ground, chemigation, or aerial application.

- Do not apply more than 47 fl. oz./A/season of Quadris Top.
- Do not apply until 21 days after transplanting or 35 days after seeding.
- Do not use on varieties in which the mature tomatoes will be less than 2 inches (such as cherry tomatoes).
- Do not apply more than 0.46 lb. ai/A/season of difenoconazole-containing products.
- Do not apply more than 0.6 lb. ai/A/season of azoxystrobin-containing products.
- May be applied the day of harvest (0-day PHI).

Crop	Target Diseases	Use Rate fl. oz. product/A	Remarks
Tree Nuts Beech Nut Brazil Nut Butternut Cashew Chestnut Chinquapin Hickory Macadamia Walnut, Black Walnut, English See specific Directions for Almonds Filberts Pecans Pistachios	Foliar Diseases	10 - 14	Begin applications prior to disease onset when conditions are conducive for disease. Apply Quadris Top on a 14- to 21-day schedule making no more than 2 sequential applications before alternating to another fungicide with a non-Qol (Group 11) mode of action. Optional language if label has a rate range: If disease pressure is high, use the highest rate. Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval. Optional language if label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate.

Application: For best results, sufficient water volume must be used to provide thorough coverage. Quadris Top can be applied by either ground or aerial application. A minimum of 15 gal./A for ground applications is recommended. For aerial applications a minimum of 10 gal./A of water is recommended.

- Do not use with an adjuvant.
- Do not apply more than 56 fl. oz./A of Quadris Top per crop.
- Do not apply more than 0.46 lb. ai/A per crop of difenoconazole-containing products.
- Do not apply more than 1.2 lbs. ai/A per crop of azoxystrobin-containing products.
- Do not apply within 45 days of harvest (45-day PHI).

Crop	Target Diseases	Use Rate fl. oz. product/A	Remarks
Vegetables, Tuberous and Corm Subgroup For listing of crops in this group, see * below. See Potatoes for specific use directions.	Ascochyta Leaf Spot (A. cynarae) Black Dot (Colletotrichum coccodes) Brown Spot (Alternaria alternata) Early Blight (Alternaria spp.) Powdery Mildew (Erysiphe cichoracearum) Rust (Uromyces betae, Puccinia helianthi) Septoria Leaf Spot	8 - 14	Begin applications prior to disease development and continue throughout the season on a 7- to 14-day interval. Make no more than 2 consecutive applications before switching to another effective fungicide with a different mode of action. Optional language if label has a rate range: If disease pressure is high, use the highest rate. Optional language if label has a single rate and interval range: If disease pressure is high, use the shortest interval. Optional language if label has a rate range and interval range: If disease pressure is high, use the shortest interval and highest rate. The addition of a spreading/penetrating type adjuvant may enhance efficacy.
	(Septoria spp.)		

^{*}Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Burdock, Canna, Cassava (bitter and sweet), Chayote (root), Chufa, Dasheen (Taro), Ginger, Leren, Sweet Potato, Tanier, Tumeric, Yam (bean and true).

Application: For best results, sufficient water volume must be used to provide thorough coverage. Quadris Top can be applied by either ground or aerial application. A minimum of 15 gal./A for ground applications is recommended. For aerial applications a minimum of 10 gal./A of water is recommended.

- Do not apply more than 55.3 fl. oz./A/season of Quadris Top.
- Do not apply more than 0.46 lb. ai/A/season of difenoconazole-containing products.
- Do not apply more than 2.0 lb. ai/A/season of azoxystrobin-containing products.
- Do not apply within 14 days of harvest (14-day PHI).

Quadris Top Rate Conversion Table for Food Use

Fl. oz. product/acre	Lb. ai azoxystrobin	Lb. ai difenoconazole 0.065	
7.5	0.09		
8.0	0.1	0.07	
10.0	0.13	0.08	
12.0	0.16	0.10	
14.0	0.18	0.12	
15.4	0.2	0.125	

[*GOLF COURSE TURF - SPECIFIC DIRECTIONS FOR USE]

Target Diseases	Use Rate (fl. oz. product per 1000 sq. ft.)	Use Rate (fl. oz. product per acre)	Application Interval (days)	Remarks*
Anthracnose (Colletotrichum cereale) (formerly known as C. graminicola)	0.25- 0.70 (7-21 ml)	11.0- 30.5 (322- 902 ml)	14-28	Use preventatively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
				The maximum interval of application for greens is 14 days.
Brown Patch and Large patch <i>Rhizoctonia solani)</i>	0.25- 0.45	11.0- 19.5	14	For higher cut cool season turfgrass and St. Augustinegrass and centipedegrass (fairways,
·	(7-13 ml)	(322- 580 ml)		lawns, sod farms, etc. above 0.375 inch in height). Apply when conditions are favorable for disease development.

				
	Use	Use		·
	Rate	Rate		
	(fl. oz.	(fl. oz.		
	product	product	Application	
	per 1000	per	Interval	·
Target Diseases	sq. ft.)	acre)	(days)	Remarks*
Brown Patch	0.45-	19.5-	14-28	For brown patch, apply when
(Rhizoctonia	0.70	30.5		conditions are favorable for
solani) and other				disease development.
Rhizoctonia (R.	(13-21	(580-	,	
spp.) diseases	ml)	902 ml)		For large patch of all warm-
such as Large	'	,	}	season turfgrasses, make 1 or 2
Patch, Zoysia				applications in fall prior to
Patch, Leaf and				infection or when conditions are
Sheath Spot		·		favorable for infection.
(R. zeae)				interable for infection.
(11. 2000)				For Zoysia patch, make 1 or 2
				applications approximately one
				month prior to zoysiagrass
				dormancy. Reapply 14 to 28
				days later.
				days later.
				For leaf and sheath spot (R.
				zeae), apply when conditions are
	ļ		٠	favorable for infection such as
				sequential days, periods of
	ļ			temperatures at or above 90°F.
		•		Curative control may necessitate
				several applications. Target
				spray applications at crown of
				turfgrass.
Brown Ring Patch	0.45-	19.5-	14-28	Apply when conditions are
Waitea circinata	0.70	30.5		favorable for disease
var. circinata				development.
	(13-21	(580-		
	ml)	902 ml)		
Cool Weather Brown	0.70	30.5	28	Make 1 or 2 applications in fall or
Patch, Yellow Patch	1			when conditions are favorable for
(Rhizoctonia	(21 ml)	(902 ml)		disease development.
cerealis)				
Dollar Spot	0.25-	11.0-	14-28	Apply preventatively when
(Sclerotinia	0.70	30.5		conditions are favorable for
homoeocarpa)				disease development. For non-
	(7-21 ml)	(322-		residential turf, if dollar spot is
	\ \ \ \	902 ml)		active, use higher rates and
		302 1111)		combine with Daconil.
L	<u> </u>		L	COMBINE WITH DACOING

	Haa	Hoo	<u> </u>	
	Use	Use	,	
	Rate	Rate		
	(fl. oz.	(fl. oz.		
	product	product	Application	
	per 1000	per	Interval	·
Target Diseases	sq. ft.)	acre)	(days)	Remarks*
Fairy Ring	0.45-	19.5-	14-28	Apply as soon as possible after
(<i>Lycoperdon</i> spp.,	0.70	30.5		fairy ring symptoms develop.
Agrocybe		·		Apply in 2-4 gal. water per 1,000
pediades, and	(13-21	(580-		sq. ft. Add the recommended
Bovistra plumbea)	ml)	902 ml)		rate of a wetting agent to the final
				spray. Severely damaged or thin
1				turf may require reseeding. Fairy
\ .	i			ring symptoms may take 2 to 3
				weeks to disappear following
				application. If area is
				hydrophobic, use wetting agents
				and irrigate prior to application(s)
				of Quadris Top. Reapplication
				after 28 days may be required in
			<u> </u>	some cases.
Microdochium Patch	0.45-	19.5-	14-28	Use preventatively. Begin
(Formerly known as	0.70	30.5		applications when conditions are
Fusarium Patch)				favorable for disease infection,
(Microdochium	(13-21	(580-		prior to disease symptom
nivale)	mi)	902 ml)		development.
**Gray Leaf Spot	0.45-	19.5-	14-21	Use Quadris Top in a preventive
(Pyricularia grisea)	0.70	30.5		disease control program. Begin
	(40.04	(500		applications before disease is
İ	(13-21	(580-		present and alternate with other
	ml)	902 ml)	,	fungicide chemistries that control
Loof Duct	0.45-	19.5-	14-28	gray leaf spot. Begin applications when
Leaf Rust	1	30.5	14-20	conditions are favorable for
Stem Rust	0.70	30.5		
Stripe Rust	(12.21	(E90		disease infection, prior to disease
(Puccinia spp.)	(13-21	(580-		symptom development.
1 = 4 0 = 4	ml)	902 ml)	44.04	Apply when conditions are
Leaf Spot	0.45-	19.5-	14-21	Apply when conditions are
(Bipolaris	0.70	30.5		favorable for disease
sorokiniana)	(12.21	(E90		development.
,	(13-21	(580-		
Malking Out	ml)	902 ml)	14.01	Apply when conditions are
Melting Out	0.45-	19.5-	14-21	Apply when conditions are
(Drechslera poae)	0.70	30.5		favorable for disease
	(12.21	(500		development
	(13-21	(580-		
Negratio Ding Cngt	ml) 0.70	902 ml) 30.5	14-28	Apply when conditions are
Necrotic Ring Spot	0.70	30.5	14-20	favorable for disease
(Ophiosphaerella	(21 ml)	(902 ml)		development.
korrae)	(21 ml)	(302 1111)	<u> </u>	uevelopinent.

	11	11	 	
	Use	Use		
	Rate	Rate		·
	(fl. oz.	(fl. oz.		
	product	product	Application	
	per 1000	per	Interval	·
Target Diseases	sq. ft.)	acre)	(days)	Remarks*
Pink Patch	0.45-	19.5-	14-28	Apply when conditions are
(Limonomyses	0.70	30.5		favorable for disease
roseipellis)				development.
1	(13-21	(580-		·
	ml)	902 ml)		·
Powdery Mildew	0.45-	19.5-	14-28	Begin applications when
(Erysiphe graminis)	0.70	30.5		conditions are favorable for
				disease infection, prior to disease
	(13-21	(580-		symptom development.
<u> </u>	ml)	902 ml)		
Red Thread	0.45-	19.5-	14-28	Apply when conditions are
(Laetisaria	0.70	30.5		favorable for disease
fuciformis)				development.
	(13-21	(580-	•	·
	ml)	902 ml)		
Southern Blight	0.45-	19.5-	14-28	Apply when conditions are
(Sclerotium rolfsii)	0.70	30.5		favorable for disease
	1			development.
	(13-21	(580-		
	ml)	902 ml)		
Summer Patch	0.45-	19.5-	14-28	Apply when conditions are
(Magnaporthe	0.70	30.5		favorable for disease
poae)				development. Initiate
	(13-21	(580-		applications when soil
	ml)	902 ml)		temperatures reach 65°F at a 2
				inch soil depth.
Take-all Patch	0.35	15.0	28	Begin applications when
(Gaeumannomyces				conditions are favorable for
graminis var.	(10 ml)	(451 ml)] .	disease infection prior to disease
avenae)	,	1		symptom development. Make
		·		two applications 28 days apart in
				the spring and two applications
1				28 days apart in the fall.

^{*}Do not exceed 0.50 gallons Quadris Top per acre per year (1.45 fl. oz. Quadris Top per 1000 square feet per year).

One gallon (128 fl. oz.) Quadris Top contains 1.67 lb. azoxystrobin and 1.05 lb. difenoconazole. **Do not apply more than 0.52 lb. difenoconazole per acre per year.**

^{**}Do not apply more than two sequential applications of Quadris Top for control of Gray Leaf Spot. For all other diseases when Gray Leaf Spot is not present, do not apply more than three sequential applications of Quadris Top.

One gallon = 3785 milliliters
One fluid ounce (fl. oz.) = 29.6 milliliters

[Quadris Top: Rate Conversion Chart for Turf]

Fl. oz. Product Per 1000 Sq. Ft.	Fi. oz. Product Per Acre	Milliliters (ml) Product Per 1000 Sq. Ft.	Milliliters (ml) Product Per Acre	Maximum yearly applications
0.25	11	7	322	5
0.35	15	10	451	4
0.45	19.5	13	580	3
0.70	30.5	20.5	902	2

STORAGE AND DISPOSAL

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

Pesticide Storage

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

Pesticide Disposal

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

Container Handling [5 gallons or less]

Non-refillable container. Do not reuse or refill this container. Offer for recycling if available.

Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use 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, or if allowed by state and local authorities by burning. If burned, stay out of smoke.

For Bulk and Minibulk Containers:

Container Handling

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 ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. 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, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Container Handling

Refillable container. Refill this container with Quadris Top only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the 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. If the container is damaged or leaking, or obsolete, contact SYNGENTA CROP PROTECTION, LLC at 1-800-888-8372.

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

Quadris Top™, the Syngenta logo, and the CP FRAME are trademarks of a Syngenta Group Company.

This product is protected by U.S. Patent Numbers 5,602,076 and 5,633,256.

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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 1313A

[NON-DETACHABLE CONTAINER LABEL]

GROUP 11 3 FUNGICIDES

Quadris Top™

Fungicide

[A broad-spectrum fungicide for prevention and control of certain diseases in golf course turfgrass only.]

Active Ingredients:

Azoxystrobin*	18.2%
Difonoconozolo**	11.4%
Other Ingredients:	70.4%
Total:	100.0%

^{*}CAS No. 131860-33-8

Contains 1.67 lb. of azoxystrobin active ingredient and 1.05 lb. of difenoconazole active ingredient per gallon.

See additional precautionary statements and directions for use inside booklet.

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. 100-1313 EPA Est.

Quadris Top™ and the Syngenta logo are trademarks of a Syngenta Group Company. This product is protected by U.S. Patent Numbers 5,602,076 and 5,633,256. ©201X Syngenta

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

SCP 1313A
_____quarts
1 gallon
2.5 gallons
_____gallons
Net Contents

^{**}CAS No.119446-68-3

KEEP OUT OF REACH OF CHILDREN.

CAUTION

FIRST AID

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. 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.

HOT LINE 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 swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wear protective eyewear. 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.

Environmental Hazards: Difenoconazole is toxic to fish, mammals and aquatic invertebrates. Drift and runoff may be hazardous to **estuarine/marine** organisms in water adjacent to treated area.

Azoxystrobin is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Azoxystrobin can be persistent for several months or longer. Azoxystrobin has degradation products which have properties similar to chemicals which are known to leach through soil to ground water under certain conditions as a result of agricultural use. This chemical may leach into ground water if used in areas where permeable, particularly where the water table is shallow.

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 may contaminate water through drift or spray in wind. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. 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 for contamination of water from rainfall runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's potential to reach surface water.

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.

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

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

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

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

Container Handling [5 gallons or less]: Non-refillable container. Do not reuse or refill this container. Offer for recycling if available.

Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store

rinsate for later use 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, or if allowed by state and local authorities by burning. If burned, stay out of smoke.

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

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