UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON DC 20460



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Fred Pearson Syngenta Crop Protection LLC P O Box 18300 Greensboro NC 27419

JUL 2 5 2012

Subject

Quadris Top EPA Reg No 100 1313 Revised Labeling to Delete Turf Uses EPA Decision Number 456989

Dear Mr Pearson

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

One copy of the label stamped Accepted 1s enclosed for your records This label supersedes all labels previously accepted for this product Please submit one copy of the final printed label before the product 1s released for shipment

If you have any questions please contact Erin Malone by phone at (703) 347 0253 or via email at malone erin@epa gov

Sincerely

Marcel Howard Acting Product Manager 20 Fungicide Branch Registration Division (7504P)

## GROUP 11 3 FUNGICIDES

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## Quadris Top™ Fungicide

Active Ingredients	
Azoxystrobin*	18 2%
Difenoconazole**	11 4%
Other Ingredients	70 4%
Total	100 0%

\*CAS No 131860 33 8 \*\*CAS No 119446 68 3

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

See additional precautionary statements and directions for use inside booklet

EPA Reg No 100 1313

**EPA Est** 

Product of

gallons

ACCEPTED JUL 2 5 2012 Under the Federal Insecticide Fungicide and Rodenticide Act as amended for the pesticide registered under EPA Reg No 100-1313

3rd Submissin 5 9100/191

	FIRST AID				
If swallowed	<ul> <li>Call a poison control center or doctor immediately for treatment advice</li> </ul>				
	Have person sip a glass of water if able to swallow				
	<ul> <li>Do not induce vomiting unless told to by a poison control center or doctor</li> </ul>				
	<ul> <li>Do not give anything to an unconscious person</li> </ul>				
If on skin or	Take off contaminated clothing				
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	<ul> <li>Hold eye open and rinse slowly and gently with water for 15 20 minutes</li> </ul>				
	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	t container or label with you when calling a poison control center or				
doctor or going f	doctor or going for treatment				
	HOT LINE NUMBER				
	4 Hour Medical Emergency Assistance (Human or Animal)				
Or Che	emical 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

#### **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 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

## PRODUCT INFORMATION

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

## 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

#### 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

**Use of Adjuvants** Under certain weather conditions (particularly high temperatures) Quadris Top in combination with high rates of silicone based or oil containing (petroleum or crop) additives or adjuvants may cause injury Do not exceed 0 125% adjuvant (v/v) Consult a Syngenta representative for more information concerning additives or adjuvants

A tank mixture with Dimethoate may cause crop injury

On fresh market tomatoes do not use adjuvants or tank mix Quadris Top with any EC product

**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 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	0 days
Eggplant	0 duy5
Pepper	
Potatoes	
Soybeans	
Strawberries	
Sweet corn	
Tomatoes	
Tuberous & Corm vegetable subgroup	
Sugar beets	36 days
Buckwheat	
Millet	12 months
Oats	
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 USE PRECAUTIONS AND RESTRICTIONS 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

## MIXING AND APPLICATION METHODS

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## 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  $\frac{1}{2}$   $\frac{2}{3}$  of the required amount of water to the spray or mixing tank
- With the agitator running add Quadris Top to the tank

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- 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  $\frac{1}{2}$   $\frac{2}{3}$  of the required amount of water to the spray or mixing tank
- With the agitator running add the tank mix partner(s) into the tank in the same order as described above
- Allow the material to completely dissolve and disperse into the mix water Continue agitation while adding the remainder of the water and Quadris 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 gal 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

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• Do not apply through any ultra low volume (ULV) spray system

## 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

## 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**

- 1 The system must contain a functional check valve vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow
- 2 The pesticide injection pipeline must contain a functional automatic quick closing check valve to prevent the flow of fluid back toward the injection pump
- 3 The pesticide injection pipeline must also contain a functional normally closed solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down
- 4 The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops
- 5 The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected
- 6 Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock
- 7 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 1/8 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 quick closing check valve to prevent the flow of fluid back toward the injection pump
- 4 The pesticide injection pipeline must contain a functional normally closed solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down
- 5 The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump when the water pressure decreases to the point where pesticide distribution is adversely affected
- 6 Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock
- 7 Do not apply when wind speed favors drift beyond the area intended for treatment

## SPECIFIC DIRECTIONS FOR USE

		Use Rate fl oz	
Crop	Target Diseases	product/A	Remarks
Almonds       Alternaria Leaf Spot (A alternata)         Anthracnose (Colletotrichum acutatum)         Blossom Blight (Monilinia spp)         Leaf Blight (Seimatosporium lichenicola)	(A alternata) Anthracnose (Colletotrichum	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
		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 applications before alternating to another fungicide with a non QoI (Group 11) mode of action	
	Leaf Rust ( <i>Tranzschelia</i> 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)	N N	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 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.

- 1) Do not use with an adjuvant
- 2) Do not apply more than 56 fl oz /A of Quadris Top per crop
- 3) Do not apply more than 0.46 lb a I /A per crop of difenoconazole containing products
- 4) Do not apply more than 1 5 lb a I /A per crop of azoxystrobin containing products
- 5) Do not apply within 28 days of harvest (28 day PHI)

Cree	Torret Diseases	Use Rate fl oz	Pomorko
Crop Brassica	Alternaria Diseases	product/A 8 14	Remarks Begin applications prior to disease onset when
(Cole) Leafy Vegetables	(Alternaria spp)		conditions are conducive for disease Apply Quadris Top on a 7 to 14 day schedule making no more than 1 application before alternating to
Broccolı Brussels Sprouts	(Colletotrichum higginsianum)		another fungicide with a non Qol (Group 11) mode of action
Cabbage Cauliflower Collards	Cercospora Leaf Spot ( <i>C brassicicola</i> )		Optional language if label has a rate range If disease pressure is high use the highest rate
Kale Mustard Greens	Powdery Mildew (Erysiphe polygoni)		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 turnip greens

**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 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.

- 1) Do not apply more than 56 fl oz /A of Quadris Top per season
- 2) Do not apply more than 0 46 lb a I /A per season of difenoconazole containing products
- 3) Do not apply more than 0 75 lb a I /A per season of azoxystrobin containing products
- 4) Do not apply within 1 day of harvest (1 day PHI)

<u></u>		Use Rate floz	
Crop	Target Diseases	product/A	Remarks
Bulb Vegetables Onion Bulb Garlic Shallot	Botrytis Leaf Blight ( <i>B squamosa</i> ) Cercospora Leaf Spot ( <i>C duddiae</i> )	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 Qol (Group 11) mode of action
Onion Green Leek Welsh Onion	Leaf Blotch ( <i>Cladosporium allii</i> <i>cepae</i> ) Powdery Mildew ( <i>Leveillula taurica</i> ) Purple Blotch ( <i>Alternaria porri</i> ) Stemphyllium Leaf Blight ( <i>S vesicarium</i> )		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 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 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.

- 1) For green onions do not apply more than 42 fl oz /A of Quadris Top per season
- 2) For green onions do not apply more than 0 34 lb a i /A per season of difenoconazole containing products
- 3) For dry bulb onions do not apply more than 56 fl oz /A per season of Quadris Top per crop
- 4) For dry bulb onions do not apply more than 0 46 lb a i /A per season of difenoconazole containing products
- 5) For the bulb crop group do not apply more than 1 5 lb a I /A per season of azoxystrobin containing products
- 6) Do not apply within 7 days of harvest (7 day PHI)

		Use Rate	
Crop	Target Diseases	fl oz product/A	Remarks
Carrots	Alternaria Leaf Blight ( <i>Alternaria dauci</i> ) Cercospora Leaf Spot ( <i>Cercospora carotae</i> ) Powdery Mildew ( <i>Erysiphe</i> spp ) Southern Blight ( <i>Sclerotium rolfsii</i> )	8 14	Begin applications prior to disease onset when conditions are conducive for disease Apply Quadris Top on a 7 to 10 day schedule making no more than 2 sequential applications before alternating to another fungicide with a different mode of action <i>Optional language if label has a rate range</i> If disease pressure is high use the highest rate <i>Optional language if label has a single rate and</i> <i>interval range</i> If disease pressure is high use the shortest interval <i>Optional language if label has a rate range and</i> <i>interval range</i> If disease pressure is high use the shortest interval <i>Optional language if label has a rate range and</i> <i>interval range</i> If disease pressure is high use the shortest interval 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 ground chemigation 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. 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 a I /A/season of a difenoconazole containing product
- 3) Do not apply more than 2 0 lb a I /A/season of an azoxystrobin containing product
- 4) Do not apply within 7 days of harvest (7 day PHI)

Сгор	Target Diseases	Use Rate floz product/A	Remarks
Chickpea (garbanzo bean)	Alternaria Blight ( <i>A alternata</i> ) Ascochyta Blight ( <i>A rabiei</i> ) Powdery Mildew ( <i>Leveillula taurica</i> ) Rust ( <i>Uromyces ciceris</i> <i>anetini</i> )	8 14	Begin applications prior to disease onset when conditions are conducive for disease Apply Quadris Top on a 14 day schedule making no more than 2 sequential applications before alternating to another fungicide with a different mode of action <i>Optional language if label has a rate range</i> If disease pressure is high use the highest rate <i>Optional language if label has a single rate and</i> <i>interval range</i> If disease pressure is high use the shortest interval <i>Optional language if label has a rate range and</i> <i>interval range</i> If disease pressure is high use the shortest interval <i>Optional language if label has a rate range and</i> <i>interval range</i> 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 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**

- 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 a I /A/season of a difenoconazole containing product
- 3) Do not apply more than 1 5 lb a I /A/season of an azoxystrobin containing product
- 4) Do not apply within 14 days of harvest (14 day PHI)

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		Use Rate fl oz	Pomorko
Crop Citrus Grapefruit Lemon Lime Orange (Sour and Sweet) Tangerine Including all cultivars and/or hybrids of these	Target Diseases         Greasy Spot         (Mycosphaerella         citn)	product/A 10 15 4	RemarksQuadris 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 spotOptional language if label has a rate range optional language if label has a single rate and interval range if disease pressure is high use the highest rateOptional language if label has a single rate and interval rangeOptional language if label has a rate range and interval rangeOptional language if label has a rate range and interval rangeOptional language if label has a rate range and interval rangeMake 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
	Alternaria Leaf and Fruit Spot <i>(Alternaria citn)</i> Anthracnose <i>(Colletotrichum</i> spp) Black Spot <i>(Guignardia citricarpa)</i> Greasy Spot Rind Blotch <i>(Mycosphaerella citri)</i> Melanose <i>(Diaporthe citn)</i>	10 15 4	seasonQuadris 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 spotOptional language if label has a rate range optional language if label has a single rate and interval rangeOptional language if label has a single rate and interval rangeOptional language if label has a rate rangeOptional language if label has a single rate and interval rangeOptional language if label has a rate rangeOptional language if label has a single rate and interval rangeOptional language if label has a rate range and interval rangeOptional language if label has a rate range and interval rangeOptional language if label has a rate range and interval rangeOptional language if label has a rate range and interval rangeOptional language if label has a rate range and interval rangeOptional language if label has a rate range and interval rangeOptional language if label has a rate range and interval rangeOptional language if label has a rate range and interval rangeOptional language if label has a rate range and interval rangeOptional language if label has a rate range and interval rangeOptional language if label has a rate range and interval rangeOptional language if label has a rate range and interval rangeOptional languageOptional languageOptional languageO

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Phomopsis Stem End Rot	Make no more than 2 sequential applications before alternating to another fungicide with a
(Phomopsis citrii)	non Qol (Group 11) different mode of action Do not make more than 4 applications of
Post Bloom Fruit Drop (PFD) <i>(Colletotrichum acutatum)</i>	Quadrıs Top or other Group 11 fungıcıdes 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 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.

- 1) Do not use Quadris Top in citrus plant propagation nurseries
- 2) Do not apply more than 61 5 fl oz /A of Quadris Top per season
- 3) Do not apply more than 0.5 lb a i /A per crop of difenoconazole containing products
- 4) Do not apply more than 1 5 lb a I /A per crop of azoxystrobin containing products
- 5) May be applied the day of harvest (0 day PHI)

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		Use Rate floz	
Crop	Target Diseases	product/A	Remarks
Cucurbit Vegetables	Alternarıa Leaf Blıght (A cucumerina)	10 14	Begin applications prior to disease onset when conditions are conducive for disease Apply Quadris Top on a 7 to 14 day schedule
	-		
	(P cucurbitacearum) Plectosporium Blight (P tabacinum)		
	Powdery Mildew (Sphaerotheca fuliginea Erysiphe cichoracearum)		
	Septoria Leaf Blight (S cucurbitacearum)		

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**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 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.

#### **Specific Use Restrictions**

1)Do not apply more than 56 fl oz /A of Quadris Top per season

2) Do not apply more than 0 46 lb a I /A per season of difenoconazole containing products

3)Do not apply more than 1 5 lb a i /A per season of azoxystrobin containing products

Do not apply within 1 day of harvest (1 day PHI)

Crop	Target Diseases	Use Rate floz product/A	Remarks
Filberts (Hazelnuts)	Eastern Filbert Blight ( <i>Anisogramma</i> <i>anomala</i> )	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 <i>Optional language if label has a rate range</i> If disease pressure is high use the highest rate <i>Optional language if label has a single rate and</i> <i>interval range</i> If disease pressure is high use the shortest interval <i>Optional language if label has a rate range and</i> <i>interval range</i> If disease pressure is high use the shortest interval

**Application** For best results sufficient water volume must be used to provide thorough coverage Quadris Top can be applied by 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.

- 1) Do not use with an adjuvant
- 2) Do not apply more than 56 fl oz /A of Quadris Top per crop
- 3) Do not apply more than 0 46 lb a I /A per crop of difenoconazole containing products
- 4) Do not apply more than 1 2 lb a I /A per crop of azoxystrobin containing products
- 5) Do not apply within 45 days of harvest (45 day PHI)

<u></u>		Use Rate	
Crop	Target Diseases	fl oz product/A	Remarks
Grapes (except Concord Concord Seedless and	Alternaria Rot (A alternata) Angular Leaf Spot (Mycosphearella angulata)	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
Thomcord See <b>Precaution</b> under	Anthracnose ( <i>Elsinoe ampelina</i> )		For Phomopsis diseases apply at bud break before shoots are 0 5 inches in length and then again when shoots are 5 6 inches in length
Remarks )	Black Rot (Guignarda bidwellii)		For black rot begin when shoot length is 1 3 inches and continue on a 10 day interval
	Downy Mildew (Plasmopara viticola)		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
	Leaf Blight ( <i>Pseudocercospora</i> <i>vitis</i> )		fungicide with a non Qol (Group 11) mode of action
	Phomopsis Cane and Leaf Spot ( <i>P viticola</i> )		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
	Powdery Mildew (Uncinula necator)		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)		<b>PRECAUTION</b> 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 V labrusca V labrusca hybrids and other non viniferea hybrids
	Suppression only Botrytis Bunch Rot ( <i>B cinerea</i> )		where sensitivity is not known the use of Quadris Top by itself or in tank mixtures with materials that may increase uptake (adjuvants foliar fertilizers) may result in leaf burning or other phytotoxic effects
			ATTENTION
			Quadris Top is extremely phytotoxic to certain apple varieties Refer to caution in <b>Use Precautions and Restrictions</b> section of label

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**Application** For best results sufficient water volume must be used to provide thorough coverage Quadris Top can be applied by 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.

- 1) Do not apply more than 56 fl oz /A of Quadris Top per season
- 2) Do not apply more than 0 46 lb a I /A per crop of difenoconazole containing products
- 3) Do not apply more than 1 5 lb a I /A per crop of azoxystrobin containing products
- 4) Do not apply within 14 days of harvest (14 day PHI)

		Use Rate floz	
Crop	Target Diseases	product/A	Remarks
Pecans	Downy Spot ( <i>Mycosphaerella</i> <i>caryigena</i> ) Liver Spot ( <i>Gnomonia caryae</i> <i>pv pecanae</i> )	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
			Optional language if label has a rate range If
	Pecan Scab ( <i>Cladosponum</i>		disease pressure is high use the highest rate
	caryıgenum)		Optional language if label has a single rate and interval range If disease pressure is high use
	Powdery Mildew ( <i>Microsphaera</i>		the shortest interval
	penicillata)		Optional language if label has a rate range and interval range If disease pressure is high use
	Vein Spot ( <i>Gnomomia</i>		the shortest interval and highest rate
	nerviseda)		
	Zonate Leaf Spot (Grovesinia pyramidalis)		

**Application** For best results sufficient water volume must be used to provide thorough coverage Quadris Top can be applied by 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.

- 1) Do not apply more than 56 fl oz /A of Quadris Top per crop
- 2) Do not apply more than 0 46 lb a I /A per crop of difenoconazole containing products
- 3) Do not apply more than 1 2 lb a I /A per crop of azoxystrobin containing products
- 4) Do not apply within 45 days of harvest (45 day PHI)

		Use Rate floz	
Crop	Target Diseases	product/A	Remarks
Peppers and Other Fruiting Vegetables	Anthracnose (Colletotrichum spp) Cercospora Leaf	8 14	Begin applications prior to disease development and continue throughout the season on a 7 to 10 day interval Make no more than 2 consecutive applications before switching to another effective fungicide with a different mode
Peppers Bell Pepper Non Bell Pepper Sweet Non Bell Eggplant See <b>Tomatoes</b> section for specific directions	Spot (C capsıcı) Gray Leaf Spot (Stemphyllıum solanı) Powdery Mıldew (Oıdıopsıs sıcula)		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
			The addition of a spreading/penetrating type adjuvant may enhance efficacy

**Application** For best results sufficient water volume must be used to provide thorough coverage Quadris Top can be applied by 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.

- 1) Do not apply more than 55 3 fl oz /A/season of Quadris Top
- 2) Do not apply more than 0 46 lb a I /A/season of difenoconazole containing products
- 3) Do not apply more than 1 0 lb a I /A/season of azoxystrobin containing products
- 4) May be applied the day of harvest (0 day PHI)

Crop	Target Diseases	Use Rate floz product/A	Remarks
Pistachios	Alternaria Late Blight ( <i>Alternaria</i> spp ) Panicle and Shoot Blight ( <i>Botryosphaeria</i> <i>dothidea</i> ) Septoria Leaf Spot ( <i>S pistaciarum</i> )	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 <i>Optional language if label has a rate range</i> If disease pressure is high use the highest rate <i>Optional language if label has a single rate and</i> <i>interval range</i> If disease pressure is high use the shortest interval <i>Optional language if label has a rate range and</i> <i>interval range</i> If disease pressure is high use the shortest interval

**Application** For best results sufficient water volume must be used to provide thorough coverage Quadris Top can be applied by 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.

#### Specific Use Restrictions

- 1) Do not use with an adjuvant
- 2) Do not apply more than 56 fl oz /A of Quadris Top per crop
- 3) Do not apply more than 0 46 lb a I /A per crop of difenoconazole containing products
- 4) Do not apply more than 1 5 lb a I /A per crop of azoxystrobin containing products
- 5) Do not apply within 14 days of harvest (14 day PHI)

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Crop		Use Rate fl oz	<b>_</b>
	Target Diseases	product/A	Remarks
Potatoes	Black Dot	8 14	Begin applications prior to disease development
	(Colletotrichum coccodes)		and continue throughout the season on a 7 to 14 day interval Make no more than 2
	coccodes)		consecutive applications before switching to
	Brown Spot		another effective fungicide with a different mode
	(Alternaria		of action
	alternata)		
			Optional language if label has a rate range If
	Early Blight		disease pressure is high use the highest rate
	(Alternarıa solanı)		
			Optional language if label has a single rate and
	Powdery Mildew	1	interval range If disease pressure is high use
	(Erysiphe		the shortest interval
	cichoracearum)		Ontronal language of label has a rate range and
	Septoria Leaf Spot		Optional language if label has a rate range and interval range If disease pressure is high use
	(S lycopersici)	1	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

#### Specific Use Restrictions

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- 1) Do not apply more than 55 3 fl oz /A/season of Quadris Top
- 2) Do not apply more than 0 46 lb a 1 /A/season of difenoconazole containing products
- 3) Do not apply more than 2 0 lb a I /A/season of azoxystrobin containing products
- 4) Do not apply within 14 days of harvest (14 day PHI)

		Use Rate fl oz	
Crop	Target Diseases	product/A	Remarks
Soybean	<ul> <li>Aerial Blight (<i>Rhizoctonia solani</i>)</li> <li>Alternaria Leaf Spot (<i>Alternana</i> spp )</li> <li>Anthracnose (<i>Colletotrichum</i> <i>truncatum</i>)</li> <li>Brown Spot (<i>Septoria glycines</i>)</li> <li>Cercospora Blight and Leaf Spot (<i>C kikuchii</i>)</li> <li>Frogeye Leaf Spot (<i>Cercospora sojina</i>)</li> <li>Pod and Stem Blight (<i>Diaporthe</i> <i>phaseolorum</i>)</li> <li>Powdery Mildew (<i>Microsphaera</i> <i>diffusa</i>)</li> <li>Rust (<i>Phakopsora spp</i>)</li> </ul>	8 14	Begin applications prior to disease onset when conditions are conducive for disease Apply Quadris Top on a 7 to 10 day schedule making no more than 2 sequential applications before alternating to another fungicide with a different mode of action <i>Optional language if label has a rate range</i> If disease pressure is high use the highest rate <i>Optional language if label has a single rate and</i> <i>interval range</i> If disease pressure is high use the shortest interval <i>Optional language if label has a rate range and</i> <i>interval range</i> If disease pressure is high use the shortest interval <i>Optional language if label has a rate range and</i> <i>interval range</i> 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 ground chemigation or aerial application. May be applied in a minimum of 2 gallons per acre 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 26 5 fl oz of Quadris Top per acre per season (0 22 lb a i /A per season)
- 2) Do not apply more than 0 22 lb a I /A/season of a difenoconazole containing product
- 3) Do not apply more than 1 5 lb a I /A/season of an azoxystrobin containing product
- 4) Do not feed soybean hay forage and silage
- 5) Do not apply within 14 days of harvest (14 day PHI)

		Use Rate	
Crop	Target Diseases	fl oz product/A	Remarks
Stone Fruit	Alternaria Spot and	8 14	For brown rot blossom blight begin applications
Apricots	Fruit Rot		at early bloom and continue through petal fall
Cherries	(A alternata)		
Sweet	Anthracnose		For brown rot on fruit apply as needed a
Cherries	(Colletotrichum		maximum of two sprays during the pre harvest
Tart	spp)		period up to the day of harvest (minimum of a 7
Nectarines	Brown Rot Blossom		day retreatment interval) If high inoculum and
Peaches	Blight and Fruit Rot		severe disease conditions persist apply a
Plums	(Monilinia fructicola		registered fungicide that is non Group 11 or
Plumcot	M laxa)		non Group 9
Prunes	Leaf Rust		
	(Tranzschelia		Follow the brown rot biossom blight schedule
Including all	discolor)		Make additional applications on a 10 to 14 day
cultivars	Powdery Mildew		interval from the end of petal fall to harvest
and/or	(Sphaerotheca		Optional language if label has a rate range If
hybrids of these	pannosa Podosphaera		disease pressure is high use the highest rate
lilese	clandestina)		disease pressure is high use the highest rate
	Scab		Optional language if label has a single rate and
	(Cladosporium		interval range If disease pressure is high use
	carpophilum)		the shortest interval
	Shot Hole		
	(Wilsonomyces		Optional language if label has a rate range and
	carpophilus)		<i>interval range</i> 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 ground or aerial application. Stone fruit diseases are most effectively controlled by ground applications. A minimum of 15 gal /A for ground applications is recommended For aerial applications a minimum of 10 gal /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 a I /A/season of a difenoconazole containing product
- 3) Do not apply more than 1 5 lb a I /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 fi oz product/A	Remarks
Strawberries	Anthracnose ( <i>Colletotrichum</i> spp) Leaf Rust ( <i>Phragmidium</i> <i>potentillae</i> ) Leaf Spot ( <i>Cercospora</i> <i>fragariae</i> ) Powdery Mildew ( <i>Sphaerotheca</i> <i>macularis</i> )	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 2 sequential applications before alternating to another fungicide with a different mode of action <i>Optional language if label has a rate range</i> If disease pressure is high use the highest rate <i>Optional language if label has a single rate and</i> <i>interval range</i> If disease pressure is high use the shortest interval <i>Optional language if label has a rate range and</i> <i>interval range</i> If disease pressure is high use the shortest interval

**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 gal /A for ground applications is recommended. For aerial applications a minimum of 10 gal /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 a I /A/season of a difenoconazole containing product
- 3) Do not apply more than 1 0 lb a I /A/season of an azoxystrobin containing product
- 4) Quadris Top may be applied up to 0 day of harvest (0 day PHI)

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		Use Rate floz	
Crop	Target Diseases	product/A	Remarks
Sugar beets	Cercospora Leaf Spot ( <i>C beticola</i> ) Powdery Mildew ( <i>Erysiphe polygoni</i> )	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 <i>Optional language if label has a rate range</i> If disease pressure is high use the highest rate <i>Optional language if label has a single rate and</i> <i>interval range</i> If disease pressure is high use the shortest interval <i>Optional language if label has a rate range and</i> <i>interval range</i> If disease pressure is high use the shortest interval <i>Optional language if label has a rate range and</i> <i>interval range</i> 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

- 1) Do not apply more than 55 3 fl oz /A/season of Quadris Top
- 2) Do not apply more than 2 0 lb a I /A/season of azoxystrobin containing products
- 3) Do not apply more than 0 46 lb a 1 /A/season of difenoconazole containing products
- 4) Do not apply within 7 days of harvest (7 day PHI)

•	Turnet Durana	Use Rate fl oz	
Crop Tomatoes Tomatillo	Target DiseasesAnthracnose (Colletotrichum spp)Black Mold (A alternata)Early Blight (Alternaria solani)Gray Leaf Spot (Stemphylium botryosum)Leaf Mold (Fulvia fulva)Powdery Mildew (Leveillula taurica)Septoria Leaf Spot (S lycopersici)Target Spot 	7 5 8	RemarksBegin applications prior to disease development and continue throughout the season on a 7 to 10 day interval Make no more than 2 consecutive applications before switching to another effective fungicide with a different mode of actionOptional language if label has a rate range lf disease pressure is high use the highest rateOptional language if label has a single rate and interval range lf disease pressure is high use the shortest intervalOptional language if label has a single rate and interval range lf disease pressure is high use the shortest intervalOptional language if label has a rate range and interval range lf disease pressure is high use the shortest intervalUse of AdjuvantsUnder certain weather conditions (particularly high temperatures) Quadris Top in combination with high rates of silicone based or oil containing (petroleum or crop) additives or adjuvants may cause injury Do not exceed 0 125% adjuvant (v/v) Consult a Syngenta representative for more information concerning additives or adjuvantsA tank mixture with Dimethoate may cause crop injuryOn freeh market tematoes, do not use adjuvants
			On fresh market tomatoes do not use adjuvant 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

- 1) Do not apply more than 47 fl oz /A/season of Quadris Top
- 2) Do not apply until 21 days after transplanting or 35 days after seeding
- 3) Do not apply more than 0 46 lb a I /A/season of difenoconazole containing products
- 4) Do not apply more than 0.6 lb a I /A/season of azoxystrobin containing products
- 5) May be applied the day of harvest (0 day PHI)

<u> , , , , , , , , , , , , , , , , </u>		Use Rate	
		floz	
Crop	Target Diseases	product/A	Remarks
Crop Tree Nuts Beechnut Brazil Nut Butternut Cashew Chestnut Chinquapin Hickory Macadamia Walnut Black Walnut English See specific Directions for Almonds Filberts Pecans	Target Diseases Foliar Diseases	10 14	RemarksBegin 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 actionOptional language if label has a rate range optional language if label has a single rate and interval rangeOptional language if label has a single rate and interval rangeOptional language if label has a rate range the shortest intervalOptional language if label has a rate range if disease pressure is high use the shortest intervalOptional language if label has a rate range and interval rangeIf disease pressure is high use the shortest intervalOptional language if label has a rate range and interval rangeIf disease pressure is high use the shortest interval
Pistachios			

**Application** For best results sufficient water volume must be used to provide thorough coverage Quadris Top can be applied by 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.

- 1) Do not use with an adjuvant
- 2) Do not apply more than 56 fl oz /A of Quadris Top per crop
- 3) Do not apply more than 0 46 lb a I /A per crop of difenoconazole containing products
- 4) Do not apply more than 1 2 lb a I /A per crop of azoxystrobin containing products
- 5) Do not apply within 45 days of harvest (45 day PHI)

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

- 1) Do not apply more than 55 3 fl oz /A/season of Quadris Top
- 2) Do not apply more than 0 46 lb a I /A/season of difenoconazole containing products
- 3) Do not apply more than 2 0 lb a I /A/season of azoxystrobin containing products
- 4) Do not apply within 14 days of harvest (14 day PHI)

## Quadris Top Rate Conversion Table for Food Use

FI oz product/acre	Lb aı azoxystrobın	Lb ai difenoconazole
75	0 09	0 065
80	0 1	0 07
10 0	0 13	0 08
12 0	0 16	0 10
14 0	0 18	0 12
15 4	02	0 125

#### 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

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**

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 ALLIANCE FRAME the SYNGENTA Logo and the PURPOSE ICON 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

#### Quadrıs Top™ Fungıcıde

Other Ingredients Total	
Difenoconazole**	11 4%
Active Ingredients Azoxystrobin*	18 2%

\*CAS No 131860 33 8 \*\*CAS No 119446 68 3

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

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

\_\_\_\_ gallons Net Contents

FIRST AID		
If swallowed	Call a poison control center or doctor immediately for treatment     advice	
	<ul> <li>Have person sip a glass of water if able to swallow</li> </ul>	
	<ul> <li>Do not induce vomiting unless told to by a poison control center or doctor</li> </ul>	
	<ul> <li>Do not give anything to an unconscious person</li> </ul>	
If on skin or	Take off contaminated clothing	
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	<ul> <li>Hold eye open and rinse slowly and gently with water for 15 20 minutes</li> </ul>	
	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 produc	t container or label with you when calling a poison control center or	
doctor or going	for treatment	
	HOT LINE NUMBER	
	4 Hour Medical Emergency Assistance (Human or Animal)	
Or Che	emical 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

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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

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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 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

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

Quadris Top<sup>™</sup> 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

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