



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Ms. Adora Clark
Syngenta Crop Protection, Inc.
P.O. Box 18300
Greensboro, NC 27419

MAY 6 2008

Dear Ms Clark:

Subject: Quadris Xtra Fungicide
EPA Reg. No. 100-1225
Your Revised Label of February 8, 2008

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is conditionally accepted provided that the following revision is made to the label:

Update the Warranty Statement to conform to that for Tilt, EPA Reg. No. 100-617, accepted May 25, 2007.

Submit one copy of the final printed label before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Mary L Waller
Product Manager 21
Fungicide Branch
Registration Division (750)

Enclosures
7505P:CGable:cg:5/1/08

CONTAINER/BASE LABEL

GROUP 3 11 FUNGICIDES

Quadris Xtra™

Fungicide

Broad spectrum fungicide for control of plant diseases

Active Ingredients:

Azoxystrobin (CAS No. 131860-33-8)	18.2%
Cyproconazole (CAS No. 94361-06-5)	7.3%
Other Ingredients:	74.5%
Total:	100.0%

Quadris Xtra is a 280SC formulation that contains 0.67 lb. a.i. cyproconazole and 1.67 lb. a.i. azoxystrobin per gallon.

ACCEPTED with COMMENTS In EPA Letter Dated:

MAY 6 2008

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

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use inside booklet. 100-1225

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- 1225EPA Est. xxxxxx

_____ gallons
Net Contents

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

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

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth, if possible. • Call a poison control center or doctor for future 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	

Environmental Hazards

Azoxystrobin can be persistent for several months or longer. Cyproconazole and degradation products of azoxystrobin demonstrates the properties and characteristics associated with chemicals which are known to leach through soil to ground water under certain conditions as a result of agricultural use. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow may result in groundwater contamination.

Azoxystrobin is toxic to freshwater, estuarine/marine fish and aquatic invertebrates. For Terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water or rinsate.

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

Chemigation: Refer to supplemental labeling in attached booklet for use directions on chemigation. Do not apply this product through any type of irrigation system unless the supplemental labeling is followed.

STORAGE AND DISPOSAL

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

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

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

Container Disposal: Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or alternatives allowed by State and local authorities.

For Bulk and Mini Bulk Containers

Container Disposal: Reseal container and offer for reconditioning, or triple rinse (or equivalent) and offer for recycling or reconditioning, or clean in accordance with manufacturer's instructions.

Container Precautions: Before refilling, inspect thoroughly for damage, such as cracks, punctures, bulges, dents, abrasions and damaged or worn threads on closure devices.

Refill Only With Quadris Xtra. The contents of this container cannot be completely removed by cleaning. Refilling with materials other than Quadris Xtra will result in contamination and may weaken container.

After filling and before transporting, check for leaks.

Do not refill or transport damaged or leaking container.

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

Quadris Xtra™ and the Syngenta logo are trademarks of a Syngenta Group Company

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Syngenta Crop Protection, Inc.
Greensboro, North Carolina 27409
www.syngenta-us.com

QUADRIS XTRA 100-1225 TOLERANCE-D-CLEAN-REV - df - 2/8/08
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BOOKLET

GROUP 3 FUNGICIDES

Quadris Xtra™

Fungicide

Broad-spectrum fungicide for control of plant diseases

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KEEP OUT OF REACH OF CHILDREN.

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See additional precautionary statements and directions for use inside booklet.

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EPA Est. xxxxxx

_____ gallons
Net Contents

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PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

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Personal Protective Equipment (PPE)

Some materials that are chemically resistant to this product are listed below. If you want more options follow the instructions for Category A on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

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

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, 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

Azoxystrobin can be persistent for several months or longer. Cyproconazole and some degradation products of azoxystrobin demonstrates the properties and characteristics associated with chemicals which are known to leach through soil to ground water under certain conditions as a result of agricultural use. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow may result in groundwater contamination.

Azoxystrobin is toxic to freshwater, estuarine/marine fish and aquatic invertebrates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water 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 should 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, INC. or Seller. All such risks shall be assumed by Buyer and User, and 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. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **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.

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

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

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 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 material such as polyvinyl chloride, nitrile rubber or butyl rubber
- Shoes plus socks

GENERAL INFORMATION

Quadris Xtra Fungicide is a broad spectrum, preventative fungicide with systemic and curative properties recommended for the control of many important plant diseases. Quadris Xtra may be applied as a foliar spray in alternating spray programs or in tank mixes with other crop protection products. All applications should be made according to the use directions that follow.

GENERAL USE PRECAUTIONS

Do not use in nurseries, greenhouses or landscape plantings.

Under certain conditions conducive to extended infection periods, use another registered fungicide for additional applications if the maximum amount of product has been applied.

The active ingredient(s) in this product may have effects on federally listed threatened and endangered species or critical habitat in some counties. When using this product, you must follow the measures contained in the County Bulletin for the county in which you are applying the pesticide. To determine whether your County has a Bulletin consult <http://www.epa.gov/espp/usa-map.htm>. Bulletins also may be available from local pesticide dealers, extension offices, or State pesticide agencies.

ROTATIONAL CROPS

Soybeans, corn, or wheat may be replanted immediately, if crop is lost. Cereal grains other than wheat can be planted 180 days after last application. Cotton can be planted 180 days after last application. All other crops (including leafy vegetables) can be planted 270 days after last application.

PHYTOTOXICITY

Quadris Xtra demonstrates some phytotoxic effects when mixed with products that are formulated as ECs. These effects are enhanced if applications are made under cool, cloudy conditions and these conditions remain for several days following application. In addition, adjuvants that contain some form of silicone can contribute to phytotoxicity. Under certain environmental conditions, tank mixes of Quadris Xtra plus herbicides and/or fertilizers may cause crop injury.

ATTENTION

Quadris Xtra 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 Xtra 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 Xtra 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.

INTEGRATED PEST (DISEASE) MANAGEMENT

Quadris Xtra 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. The **SPECIFIC USE DIRECTIONS** section in this label identifies specific IPM recommendations for each crop. Consult your local agricultural authorities for additional IPM strategies established for your area. Alto may be used in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.

RESISTANCE MANAGEMENT

GROUP 3 11 FUNGICIDES

Quadris Xtra Fungicide is a mixture of Group 3 (cyproconazole) and Group 11 (azoxystrobin) fungicides. Quadris Xtra has two modes of action: (1) DMI (demethylation inhibitor of sterol biosynthesis) [Group 3], and (2) inhibitor of the Qo (quinone outside) site within the electron transport system (Qol) [Group 11]. Fungal pathogens can develop resistance to products with the same mode of action when used repeatedly. Because resistance development cannot be predicted, use of this product should conform to resistance management strategies established for the crop and use area. Consult your local or State agricultural authorities for resistance management strategies that are complementary to those in this label. Resistance management strategies may include rotating and/or tank mixing with products having different modes of action or limiting the total number of applications per season. Syngenta Crop Protection encourages responsible resistance management to ensure effective long-term control of the fungal diseases on this label.

Follow specific crop recommendations that limit the total number of sprays on a crop and the required alternations with fungicides from other resistance management groups. In situations requiring multiple sprays (more than two), develop season long spray programs for Group 11 (Qol) fungicides. The program should meet the goal of no more than 1/3 of the total sprays per season, when a Group 11 fungicide is used as a solo product, or 1/2 the total sprays when a Group 11 fungicide is used in a mixture. Programs that include both solo Group 11 products and/or mixes containing Group 11 products should be no more than 1/2 the total sprays.

Quadris Xtra should not be alternated or tank mixed with any fungicide to which resistance has already developed.

SPRAY EQUIPMENT

Equip sprayers with nozzles that provide accurate and uniform application. Be certain that nozzles are the same size and uniformly spaced across the boom. Calibrate sprayer before use.

Use a pump with capacity to: (1) maintain at least 35-40 psi at nozzles, and (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.

Quadris Xtra is a suspoemulsion concentrate. 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.

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 and local agricultural recommendations.

SPRAYING/MIXING

Quadris Xtra may be applied with all types of spray equipment commonly used for making ground and aerial applications. Do not apply Quadris Xtra through any type of ultra low volume (ULV) spray system. Proper adjustments and calibration of spraying equipment to give good canopy penetration and coverage is essential for good disease control. Higher rates in the rate range and/or shorter spray intervals may be required under conditions of heavy infection pressure, highly susceptible varieties, or when environmental conditions conducive to disease exist.

For ground applications, apply Quadris Xtra in sufficient water volume for adequate coverage and canopy penetration. For aerial applications, apply Quadris Xtra according to local recommendations.

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 Xtra Alone: Add 1/2 - 2/3 of the required amount of water to the spray of mixing tank, with the agitator running, add Quadris Xtra to the tank and continue agitation while adding the remainder of the water. Begin application of the spray solution after the Quadris Xtra has completely dispersed into the mix water and maintain agitation until all of the mixture has been sprayed.

Quadris Xtra + Tank Mixtures: Do not combine Quadris Xtra in the spray tank with pesticides, surfactants, or fertilizers, unless compatibility charts or your own prior use has shown that the combination is physically compatible, effective, and noninjurious to the crop under your conditions of use. To determine physical compatibility of Quadris Xtra and 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 (suspoemulsions), 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.

Add 1/2 - 2/3 of the required amount of water to the spray or mixing tank. With the agitator running, add the tank mix partner into the tank. Allow the material to completely dissolve and disperse into the mix water. Continue agitation while adding the remainder of the water and the Quadris Xtra to the spray tank. Allow the Quadris Xtra to completely disperse. Spray the mixture with the agitator running.

SPRAY DRIFT MANAGEMENT

ATTENTION

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

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

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

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APPLICATION INSTRUCTIONS

Apply Quadris Xtra Fungicide at rates and timings as described in this label. Quadris Xtra may be applied by ground, by air, or via chemigation. Refer to crop section for specific directions.

Quadris Xtra should be applied with a minimum of 10 GPA via ground application equipment and 2 GPA via aerial application equipment.

Directions for Use Through Sprinkler Chemigation Systems (apply Quadris Xtra only to crops for which chemigation is specified on this label):

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

Use Precautions for Sprinkler Irrigation Applications

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

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

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

The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

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.

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 USE DIRECTIONS

Crop	Target Diseases	Use Rate fl. oz. product/A	Remarks
Cereals Wheat Triticale	Early season suppression of: Powdery mildew (<i>Blumeria</i> spp., <i>Erysiphe</i> spp.) Leaf Blight (<i>Septoria tritici</i>) Glume Blotch (<i>Stagonospora nordorum</i>) Tan spot (<i>Pyrenophora tritici-repentis</i>)	3.5	Apply Quadris Xtra in the spring at approximately Feekes Stage 5. Applications may be made no closer than a 14-day interval. Quadris Xtra may be applied by ground, air or chemigation. If applied by chemigation, the maximum amount of water should be 0.25 inches.
	Control of Leaf Diseases: Rust (stripe, leaf, and stem) (<i>Puccinia</i> spp.) Powdery mildew (<i>Blumeria</i> spp., <i>Erysiphe</i> spp.) Leaf Blight (<i>Septoria tritici</i>) Glume Blotch (<i>Stagonospora nordorum</i>) Tan spot (<i>Pyrenophora tritici-repentis</i>) Helminthosporium leaf blight (<i>Drechslera tritici-repentis</i>) Spot Blotch (<i>Bipolaris sorokiniana</i>)	3.5–6.8	For best results, apply Quadris Xtra between Feekes Stage 8 and 10.5.1. Protecting the flag leaf is important for maximizing the potential yield. If disease pressure is low, 3.5 fl. oz./acre may be applied. Applications may be made no closer than a 14-day interval. Quadris Xtra may be applied up to 30 days prior to harvest. Quadris Xtra may be applied by ground, air or chemigation. Resistance Management: No more than two foliar applications of Quadris Xtra or other strobilurin fungicides should be made per growing season. Do not alternate or tank mix with fungicides to which resistance has developed in the pathogen population.
Specific Use Restrictions: (1) Do not apply more than 6.8 fl. oz./acre of Quadris Xtra per season. (2) Do not harvest wheat within 30 days of application. (3) Do not harvest forage or hay within 21 days of application. (3) Do not apply more than 0.036 lb. a.i./A/season cyproconazole containing products. (4) Do not apply more than 0.4 lb. a.i./A/yr azoxystrobin containing products.			

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Crop	Target Diseases	Use Rate fl. oz. product/A	Remarks
<p>Corn Field Seed</p>	<p>Rusts (common and Southern) (<i>Puccinia</i> spp.) Gray leafspot (<i>Cercospora zeae-maydis</i>) Eye spot (<i>Aureobasidium zeae</i>) Northern corn leaf blight (<i>Setosphaeria turcica</i>) Northern corn leaf spot (<i>Cochliobolus carbonum</i>) Southern corn leaf blight (<i>Cochliobolus heterostrophus</i>) [also known as Helminthosporium leaf blights (<i>H. maydis</i>, <i>H. turcicum</i>, <i>H. carbonum</i>)]</p>	<p>3.5-6.8</p>	<p>Apply Quadris Xtra when disease first appears. Use the low rate when disease pressure is low. Under heavy disease pressure or if conditions are favorable for disease, apply the high rate. A second application may be made 7-14 days later. A maximum of 6.8 oz./A per season may be used.</p> <p>Application Directions: Apply no more than 2 applications of Quadris Xtra or any other Group 11 fungicide per year. Quadris Xtra may be applied by ground, air or chemigation.</p> <p>Resistance Management: No more than two foliar applications of Quadris Xtra or other strobilurin fungicides should be made per growing season. Do not alternate or tank mix with fungicides to which resistance has developed in the pathogen population.</p>
<p>Specific Use Restrictions: (1) Do not apply within 30 days of harvest. (2) Do not harvest silage within 21 days of an application. (3) Do not apply more than 6.8 fl. oz./A/season of Quadris Xtra. (4) Do not apply more than 0.036 lb. a.i. cyproconazole containing products/A/year. (5) Do not apply more than 2.0 lb. a.i. azoxystrobin containing products/A/year.</p>			

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Crop	Target Diseases	Use Rate fl. oz. product/A	Remarks
Soybean			<p>Application Directions: Coverage and penetration are important for best results. Use sufficient water volume to provide thorough and uniform plant coverage. Applications may be made by ground, air or chemigation. Addition of an additive with spreading and penetrating qualities will enhance coverage and efficacy.</p> <p>Resistance Management: No more than two foliar applications of Quadris Xtra or other strobilurin fungicides should be made per growing season. Do not alternate or tank mix with fungicides to which resistance has developed in the pathogen population.</p>
	Rust (<i>Phakopsora</i> spp.)	4.0-6.8	<p>For soybean rust: Apply 4-6.8 fl. oz./A. Repeat at 14-28 day interval, if conditions persist for rust development. Lower use rates may require a shorter spray interval. Depending on the conditions, application timing should be R1 (beginning flowering, approximately 50 days after planting) up to the R6 stage (seed development), but could be earlier.</p>
	Aerial blight (<i>Rhizoctonia solani</i>) Frogeye leafspot (<i>Cercospora sojina</i>) Anthracnose (<i>Colletotrichum truncatum</i>) Alternaria leaf spot (<i>Alternaria</i> spp.) Brown spot (<i>Septoria glycines</i>) Cercospora blight and leaf spot (<i>Cercospora kikuchii</i>) Pod and Stem blight (<i>Diaporthe phaseolorum</i>)	5.0-6.8	<p>For diseases other than soybean rust: For best results, begin Quadris Xtra applications prior to disease development. Use the higher rates under conditions favorable for severe disease pressure, dense plant canopies, or when disease is present. Contact Extension personnel for local economic thresholds and timings for specific diseases in your area. An adjuvant may be added at recommended rates to improve coverage.</p>
<p>Specific Use Restrictions: (1) Do not apply more than 13.6 fl.oz. Quadris Xtra/acre/season. (2) Do not apply within 30 days of harvest of soybeans (bean). (3) Do not graze forage within 14 days of an application. (4) Do not apply more than 0.072 lb. a.i./acre/year of cyproconazole containing products. (5) Do not apply more than 1.5 lb. a.i./acre/year of azoxystrobin containing products. (6) Do not use soybean forage or hay as livestock feed if making more than one application at 6.8 fl. oz. product/A.</p>			

Crop	Target Diseases	Use Rate fl. oz. product/A	Remarks
Roses	Blackspot (<i>Diplocarpon rosae</i>) Powdery Mildew (<i>Sphaerotheca pannosa</i>) Rust (<i>Phragmidium</i> spp.)	3.5	For foliar diseases apply Quadris Xtra when disease first appears.
Specific Use Restrictions: (1) Do not apply more than one application of Quadris Xtra. (2) Do not apply more than 5.0 lb. a.i. azoxystrobin containing products/A/year.			

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Quadris Xtra Rate Conversion Table

fl. oz./A	lb. a.i./A Cyproconazole	lb. a.i./A azoxystrobin	Treated acres per gallon product
3.5	0.018	0.046	36.6
4	0.021	0.052	32
5	0.026	0.066	25.6
6.5	0.034	0.085	19.7
6.8	0.036	0.089	18.8
13.7	0.072	0.178	na

STORAGE AND DISPOSAL

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

Pesticide Storage

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

Pesticide Disposal

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

Container Disposal

Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or alternatives allowed by State and local authorities.

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

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

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