



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

April 7, 2022

Rebecca Haynie, Ph.D
Regulatory Product Manager
Syngenta Crop Protection, Inc.
P.O. Box 18300
Greensboro, NC 27419

Subject: Registration Review Label Mitigation for Azoxystrobin and Cyproconazole
Product Name: QUADRIIS XTRA FUNGICIDE
EPA Registration Number: 100-1225
Application Dates: 5/17/2019 and 12/18/2020
Decision Numbers: 568969 and 577853

Dear Rebecca Haynie:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Azoxystrobin and Cyproconazole Interim Decisions, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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If you have any questions about this letter, please contact Quinn Gavin by phone at 202-566-2284, or via email at gavin.quinn@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Linda Arrington".

Linda Arrington, Branch Chief
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

Enclosure

AZOXYSTROBIN	GROUP	11	FUNGICIDE
CYPROCONAZOLE	GROUP	3	FUNGICIDE

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.

KEEP OUT OF REACH OF CHILDREN.

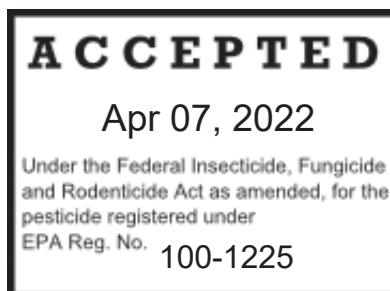
CAUTION

See additional precautionary statements and directions for use inside booklet.

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EPA Est.

_____ gallons
Net Contents



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	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed, 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.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves

- Shoes plus socks

User Safety Requirements

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

Engineering Controls

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

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 is toxic to freshwater, estuarine/marine fish and aquatic invertebrates. Azoxystrobin can be persistent for several months or longer. For terrestrial uses do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash-water or rinsate.

Ground Water Advisory

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

Surface Water Advisory

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

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

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

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

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this

product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

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

DIRECTIONS FOR USE

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

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
- Waterproof gloves

- Shoes plus socks

USE INFORMATION

Quadris Xtra 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 must be made according to the use directions that follow.

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>. 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 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. Quadris Xtra 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

AZOXYSTROBIN	GROUP	11	FUNGICIDE
CYPROCONAZOLE	GROUP	3	FUNGICIDE

For resistance management, please note that Quadris Xtra contains both azoxystrobin, a strobilurin fungicide in Group 11 and cyproconazole, a triazole fungicide in Group 3. Any fungal population may contain individuals naturally resistant to either or both of the active ingredients in Quadris Xtra and other Group 11 or Group 3 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

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 (QoI) 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.

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

- Rotate the use of Quadris Xtra or other Group 11 and 3 fungicides within a growing season sequence with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Adopt an integrated disease management program for fungicide use that includes scouting, uses historical information related to pesticide use, and crop rotation, and which considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance contact Syngenta Crop Protection at 1-866-796-4368. You can also contact your pesticide distributor or university extension specialist to report resistance.

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 a minimum of 10 gallons of 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 non-injurious 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.

Observe the most restrictive of the labeling limitations and precautions of all products used in tank mixtures.

SPRAY DRIFT MANAGEMENT

SPRAY DRIFT MANAGEMENT

Aerial Applications

- Do not release spray at a height greater than 10 ft. above the crop canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to select nozzles that deliver medium to coarse spray droplets in accordance with ASABE Standard S-572.1.
- Do not apply when wind speeds exceed 15 mph at the application site. If the windspeed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- Do not apply during temperature inversions.

Ground Boom Applications

- User must only apply with the release height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to use a medium or coarser droplet size (ASABE S-572.1).
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

SPRAY DRIFT ADVISORIES

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

IMPORTANCE OF DROPLET SIZE

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

Controlling Droplet Size – Groundboom

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

Controlling Droplet Size – Aircraft

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

BOOM HEIGHT – Groundboom

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

RELEASE HEIGHT – Aircraft

- Higher release heights increase the potential for spray drift.

SHIELDED SPRAYERS

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

TEMPERATURE AND HUMIDITY

- When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

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

WIND

- Drift potential increases at wind speeds. **AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.**
- Applicator need to be familiar with local wind patterns and terrain that could affect spray drift.

APPLICATION INSTRUCTIONS

Apply Quadris Xtra 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.

Apply Quadris Xtra in 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 (RPZ), back-flow preventer 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: Glume blotch (<i>Stagonospora nordorum</i>) Leaf blight (<i>Septoria tritici</i>) Powdery mildew (<i>Blumeria</i> spp., <i>Erysiphe</i> spp.) Tan spot (<i>Pyrenophora tritici-repentis</i>)	3.5	Apply Quadris Xtra in the spring at approximately Feekes Stage 5. The minimum retreatment interval is 14 days. 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: Glume blotch (<i>Stagonospora nordorum</i>) Helminthosporium leaf blight (<i>Drechslera tritici-repentis</i>) Leaf blight (<i>Septoria tritici</i>) Powdery mildew (<i>Blumeria</i> spp., <i>Erysiphe</i> spp.) Rust (stripe, leaf, and stem) (<i>Puccinia</i> spp.) Spot blotch (<i>Bipolaris sorokiniana</i>) Tan spot (<i>Pyrenophora tritici-repentis</i>)	5–6.8	Apply Quadris Xtra between Feekes Stage 8 and 10.5.1. Protecting the flag leaf is important for maximizing the potential yield. The minimum retreatment interval is 14 days. 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./A of Quadris Xtra (0.036 lb. a.i./A cyproconazole and 0.089 lb. a.i./A azoxystrobin) per year. (2) Do not apply more than 6.8 fl. oz./A (0.036 lb. a.i./A cyproconazole and 0.089 lb. a.i./A azoxystrobin) per single application. (2) Do not harvest wheat within 30 days of application. (3) Do not harvest forage or hay within 21 days of application. (4) Do not apply more than 0.036 lb. a.i./A/year cyproconazole containing products. (5) Do not apply more than 0.4 lb. a.i./A/year azoxystrobin containing products.			

Crop	Target Diseases	Use Rate fl. oz. product/A	Remarks
Corn Field Seed	Eye spot (<i>Aureobasidium zeae</i>) Gray leafspot (<i>Cercospora zeae-maydis</i>) Northern corn leaf blight (<i>Setosphaeria turcica</i>) Northern corn leaf spot (<i>Cochliobolus carbonum</i>) Rusts (common and Southern) (<i>Puccinia</i> spp.) 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>)]	3.5–6.8	<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:</p> <ol style="list-style-type: none"> (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/year 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. 			

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 at 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>) Alternaria leaf spot (<i>Alternaria</i> spp.) Anthracnose (<i>Colletotrichum truncatum</i>) Brown spot (<i>Septoria glycines</i>) Cercospora blight and leaf spot (<i>Cercospora kikuchii</i>) Frogeye leafspot (<i>Cercospora sojina</i>) Pod and Stem blight (<i>Diaporthe phaseolorum</i>)	5.0–6.8	<p>For diseases other than soybean rust: 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:</p> <ol style="list-style-type: none"> (1) Do not apply more than 13.6 fl.oz. Quadris Xtra/A/year. (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./A/year of cyproconazole containing products. (5) Do not apply more than 1.5 lb. a.i./A/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. 			

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	0.021	0.052	32.0
5.0	0.026	0.066	25.6
6.5	0.034	0.085	19.7
6.8	0.036	0.089	18.8
13.6	0.072	0.178	N/A

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and 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 Handling (equal to or less than 5 gallons)

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 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 or 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, by incineration, or Puncture and dispose of in a sanitary landfill or by incineration.

Container Handling (greater than 5 gallons)

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

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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