

100-1151

5-30-2002

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:

100-1151

Date of Issuance:

MAY 30 2002

NOTICE OF PESTICIDE:
 Registration
 Reregistration

Term of Issuance:

Conditional

Name of Pesticide Product:

Quadris®/Ridomil Gold®
Twin-Pak

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Syngenta Crop Protection, Inc.
P.O. Box 18300
Greensboro, North Carolina 27419-8300

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the changes to the label that are listed below before you release the product for shipment:
 - a. Revise the EPA Registration Number to read "EPA Reg. No. 100-1151".
 - b. In the "Engineering Control Statements" section, change "Statndard" to "Standard".
 - c. In the "Environmental Hazards" section, in the first paragraph in the "Ridomil Gold EC" subsection, delete the statement that reads "Do not contaminate water when disposing of equipment wash waters or rinsate". It is redundant to the same statement in the first paragraph after the "Environmental Hazards" heading.

Signature of Approving Official:

/s/

Date:

MAY 30 2002

- d. In the "Pesticide Disposal" subsection of the "STORAGE AND DISPOSAL" section, move the statement "Do not contaminate water, food, or feed by storage or disposal." up to just after the heading "STORAGE AND DISPOSAL". It does not refer to disposal alone.
 - e. Add a Storage subsection to the "STORAGE AND DISPOSAL" section, and add appropriate instructions to the new subsection.
 - f. On page 12, delete the asterisk after "Grasses" in the "Rotation Crop" column.
3. Submit one copy of your final printed label before you release this product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

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

A stamped copy of the label is attached. If you have any questions about this letter, please contact John Bazuin at (703)305-7381.

Attachments: Product label, stamped "Accepted with Comments"
A-79 Enclosure

4/15/02

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Twin-Pak™

Quadris®/Ridomil Gold® Twin-Pak™
Fungicide

A co-pack of azoxystrobin and mefenoxam for broad-spectrum disease control in cotton

Quadris® Flowable

Fungicide

Active Ingredient:

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

Contains 2.08 lbs of active ingredient per gallon

*IUPAC

20 fl. oz.

U.S. Standard Measure

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

Product of the UK for distribution by:
Syngenta

KEEP OUT OF REACH OF CHILDREN.

CAUTION

**ACCEPTED
with COMMENTS
In EPA Letter Dated
MAY 30 2002**

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
100-1151**

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Ridomil Gold® EC

Fungicide

For the control of certain diseases in various crops caused by the Oomycete class of fungi

Active Ingredients*:

(R)-2-[(2,6-dimethylphenyl)-methoxyacetyl-amino]-propionic acid methyl ester 47.6%

Related Compounds..... 1.4%

Other Ingredients: 51.0%

Total: 100.0%

*Contains 4 lbs. active ingredient per gallon.

100 fl. oz.

U.S. Standard Measure

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-

EPA Est. No.

Total 120 fl. oz.

U.S. Standard Measure

SCP XXXX

FIRST AID	
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 swallowed	<ul style="list-style-type: none"> • Call 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 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 treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<p>HOT LINE NUMBER</p> <p>For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident) Call 1-800-888-8372</p>	

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PRECAUTIONARY STATEMENTS

Ridomil Gold EC**Hazards to Humans and Domestic Animals****CAUTION**

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

Quadris Flowable**Hazards to Humans and Domestic Animals****CAUTION**

Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

Personal Protective Equipment

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 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 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.

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Environmental Hazards

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. 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.

Quadris Flowable

The active ingredient, azoxystrobin, in this product 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. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

This pesticide is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in neighboring areas.

Ridomil Gold EC

Apply only as specified on this label. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment wash waters or rinsate

Groundwater Advisory Statement

This chemical is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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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 Limitations of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of Syngenta.

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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.

Quadris/Ridomil Gold Twin-Pak 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/Ridomil Gold Twin-Pak where spray drift may reach apples.

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

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

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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 48 hours. Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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
- Shoes plus socks

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

STORAGE AND DISPOSAL

Do not use, pour, spill, or store near heat or open flame.

Pesticide Disposal

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Wastes resulting from the use of this product are acutely toxic. Improper disposal of unused pesticide, spray mixture, or rinsate is a violation of federal law. Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to federal, state, or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

Container Disposal

Do not reuse empty container. Triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or alternatives allowed by State and local authorities.

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For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes.

GENERAL INFORMATION

Quadris/Ridomil Gold Twin-Pak is a co-pack of two fungicides. The co-pack results in a broad spectrum preventative fungicide with systemic properties for control of many soilborne plant diseases. The product consists of a single container with two separate chambers which must be used together. Use the entire contents of the container once it is opened. Do not use separately. All applications should be made according to the use directions that follow.

Quadris/Ridomil Gold Twin-Pak can provide control of many soilborne diseases when applied as an in-furrow application at planting. In-furrow applications will provide control of pre- or post-emergence damping off and diseases that infect plants at the soil-plant interface.

Chemigation: Do not apply this product through any type of irrigation equipment.

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GENERAL USE PRECAUTIONS

Crops on this label may be planted immediately after last treatment. Do not plant any crop which is not registered for use with the Quadris/Ridomil Gold Twin-Pak in soil treated with this product for a period of 12 months, unless a shorter interval is specified on the following list.

Rotation Crop	Planting Time From Last Quadris/Ridomil Gold Twin-Pak Application
Alfalfa (including birdsfoot trefoil), Almonds, Apples, Asparagus, Avocados Blueberries, Citrus, Clover. Cole Crops, Cotton, Cranberries, Cucurbit Vegetables Eggplant Garlic, Ginseng, Grapes Grasses* Hops Leafy Vegetables (Excluding Brassica), Legume Vegetables (beans and peas - succulent and dried) Onions (dry bulb, green, and seed) Papaya, Peanuts. Peppers, Pineapples, Potatoes Raspberries, Root and Tuber Vegetables Soybeans, Spinach, Stone Fruits, Strawberries. Sugar Beets Tobacco. Tomatoes Walnuts	45 days
Cereal Grains (other than Corn)	45 days
Corn	9 months
Crops Not Intended for Food or Feed	45 days
All Other Crops Intended for Food or Feed	12 months

INTEGRATED PEST (DISEASE) MANAGEMENT

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Quadris/Ridomil Gold Twin-Pak 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.

APPLICATION INSTRUCTIONS

Apply Quadris/Ridomil Gold Twin-Pak as an in-furrow spray in 5-15 gallons of water per acre at planting. Mount the spray nozzle so the spray is directed into the furrow just before the seed are covered. Use the higher rate when the weather conditions are expected to be conducive for disease development, if the field has a history of Pythium problems, or if minimum/low till programs are in place. Quadris/Ridomil Gold Twin-Pak may be applied with all types of spray equipment commonly used for making in-furrow applications. Proper adjustments and calibration of spraying equipment is essential for good disease control.

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. Avoid spray overlap, as crop injury may result. Contact your State extension agent for spray drift prevention guidelines in your area.

Do not tank mix with liquid fertilizers or other pesticides.

Quadris/Ridomil Gold Twin-Pak is extremely phytotoxic to certain apple varieties.

Do Not use spray equipment used for this application to spray apple trees or make applications near apples. Even trace amounts can cause unacceptable phytotoxicity to certain apple and crabapple varieties.

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

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

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

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MIXING/SPRAYING

To prepare spray solution, partially fill the spray tank with clean water and begin agitation. Add the specified amount of Quadris/Ridomil Gold Twin-Pak to the tank, allowing time for good dispersion. Finish filling the tank to the desired volume to obtain the proper spray concentration. Maintain agitation throughout the spraying operations. Do not allow spray mixture to stand overnight or for prolonged periods. Make up only the amount of spray required for immediate use. Use the entire contents of this container once the container is opened. Sprayers should be thoroughly cleaned immediately after application.

SPECIFIC USE DIRECTIONS

Apply entire contents of this container to treat acreage of cotton based on row spacing as described in Table 1. At the low rate and a 40" row spacing, this is equivalent to 1 oz of Ridomil Gold EC and 5 oz. of Quadris Flowable per acre. At the high rate and a 40" row spacing this is equivalent to 1.45 oz. of Ridomil Gold EC and 7.45 oz. of Quadris Flowable per acre.

Crop	Target Diseases	Remarks
Cotton	<p>Southern blight (<i>Sclerotium rolfsii</i>)</p> <p>Rhizoctonia seedling blight (<i>Rhizoctonia solani</i>)</p> <p>Pythium seedling blight (<i>Pythium aphanadermatum</i>)</p> <p>Pythium Root Rot (<i>Pythium ultimum</i>)</p>	<p>Integrated Pest (Disease) Management: Quadris/Ridomil Gold Twin-Pak should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, optimum plant populations, proper fertilization, plant residue management, crop rotation and proper water management.</p> <p>Apply Quadris/Ridomil Gold Twin-Pak as an in-furrow spray in 5-15 gallons of water per acre at planting. Mount the spray nozzle so the spray is directed into the furrow just before the seed are covered. Use the higher rate when the weather conditions are expected to be conducive for disease development, if the field has a history of Pythium problems, or if minimum/low till programs are in place.</p> <p>Make only one application per use season.</p> <p>When using this product, do not make any applications of the individual products Quadris Flowable and Ridomil Gold EC, to cotton. Use the entire contents of the Quadris/Ridomil Gold Twin-Pak container once it is opened.</p>

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Table 1. Number of Acres per One Twin-Pak Container Based on Row Spacing

	22" rows	30" rows	32" rows	34" rows	36" rows	38" rows	40" rows
RATE	Acres Treated						
Low Rate	11	15	16	17	18	19	20
High Rate	7	10	10.5	11	11.5	12	13

40" = 13,068 row ft., 38" = 13,754 row ft., 36" = 14,520 row ft., 34" = 15,374 row ft., 32" = 16,315 row ft., and 30" = 17,424 row ft., and 22" = 23,760 row ft./Acre

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

Syngenta Crop Protection, Inc.
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www.syngenta-us.com

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