

3125-562

05/23/2002

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

MAY 23 2002

Melvin K. Tolliver
Bayer Corporation, Agriculture Division
8400 Hawthorn Road, P.O. Box 4913
Kansas city, MO 64120-0013

Subject: Stratego Fungicide
EPA Registration No. 3125-562
Label Amendment to add corn, pecans, and rice
Your Applications Dated March 7, 2002

Dear Mr. Tolliver:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable subject to the comments listed below.

1. The wheat residue data MRID 45080805 is acceptable to the Agency.
2. You must submit adequate wheat metabolism data for corn and rice commodities; and poultry and eggs tolerances with in 3 years of the date of this letter.

One (1) copy of the finished labeling must be submitted prior to releasing the product for shipment. A stamped copy of the label is enclosed.

If you have any questions, please contact Janet Whitehurst at (703) 305-6129.

Sincerely yours,

/s/

Cynthia Giles-Parker
Product Manager 22
Fungicide Branch
Registration Division (H7505C)

Enclosure

Stratego®

Fungicide

For control of certain diseases in corn, peanuts, pecans, rice and wheat

Active Ingredients:

Propiconazole (CAS No. 60207-90-1)	11.4%
Trifloxystrobin (CAS No. 141517-21-7)	11.4%
Other Ingredients:	77.2%
Total	100.0%

Contains 1.04 lb Propiconazole per gallon plus 1.04 lb Trifloxystrobin per gallon.

EPA Reg. No. 3125-562

Net _____ Gallon

STOP - Read the label before use.

Keep out of reach of children.

WARNING AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
If in eyes	<ul style="list-style-type: none">Hold eye open and rinse slowly and gently with water for 15 to 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 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 a poison control center or doctor.Do not give anything by mouth to an unconscious person.
In case of emergency call toll free the Bayer Kansas City Emergency Response Telephone No. 800-414-0244. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.	
Note To Physician: If ingested, induce careful lavage of stomach. Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.	

ACCEPTED

MAY 23 2002

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 3125-562

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Warning: Causes substantial but temporary eye injury. Harmful if swallowed. Do not get in eyes or on clothing.

Personal Protective Equipment

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Goggles or face shield

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions exist 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.

Environmental Hazards

This pesticide is toxic to fish and aquatic invertebrates. 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.

Ground Water Advisory

Several trifloxystrobin degradates have properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Physical or Chemical Hazards

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

DIRECTIONS FOR USE

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

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

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 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 over long-sleeved shirt and long pants
- Chemical-resistant gloves made of waterproof material
- Socks and chemical-resistant footwear
- Goggles or face shield

IMPORTANT: Read these entire Directions and Conditions of Sale before using STRATEGO fungicide.

CONDITIONS OF SALE: THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE THE DIRECTIONS FOR CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED FOR A RANGE OF WEATHER CONDITIONS SIMILAR TO THOSE WEATHER CONDITIONS THAT ARE ORDINARY AND CUSTOMARY IN THE GEOGRAPHIC AREA WHERE THE PRODUCT IS USED. INSUFFICIENT CONTROL OF PESTS AND/OR INJURY TO THE CROP TO WHICH THE PRODUCT IS APPLIED MAY RESULT FROM THE OCCURRENCE OF EXTRAORDINARY OR UNUSUAL WEATHER, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO OTHER CROPS, ANIMALS, MAN, OR THE ENVIRONMENT. BAYER OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL WEATHER, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF BAYER AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

GENERAL INFORMATION

Stratego is a broad spectrum fungicide for the control of certain diseases in corn, peanuts, pecans, rice and wheat. Stratego, containing two fungicides, works both by interfering with respiration in plant pathogenic fungi and blocking fungal growth. Stratego is a potent inhibitor of spore germination and mycelial growth.

UNDER CERTAIN CONDITIONS CONDUCTIVE TO EXTENDED INFECTION PERIODS, ADDITIONAL FUNGICIDE APPLICATIONS BEYOND THE NUMBER ALLOWED BY THIS LABEL MAY BE NEEDED. UNDER THESE CONDITIONS USE ANOTHER FUNGICIDE REGISTERED FOR THE CROP/DISEASE APPEARING ON THIS LABEL.

Resistance Management

The components in Stratego belong to two different chemistry classes. Trifloxystrobin belongs to the strobilurin class of chemistry which exhibits no known cross-resistance to other chemical classes including sterol inhibitors, dicarboximides, benzimidazoles, anilinoimidazoles, or phenylamides. Propiconazole belongs to the sterol inhibitor class. Because resistance development cannot be predicted, the use of this product should conform to resistance management strategies established for the crop and use area. Such strategies may include rotating and/or tank mixing with products having different modes of action; or limiting the total number of applications per season. Bayer Corporation encourages responsible product stewardship to ensure effective long-term control of the fungal diseases on this label.

Spray Equipment

Thorough coverage is necessary to provide good disease control. Applications using sufficient water volume to provide thorough and uniform coverage generally provide the most effective disease control. For ground application equipment, a minimum of 10 gals./A is recommended. For aerial application equipment, a minimum of 5 gals./A is recommended.

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 the capacity to: (1) maintain a minimum of 35 psi at nozzles, and (2) provide sufficient agitation in the tank to keep the mixture in suspension - this requires recirculation of 10% of the tank volume per minute. Use a jet agitator or liquid sparge tube for agitation.

Use screens to protect the pump and to prevent nozzles from clogging. Screens placed on the suction side of the 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 nozzles. Check nozzle manufacturer's recommendations.

For information on spray equipment and calibration, consult sprayer manufacturers and state recommendations. For specific local directions and spray schedules, consult the current state agricultural experiment station recommendations.

Mixing Procedures

Prepare no more spray mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. Vigorous agitation is necessary for proper dispersal of the product. Maintain maximum agitation throughout the spraying operation. Do not let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

Additives: Do not apply Stratego in combination with organosilicate surfactants or crop injury may occur.

Stratego Alone: Add 1/2 of the required amount of water to the spray tank and start the agitator. Add the proper amount of Stratego and then add the rest of the water. Begin application of the solution when the Stratego has completely dispersed in the mix water. Maintain agitation until all of the mixture has been applied.

Stratego + Tank Mixtures: Add 1/2 of the required amount of water to the spray tank and start the agitator. In general, add tank mix partners in this order: products packaged in water-soluble packaging, wettable powders, wettable granules (dry flowables), liquid flowables, liquids, and emulsifiable concentrates such as Stratego. Always allow each tank mix partner to become fully dispersed before adding the next product. Continue to provide agitation while adding the remainder of the water. Maintain agitation until all of the mixture has been applied.

Note: When using Stratego in tank mixtures, all products in water-soluble packaging should be added to the tank before any other tank mix partner, including Stratego. Allow the water-soluble packaging to completely dissolve and the product(s) to completely disperse before adding any other tank mix partner to the tank.

If using Stratego in a tank mixture, observe all directions for use, crop/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank mix product label. No label dosage rate should be exceeded, and the most restrictive label precautions and limitations should be followed. This product should not be mixed with any product which prohibits such mixing. Tank mixtures, or other applications of products referenced on this label, are permitted only in those states in which the referenced products are labeled.

Stratego is compatible with most insecticide, fungicide, and foliar nutrient products. However, the physical compatibility of Stratego with tank mix partners should be tested before use. To determine the physical compatibility of Stratego with other products, use a jar test, as described below.

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, next liquid flowables, then emulsifiable concentrates, and last, liquid soluble products. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is probably physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

THE CROP SAFETY OF ALL POTENTIAL TANK MIXES INCLUDING ADDITIVES AND OTHER PESTICIDES ON ALL CROPS HAS NOT BEEN TESTED. BEFORE APPLYING ANY TANK MIXTURE NOT SPECIFICALLY RECOMMENDED ON THIS LABEL, THE SAFETY TO THE TARGET CROP SHOULD BE CONFIRMED.

Aerial Application: Avoid application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur. Do not apply directly to humans or animals.

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

Recommendations to Avoid Spray Drift

Do not make applications when conditions favor drift beyond the target application area. When drift may be a problem, take measures to reduce drift, including:

- (1) Do not spray if wind speeds are or become excessive. Do not spray if wind speed is 15 mph or greater. If nontarget crops are located downwind, use caution when spraying if wind is present. Do not spray if winds are gusty.
- (2) Use caution when conditions are favorable for drift (high temperatures, drought, low relative humidity).
- (3) Do not apply when a temperature inversion exists. If inversion conditions are suspected, consult with local weather services before making an application.

USE DIRECTIONS

CORN (Field Corn, Field Corn Grown for Seed and Popcorn)	
Disease Control	Rate fl. oz./acre
Rust (<i>Puccinia sorghi</i>)	7.0-10.0
Eye Spot (<i>Kabatiella zeae</i>) Gray Leaf Spot (<i>Cercospora zeae-maydis</i>) Helminthosporium Leaf Blights (<i>Helminthosporium maydis</i> , <i>H. carbonum</i> , <i>H. turcicum</i>)	10.0-12.0
Note: Applications may be made to corn between the V4 (4-leaf) to after silking growth stages. Apply when disease first appears and continue on a 7 to 14-day interval if favorable conditions for disease development persist. Use the higher rates and shorter intervals when disease pressure is severe.	
Restrictions: Do not apply more than 36 fl. oz. of Stratego per acre per crop. Do not apply Stratego to field corn and field corn grown for seed after silking. Do not graze or harvest for forage within 30 days of application. Do not apply more than 2 sequential applications of Stratego. Do not make more than 3 applications of Stratego or other strobilurin or strobilurin-containing fungicide per acre per crop.	

PEANUTS	
Disease Control	Rate fl. oz./acre
Early Leaf Spot (<i>Cercospora arachidicola</i>) Late Leaf Spot (<i>Cercosporidium personatum</i>) Rust (<i>Puccinia arachidis</i>) Web Blotch (<i>Phoma arachidicola</i>)	7.0
Note: Begin applications when conditions are favorable for diseases but before infection. Apply on a 10 to 14-day interval.	
Limb Rot Disease (<i>Rhizoctonia solani</i>)	14.0
Note: Apply 2 times -- make the first application 56-60 days after planting for control of R. solani. Make a second application 30 days later. This will also control leaf spot and rust. Integrate routine leaf spot and rust applications on a 14-day schedule at rate for foliar diseases.	
Restrictions: Do not exceed more than 6 total applications of Stratego per season. Do not apply Stratego within 14 days of harvest. Use a maximum of 2 consecutive applications of Stratego within an integrated disease control program.	

PECANS	
Disease Control	Rate fl. oz./acre
Pecan Scab (<i>Cladosporium carygenum</i>) Anthracnose (<i>Glomerella cingulata</i>)	10.0
Note: Begin applications preventatively when conditions are favorable for disease development and continue throughout the season using a 14 to 21-day spray interval. Stratego will control scab occurring on both the leaf and shuck.	
Restrictions: Do not apply more than 30 fl.oz. /acre of Stratego per acre per season. Do not apply after shuck split or within 30 days of harvest. Do not apply more than 3 sequential applications of Stratego before alternating with a fungicide that has a different mode of action. Do not make more than 3 applications of Stratego or other strobilurin-containing fungicides per acre per year.	

RICE	
Disease Control	Rate fl. oz./acre
Sheath/Stem Diseases Sheath Blight (<i>Rhizoctonia solani</i>)	14.0 – 16.0
Foliar Diseases Brown Spot (<i>Cercospora oryzae</i>) Narrow Brown Leaf Spot (<i>Cercospora oryzae</i>) Leaf Smut (<i>Entyloma oryzae</i>) Leaf Blast (<i>Pyricularia grisea</i>)	
Panicle Diseases Kernal Smut (<i>Tilletia barclayana</i>)	
Disease Suppression False Smut (<i>Ustilaginoidea virens</i>)	
<p>Note: Begin applications prior to disease development with first applications normally occurring at or near panicle differentiation. Under severe disease conditions or when conditions are favorable for disease development, a second application made just prior to boot split and head emergence, may be required. Consult with your local extension personnel or Bayer representative for additional information for your specific use area.</p> <p>Use the higher rates when disease pressure is severe.</p>	
<p>Restrictions: Do not apply Stratego once the rice seed head has emerged. Do not apply more than 2 applications of Stratego or other strobiluron or strobiluron-containing fungicide per acre per year. Do not apply within 35 days of harvest. Do not apply more than 32 fl. oz. Stratego per acre per year. Do not apply to stubble or ratoon crop rice. Do not use in rice fields where commercial farming of crayfish will be practiced. Do not drain water from treated rice fields into ponds used for commercial catfish farming. Do not use water drained from treated fields to irrigate other crops. Do not apply in CA.</p> <p>Endangered Species Restrictions: The use of Stratego on rice is restricted to protect the endangered fat pocketbook pearly mussel (<i>Potamilus capax</i>) and its habitat. Use is prohibited in the following areas of AR:</p> <p>Mississippi County - Within the basin that drains directly into the Right Hand Chute of Little River, south of Big Lake National Wildlife Refuge.</p> <p>Poinsett County – Between Crowley's Ridge and the levee east of the Right Hand Chute of Little River and the St. Francis Floodway. Use is also prohibited west of Rt. 140 and north of Rt. 63 at the siphon near Marked Tree. Except that the prohibited area does not include the area bounded by Arkansas highway 373 on the west, highway 63 on the east, and highway 14 on the south.</p> <p>Cross, St. Francis and Lee Counties – Between Crowley's Ridge and the levee east of the Right Hand Chute of Little River, and the St Francis Floodway, as far south as the confluence of L'Anguille River (Lee County).</p>	

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WHEAT	
Disease Control	Rate fl. oz./acre
Glume Blotch (<i>Stagonospora nodorum</i>) Leaf Blight (<i>Septoria tritici</i>) Powdery Mildew (<i>Erysiphe graminis</i>) Rusts (<i>Puccinia recondita</i> , <i>P. graminis</i> , <i>P. striiformis</i>) Tan Spot (<i>Pyrenophora tritici-repentis</i>)	10.0
Note: Begin applications preventively when conditions are favorable for disease development. A second application (minimum interval of 14 days) may be made if needed.	
Restrictions: Do not apply more than 2 applications of Stratego per season. Do not apply after Feekes growth stage 8 (the ligule of the flag leaf emerges). Do not apply within 35 days of harvest.	
Grazing Restrictions: (a). If 1 application or a total of 10 fl. oz of Stratego per season are applied, do not allow livestock to graze within the treated area within 30 days after application, and do not harvest the treated crop for forage within 30 days after application or for hay within 45 days after application. (b). If 2 applications or a total of 20 fl. oz. of Stratego per season are applied, do not allow livestock to graze within the treated area and do not harvest the treated crop for forage or hay.	

Note: 10 fl. oz /A of Stratego is equivalent to 1.3 oz. of trifloxystrobin per acre.

Rotational Restrictions

Treated areas may be replanted immediately following harvest or as soon as practical following the last application with any crop listed on this label. The following crops may be replanted 30 days after the last application: celery, cereals, sweet corn, pineapple, and sugarcane. Soybeans may be planted as a double crop following a cereal crop that has been treated with STRATEGO. Do not use hay, forage or fodder from the soybean crop as any component of animal feed or bedding. For all other crops, a 105 day plant-back interval must be observed.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer Kansas City Emergency Response telephone number is 800-414-0244, or contact Chemtrec at 800-424-9300.

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

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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