



PM 2 100-737 10F16
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

JAN 4 1994

Theresa Kamicker
CIBA-GEIGY CORP.
P.O. Box 18300
Greensboro, NC 27419

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 07/26/93 in Response to PR Notice 93-7
EPA Reg. No. 100-737
TILT GEL FUNGICIDE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable
Printed with SoyCandis ink on paper that
contains at least 50% recycled fiber

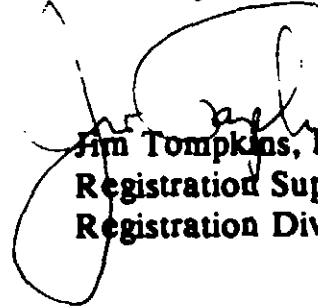
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

NPS
BOOKLET FRONT COVER

Tilt® Gel

ACCEPTED
with COMMENTS
In EPA Letter Dated

JAN 14 1991

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

100-737

Fungicide

For control of certain diseases
in cereals and grasses grown for seed.

This outer protective container holds Tilt Gel in 4 individual water-soluble packets which are designed to dissolve in water. Do not handle the soluble packets excessively or expose them to moisture, since this may cause them to rupture.

Active Ingredient:

Propiconazole: 1-[[2-(2,4-dichlorophenyl)-4-propyl-
1,3-dioxolan-2-yl]methyl]-1H-1,2,4-
triazole

41.8%

Inert Ingredients:

58.2%

Total:

100.0%

4 X 20 fl. oz. Water Soluble Packets
Total 5.38 Pounds Net Weight

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.)

See additional precautionary statements
and directions for use inside booklet.

EPA Reg. No. 100-737

EPA Est. 5905-GA-1

CGA 130L2A 013

Ciba-Geigy

[GANNONC.LABELT]TILT-WPF - 7/12/93

DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product. If terms are not acceptable, return the unopened product container at once.

Conditions of Sale and Warranty

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of Ciba-Geigy or the Seller. All such risks shall be assumed by the Buyer.

Ciba-Geigy warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. Ciba-Geigy makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Ciba-Geigy or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. Ciba-Geigy and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of Ciba-Geigy.

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
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride (PVC) or viton
- Shoes plus socks
- Protective eyewear

General Information

Tilt Gel is a broad spectrum fungicide for the control of certain diseases in wheat, barley, rye, rice, and in grasses grown for seed.

Note: Do not use in nurseries, on turf or landscape plantings, or as a tree injection.

FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, OR ILLEGAL RESIDUES.

Spray Equipment

Thorough coverage is necessary to provide good disease control.

To avoid spray drift, do not apply when conditions favor drift beyond the target area. Avoid spray overlap, as crop injury may occur.

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 35-40 psi at nozzles, and (2) provide sufficient agitation in tank to keep mixture in suspension - this requires recirculation of 10 percent of tank volume per minute. Use a jet agitator or liquid sparge tube for agitation. Do not air sparge.

Although Tilt Gel is designed to dissolve in water, 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 agricultural experiment station recommendations.

Aerial Application: For those crops where aerial applications are indicated, apply in a minimum of 5 gals. of water/A unless specified otherwise. Avoid application under conditions when uniform coverage cannot be obtained or when excessive spray drift may occur. Do not apply directly to humans or animals.

Ground Application: Apply Tilt Gel by ground equipment in a minimum of 15 gals. of water/A.

Chemigation: Do not apply this product through any type of

irrigation system.

Mixing Procedures

Thoroughly clean spray equipment before using this product to remove contaminants which may cause crop injury or sprayer clogging. Prepare no more spray mixture than is required for the immediate operation. Agitate thoroughly before and during application such that a rippling or rolling action is created at the liquid surface. Rinse spray tank thoroughly with clean water after each day's use and dispose of pesticide rinsate by application to an already-treated area.

Precautions: 1) Soluble packets of Tilt Gel must be dissolved completely in water before any other tank mix partner, including micronutrients, other liquid or dry fertilizer, or any adjuvant such as a non-ionic surfactant, is added to the spray solution. 2) Do not use with oils.

Tilt Gel Alone: Add 1/2 to 2/3 of the required amount of water to the spray or mixing tank. With the agitator running, drop the required number of unopened soluble packets of Tilt Gel into the tank. Continue agitation while adding the remainder of the water. Begin application of the spray solution after the packets have dissolved and the material has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

Tilt Gel + Tank Mixtures: Tilt Gel is usually compatible with tank mix partners listed on this label. Consult your dealer or Ciba-Geigy sales representative for information concerning compatibility with other tank mix partners.

Add 1/2 to 2/3 of the required amount of water to the spray or mixing tank. With the agitator running, drop the required number of unopened soluble packets of Tilt Gel into the tank. Continue agitation while adding the remainder of the water. Tank mix partners may only be added when 1) the Tilt Gel packets and their contents have dissolved and dispersed in the tank, and 2) when the tank has filled with water. Continue agitation when adding the tank mix partners and while spraying the solution onto the crop.

If using Tilt Gel in a tank mixture, observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank mix partner 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.

Rotational Crops

Soybeans may be planted as a double crop following a cereal crop which has been treated with Tilt Gel. Do not use hay, forage, or fodder from the soybean crop as any component of animal feed or bedding.

To avoid possible illegal residues, do not plant any other crop intended for food, grazing, or any component of animal feed or bedding within 105 days of Tilt Gel application to the preceding crop, unless the second appears on this label.

Cereals

Wheat, Barley, Rye

In wheat, barley, and rye, Tilt Gel controls rusts (Puccinia spp.), powdery mildew (Erysiphe spp.), leaf blight and glume blotch (Septoria spp.), tan spot (Pyrenophora tritici-repentis), Helminthosporium leaf blight, barley scald (Rhynchosporium secalis) and net blotch (Pyrenophora teres). Apply 1 packet of Tilt Gel per 5 acres by ground or aerial application. Highest yields are normally obtained when Tilt Gel is applied to the emerging flag leaf. Tilt Gel can be applied until the ligule of the flag leaf emerges (Feekes growth stage 8). Do not apply after this growth stage to avoid possible illegal residues. Tilt Gel may be applied earlier if disease symptoms appear (especially applicable to barley). Make only one application per season.

For control of foot rot (Pseudocercospora sp.), apply 1 packet of Tilt Gel per 5 acres plus half rates of other EPA-registered fungicides such as Benlate®, Mertect® and Topsin® M. Apply at tillering but before elongation has occurred.

Note: Do not graze or feed livestock treated forage or cut the green crop for hay or silage. After harvest the straw may be used for bedding or feed.

Rice

In rice, Tilt Gel controls sheath blight (Rhizoctonia solani), brown leaf spot (Helminthosporium oryzae), narrow brown leaf spot and brown blotch (Cercospora oryzae), leaf smut (Entyloma oryzae) and sheath spot (Rhizoctonia oryzae). Tilt Gel also suppresses stem rot (Sclerotium oryzae). Apply Tilt Gel on either of the following schedules as an aerial spray in 5-10 gals. of water/A:

- A. 3 packets per 10 acres at first internode elongation (up to 2-inch panicle) and repeat at swollen boot. Make the second application 10-14 days after the first application, but before the boot splits and head emerges. Tilt Gel provides best control of sheath blight when the first application is made as soon as disease appears in the field. The first application is recommended when 5 percent or fewer of the tillers are infected.

OR

- B. 1 packet per 2 acres at first internode elongation (up to 2-inch panicle). This rate is recommended if greater than 10 percent of the tillers are infected with sheath blight. If disease reappears, use another EPA-registered fungicide for the second application.

Notes: To avoid possible illegal residues 1) Do not apply to stubble or ratoon crop rice; 2) Do not use in rice fields where commercial farming of crayfish will be practiced; 3) Do not drain water from treated rice fields into ponds used for commercial catfish farming; 4) Do not use water drained from treated fields to irrigate other crops; and 5) Do not use in California.

Endangered Species Restrictions: The use of Tilt Gel (propiconazole) on rice is restricted to protect the endangered fat pocketbook pearly mussel (*Potamilus capax*) and its habitat. Use is prohibited in the following areas of Arkansas:

Mississippi County - Within the basin that drains directly into the Right Hand Chute of Little River, south of Big Lake National Wildlife Refuge.

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.

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'Anquille River (Lee County).

Grasses Grown for Seed (Nebraska, Oregon, Washington, Idaho, and Minnesota only)

Tilt Gel controls rusts (*Puccinia* spp.), powdery mildew, and *Selenophoma* stem eyespot in perennial ryegrass, fescues, bluegrass, orchardgrass, and/or wheatgrasses.

Apply 1 packet of Tilt Gel per 2.5-5 acres (maximum 1 packet per 5 acres on bluegrass) in a minimum of 20 gals. of water/A for ground application, or in a minimum of 10 gals. of water/A for aerial application. Apply when powdery mildew and *Selenophoma* infections or rust pustules are noticeable and increasing in number, in late spring or early summer. Repeat at 14-21 day intervals. To maximize control under severe rust pressure, use the higher rate of 1 packet per 2.5 acres (except on bluegrass), and make applications at 14-day intervals until the seed is mature. Do not apply more than 4 packets of Tilt Gel per 2.5 acres per growing cycle. Make the last application at least 20 days before seed matures. For bluegrass, it is important to begin application early in the growing season.

Notes: To avoid possible illegal residues, do not: 1) feed hay cut within 20 days of the last application or 2) graze treated areas within 140 days of the last application.

Storage and Disposal

Storage

Store in a cool, dry place. Do not store this product under wet conditions. Handle outer packaging carefully to avoid breakage of inner soluble packets.

Pesticide Disposal

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

Container Disposal

Do not reuse outer container. Dispose of empty outer container in a sanitary landfill, by incineration, or by burning, if allowed by state and local authorities. Stay out of smoke from burning containers.

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. In the event of a major spill, fire, or other emergency, call 1-800-888-8372 day or night.

Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING/AVISO

Causes substantial but temporary eye injury. Do not get in eyes. Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with skin or clothing. Avoid breathing vapors or spray mist.

Statement of Practical Treatment

If in eyes: Hold eyelids open and flush eyes with a steady, gentle stream of water. Get medical attention.

If swallowed: Do not induce vomiting. Promptly drink a large quantity of milk, egg whites, or gelatin solution. If these are not available, drink large quantities of water. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center.

If inhaled: Move victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth, and get medical attention.

If on skin: Wash with plenty of soap and water. Get medical attention.

Note to Physician: If ingested, lavage stomach to avoid aspiration. Give a saline laxative and supportive therapy.

Personal Protective Equipment (PPE):

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

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride (PVC) or viton
- Shoes plus socks
- Protective eyewear

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 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. Do not apply directly to water, 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 waters. Refer to product labeling for use restrictions to protect endangered species.

Physical and Chemical Hazards

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

Accu-Pak™ and Tilt® trademarks of Ciba-Geigy Corporation
U.S. Patent No. 4,079,062

Benlate® trademark of E. I. duPont de Nemours and Company, Inc.

Mertect® trademark of Merck and Company, Inc.

Topsin® trademark of Pennwalt Corporation

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Ciba Plant Protection
Ciba-Geigy Corporation
Greensboro, North Carolina 27419

CGA 130L2A 013

Product ID: 59110

Back Page of Booklet

Tilt® Gel

Fungicide

For control of certain diseases in cereals
and grasses grown for seed.

Active Ingredient:

Propiconazole: 1-[[2-(2,4-dichlorophenyl)-4-propyl- 1,3-dioxolan-2-yl]methyl]-1H-1,2,4- triazole	41.8%
Inert Ingredients:	58.2%
Total:	100.0%

See directions for use in attached booklet.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and
with the Worker Protection Standard, 40 CFR part 170.
Refer to supplemental labeling under "Agricultural Use
Requirements" in the Directions for Use section for
information about this standard.

EPA Reg. No. 100-737
EPA Est. 5905-GA-1

Tilt® trademark of Ciba-Geigy Corporation
U.S. Patent No. 4,079,062

©1993 Ciba-Geigy Corporation

4 X 20 fl. oz. Water Soluble Packets
Total 5.38 Pounds Net Weight

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.)

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Causes substantial but temporary eye injury. Do not get in eyes. Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with skin or clothing. Avoid breathing vapors or spray mist.

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- If swallowed: Do not induce vomiting. Promptly drink a large quantity of milk, egg whites, or gelatin solution. If these are not available, drink large quantities of water. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center.
- If inhaled: Move victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth, and get medical attention.
- If on skin: Wash with plenty of soap and water. Get medical attention.

Note to Physician: If ingested, lavage stomach to avoid aspiration. Give a saline laxative and supportive therapy.

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Storage

Store in a cool, dry place. Do not store this product under wet conditions. Handle outer packaging carefully to avoid breakage of inner soluble packets.

Chemigation

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

Ciba Plant Protection
Ciba-Geigy Corporation
Greensboro, North Carolina 27419

CGA 130L2A 013

Product ID: 59110

Ciba-Geigy

[GANNONC.LABELT]TILT-WPF - 7/14/93