

PM-21

Reg # 100-617

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Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 05-31-98



United States
Environmental Protection Agency
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number
246852

Application for Pesticide - Section I

1. Company/Product Number 100-617	2. EPA Product Manager Connie Welch	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Tilt® SI Fungicide	PM# 21	
5. Name and Address of Applicant (Include ZIP Code) Ciba-GEigy Corporation Ciba Crop Protection P O Box 18300 Greenboro, NC 27419 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Tilt SI, alternate brand name for Tilt Fungicide, current marketing label.
NOTIFICATION
NOV 7 1996

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted	If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Charles A. S. Pearson	Title Senior Regulatory Manager	Telephone No. (Include Area Code) (910) 632-7734
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature <i>Charles A. S. Pearson</i>	3. Title Senior Regulatory Manager	
4. Typed Name Charles A. S. Pearson	5. Date October 29, 1996	

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PULL HERE TO OPEN

Tilt[®] SI

One Gallon
U. S. Standard Measure
FUNGICIDE

For control of certain diseases
in celery, cereals, and corn

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%

EPA Reg. No. 100-617

EPA Est. 5905-GA-01[Ⓢ], EPA Est. 67517-MO-1[Ⓢ],
EPA Est. 34704-MS-2[Ⓢ], EPA Est. 67545-AZ-1[Ⓢ]
(Superscript is first letter of lot number on jug)

**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. CGA 192L2 096



NOTIFICATION

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. 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, such as barrier laminate or viton
- Shoes plus socks
- Protective eyewear

General information

Tilt SI is a broad spectrum fungicide for the control of certain diseases in wheat, barley, rye, celery, and corn.

Important: Do not use in nurseries, on turf, 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% of tank volume per minute. Use a jet agitator or liquid sparge tube for agitation. Do not air sparge.

Although Tilt SI is an emulsifiable 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 agricultural experiment station recommendations.

Application Instructions

Aerial Application: For those crops where aerial applications are indicated, apply in a minimum of 5 gals. of water per acre, 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 SI by ground equipment in a minimum of 15 gals. of water per acre.

Mixing Instructions

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.

Important: For wheat, barley, and rye, custom applicators must use a closed system for mixing and loading this product.

Tilt SI Alone: Add $\frac{1}{2}$ - $\frac{2}{3}$ of the required amount of water to the spray or mixing tank. With the agitator running, add the Tilt SI to the tank. Continue agitation while adding the remainder of the water. Begin application of the spray solution after the Tilt SI has completely dispersed into the mix water. Maintain agitation until all of the mixture has been sprayed.

Tilt SI + Tank Mixtures: Tilt SI is usually compatible with all tank mix partners listed on this label. To determine the physical compatibility of Tilt SI with 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, 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 Tilt SI to the spray tank. Allow the Tilt SI to completely disperse. Spray the mixture with the agitator running.

If using Tilt SI in a tank mixture, observe all directions for use, crops/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 registered.

Rotational Crops

Soybeans may be planted as a double crop following a cereal crop which has been treated with Tilt SI. 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 SI application to the preceding crop, unless the second crop appears on this label.

Celery

For control of early blight (*Cercospora*) and late blight (*Septoria*), apply 4 fl. oz. of Tilt SI per acre on a 7-day schedule, either by ground or aerial application. If desired, Tilt SI may be tank-mixed with an appropriate spreader-sticker.

Notes: To avoid possible illegal residues, (1) Do not apply more than 16 fl. oz. of Tilt SI per crop (4 applications), and (2) Do not apply during the last 14 days before harvest.

Cereals

Wheat, Barley, and Rye

In wheat, barley, and rye, Tilt SI 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 4 fl. oz. of Tilt SI per acre by ground or aerial application. Highest yields are normally obtained when Tilt SI is applied to the emerging flag leaf. Tilt SI 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 SI may be applied earlier if disease symptoms appear (especially applicable to barley).

For control of foot rot (*Pseudocercospora* spp.), apply 4 fl. oz. of Tilt SI per acre plus half rates of other EPA-registered fungicides, such as Benlate®, Mertect®, and Topsin® M. Apply at tillering, but before elongation has occurred.

Do not apply more than 4 fl. oz. of Tilt SI per season.

Note: Apply Mertect and Topsin M to wheat only.

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.

Corn (Field Corn, Field Corn Grown for Seed, Sweet Corn, and Popcorn)

For control of Helminthosporium leaf blights (*Helminthosporium maydis*, *H. turcicum*, and *H. carbonum*), rusts (*Puccinia* spp.), gray leaf spot (*Cercospora zeae-maydis*), and eye spot (*Kabatiella zeae*), apply Tilt SI according to the following schedule:

Helminthosporium Leaf Blights: Apply 2-4 fl. oz. of Tilt SI per acre when disease first appears and continue on a 7 to 14-day schedule.

Rusts: Apply 4 fl. oz. of Tilt SI per acre when rust pustules first appear and continue on a 7 to 14-day schedule.

Gray Leaf Spot and Eye Spot: Apply 4 fl. oz. of Tilt SI per acre when disease first appears. If conditions favorable for disease persist, continue to apply on a 14-day schedule.

Important: To avoid possible illegal residues: (1) Do not apply Tilt SI to field and field corn grown for seed after silking. (2) Do not apply more than 16 fl. oz. of Tilt SI per acre per season. (3) Do not apply to sweet corn within 14 days of harvest. (4) Do not harvest field corn, field corn grown for seed, or popcorn for forage within 30 days of application. (5) Do not harvest sweet corn for forage within 14 days of application.

Storage and Disposal

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

Triple rinse container (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. 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**

This product may cause skin sensitization reactions in certain individuals.

Causes eye irritation. Do not get in eyes, on skin, or on clothing. Harmful if swallowed, inhaled, or absorbed through skin. Avoid breathing spray mist.

Statement of Practical Treatment

If in eyes: Flush with plenty of water. Get medical attention if irritation persists.

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

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 immediately.

If inhaled: Move victim to fresh air.

Note to Physician: There is no specific antidote for this product. Induce emesis or lavage stomach, taking care to avoid aspiration of stomach contents into lungs. Give a saline laxative and supportive therapy.

Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category G 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 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. 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. Do not contaminate water when disposing of equipment wash waters. Refer to product labeling for use restrictions to protect endangered species.

Physical or Chemical Hazards

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

Tilt® trademark 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 Penwalt Corporation

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Ciba Crop Protection
Ciba-Geigy Corporation
Greensboro, North Carolina 27419
CGA 192L2 096

Tilt® SI



FUNGICIDE

For control of certain diseases in celery, cereals, and corn

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%

EPA Reg. No. 100-617

EPA Est. 5905-GA-01[Ⓢ]

EPA Est. 67517-MO-1[Ⓢ]

EPA Est. 34704-MS-2[Ⓢ]

EPA Est. 67545-AZ-1[Ⓢ]

(Superscript is first letter of lot number on jug)

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.

Tilt® trademark of
Ciba-Geigy Corporation

One Gallon
U. S. Standard Measure

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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Hazards to Humans and Domestic Animals

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If inhaled: Move victim to fresh air.

Note to Physician: There is no specific antidote for this product. Induce emesis or lavage stomach, taking care to avoid aspiration of stomach contents into lungs. Give a saline laxative and supportive therapy.

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Physical or Chemical Hazards

Do not use, pour, spill, or store near heat or open flame. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

Chemigation

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

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