



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

EPA Reg. Number:

100-780

Date of Issuance:

JUL 25 1996

Term of Issuance:

Conditional

Name of Pesticide Product:

Tilt® 45W

NOTICE OF PESTICIDE:  
 Registration  
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Charles A. S. Pearson, Ph.D.  
Ciba Crop Protection  
Ciba-Geigy Corporation  
P. O. Box 18300  
Greensboro, NC 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 conditionally 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. Change the restricted entry interval to 12 hours because this is the appropriate time period for products bearing the signal word "Caution".
3. Submit five copies of the final printed label for the record.

- 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 enclosed for your records.

Signature of Approving Official:

*Connie B. Welch*  
Connie B. Welch, PM 21

Date:

7/25/96

WPS  
MARKETING LABEL  
BOOKLET

Tilt® 45W

FUNGICIDE

For control of certain diseases in celery, cereals, corn, grasses  
grown for seed, peanuts, pineapples, and sugarcane

Active Ingredient: Propiconazole:	
1-[[2-(2,4-dichlorophenyl)-4-propyl- 1,3-dioxolan-2-yl]methyl]-1H-1,2,4- triazole .....	45%
Inert Ingredients:	55%
Total:	100%

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use  
inside booklet.

This outer protective container contains Tilt 45W in an inner  
water-soluble bag. Entire inner bag and contents dissolve in  
water. After opening outer container, immediately drop entire  
unopened inner bag into the partially filled sprayer or mix tank.  
Do not handle the soluble bag or expose it to moisture since this  
may cause rupturing.

EPA Reg. No. 100-  
EPA Est. 100-AL-1

20 oz.  
Net Weight

4 oz.  
Net Weight

CGA (20 oz.)  
CGA (4 oz.)

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

JUL 25 1996

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
100-780

[GANNONC.LABELT\LBL-MS-T]TILT45W - 5/15/95



**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.

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**Conditions of Sale and Warranty**

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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.

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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.

**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
- Waterproof gloves
- Shoes plus socks

**General Information**

Tilt 45W is a broad spectrum fungicide for the control of certain diseases in wheat, barley, rye, rice, wild rice, celery, corn, peanuts, pineapple, sugarcane, and in grasses grown for seed.

**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 percent of tank volume per minute. Use a jet agitator or liquid sparge tube for agitation. Do not air sparge.

Use screens 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 45W by ground equipment in a minimum of 15 gals. of water per acre.

## Application Through Irrigation Systems - For Southern Stem Rot Control in Peanuts

Tilt 45W, alone or in combination with other pesticides which are registered for application through irrigation systems, may be applied through irrigation systems. Apply this product only through center pivot, solid set, hand move, or moving wheel, irrigation systems. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

**Note:** Do not inject Tilt 45W at full strength or deterioration of valves and seals may occur. Use a dilution ratio of at least 10 parts water to 1 part Tilt 45W. Tilt 45W is corrosive to many seal materials. Leather seals are best. EPDM or silicone rubber seals can be used, but should be replaced once a year. Do not use Viton, Buna-N, Neoprene or PVC seals.

### Operating Instructions

1. The system must contain a functional check-valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the

water pressure decreases to the point where pesticide distribution is adversely affected.

6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended.

#### **Center Pivot Irrigation Equipment**

**Notes:** (1) Use only with drive systems which provide uniform water distribution. (2) Do not use end guns when chemigating Tilt 45W through center pivot systems because of non-uniform application.

- Determine the size of the area to be treated.
- Determine the time required to apply 1/4-1/2 inch of water over the area to be treated when the system and injection equipment are operated at normal pressures as recommended by the equipment manufacturer. Run the system at 80-95% of the manufacturer's rated capacity.
- Using water, determine the injection pump output when operated at normal line pressure.
- Determine the amount of Tilt 45W required to treat the area covered by the irrigation system.
- Add the required amount of Tilt 45W and sufficient water to meet the injection time requirements to the solution tank.
- Make sure the system is fully charged with water before starting injection of the Tilt 45W solution. Time the injection to last at least as long as it takes to bring the system to full pressure.
- Maintain constant solution tank agitation during the injection period.
- Continue to operate the system until the Tilt 45W solution has cleared the sprinkler head.

#### **Solid Set, Hand Move and Moving Wheel Irrigation Equipment**

- Determine the acreage covered by the sprinklers.
- Fill injector solution tank with water and adjust flow rate to use the contents over a 20 to 30-minute interval.
- Determine the amount of Tilt 45W required to treat the area covered by the irrigation system.
- Add the required amount of Tilt 45W into the same quantity of water used to calibrate the injection period.
- Operate the system at the same pressure and time interval established during the calibration.
- Stop injection equipment after treatment is completed. Continue to operate the system until the Tilt 45W solution has cleared the last sprinkler head.

**Application Notes for Southern Stem Rot Control on Peanuts:**

**Irrigation:** When applying Tilt 45W in irrigation water for Southern Stem Rot Control of Peanuts, use a minimum of 0.25-0.5 inches of irrigation water per acre. Use enough water so that the fungicide penetrates the peanut canopy and reaches the crown of the plant where *Sclerotium rolfsii* is most active.

**Ground Application:** When applying Tilt 45W by ground equipment, use a minimum of 20-60 GPA directed to the crown of the plant where *Sclerotium rolfsii* is most active. For best disease control, the higher carrier volume is recommended. Canopy openers also may be used to improve fungicide placement.

**When applying Tilt 45W via irrigation or as a directed ground application, additional methods should be employed for leaf spot control.**

**Banded Application:** For banded applications, the treated area is the area covered by the band, not total cropland planted. The following formula can be used to calculate the amount of Tilt 45W needed per acre of crop when banded applications are made.

$$\frac{\text{band width in inches}}{\text{row spacing in inches}} \times \text{broadcast rate per acre} = \text{amount needed per acre of field}$$

**Mixing Instructions**

Prepare no more spray mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. Vigorous agitation is necessary to maintain uniformity of the spray mixture. 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.

*Precaution: Water-soluble bags of Tilt 45W must be completely dissolved and dispersed in plain water before any other tank mix partner, including micronutrients or other liquid or dry fertilizers, are added to the spray solution. Boron, especially in the form of a micronutrient additive, such as Solubor®, etc., or as a natural component of the mix water, may prevent water soluble bags from dissolving.*

**Tilt 45W Alone:** Add 1/3 of the required amount of plain water to the spray or mixing tank. With the agitator running, drop the required number of **unopened** soluble bags of Tilt 45W into the tank all at once. Continue agitation while adding the remainder of the water. Begin application of the spray solution after the soluble bags have dissolved, and the material has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

**Tilt 45W + Tank Mixtures:** Tilt 45W is usually compatible with all tank mix partners listed on this label. Add 1/3 of the required amount of plain water to the spray or mixing tank. With the agitator running, drop the required number of unopened soluble bags of Tilt 45W into the tank all at once. Continue agitation while adding the remainder of the water. Allow the soluble bags of Tilt 45W to dissolve and the desired amount of other products recommended for tank mixture and allow them to become completely dispersed. Continue agitation to maintain a uniform suspension until all of the spray solution has been applied.

If using Tilt 45W 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 45W. 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 45W application to the preceding crop, unless the second crop appears on this label.

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**Celery**

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For control of early blight (*Cercospora*) and late blight (*Septoria*), apply 0.25 lb. of Tilt 45W per acre on a 7-day schedule either by ground or aerial application. If desired, Tilt 45W may be tank-mixed with an appropriate spreader-sticker.

**Notes:** To avoid possible illegal residues, (1) Do not apply more than 1.0 lb. of Tilt 45W per crop (4 applications), and (2) Do not apply during the last 14 days before harvest.

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**Cereals**

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**Wheat, Barley, Rye**

In wheat, barley, and rye, Tilt 45W 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 0.25 lb. of Tilt 45W per acre by ground or aerial application. Highest yields are normally obtained when Tilt 45W is applied to the emerging flag leaf. Tilt 45W 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 45W may be applied earlier if disease symptoms appear (especially applicable to barley).

For control of foot rot (*Pseudocercospora* spp.), apply 0.25 lb. of Tilt 45W 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.

**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.

**Rice**

In rice, Tilt 45W controls sheath blight (*Rhizoctonia solani*), brown leaf spot (*Helminthosporium oryzae*), narrow brown leaf spot and brown blotch (*Cercospora oryzae*), leaf smut (*Entyloma oryzae*), sheath spot (*Rhizoctonia oryzae*), and black sheath rot (*Gaeumannomyces graminis*). Tilt 45W also suppresses stem rot (*Sclerotium oryzae*). Apply Tilt 45W on either of the following schedules as an aerial spray in 5-10 gals. of water per acre:

- A. 0.375 lb./A 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 45W provides best control of sheath blight when the first application is applied at disease appearance in the field. The first application is recommended when 5 percent or fewer of the tillers are infected.
- B. 0.625 lb./A at first internode elongation (up to 2-inch panicle). The 0.625 lb. rate is recommended if greater than 10 percent of the tillers are infected with sheath blight. If disease reappears, use another registered fungicide for the second application.

**Important:** 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 CA.

**Endangered Species Restrictions:** The use of Tilt 45W (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 AR:

**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'Anguille River (Lee County).

**Wild Rice (MN only)**

For control of *Helminthosporium* leaf blight and brown spot (*Bipolaris* spp.), apply 0.375 lb. of Tilt 45W per acre at both booting and heading, or make a single application of 0.5 lb./A. booting. For aerial applications, apply in a spray volume of 5-10 gals./A.

**Important:** Do not use water drained from treated fields to irrigate other crops.

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

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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 45W according to the following schedule:

**Helminthosporium Leaf Blights:** Apply 0.125-0.25 lb. of Tilt 45W per acre when disease first appears and continue on a 7 to 14-day schedule.

**Rusts:** Apply 0.25 lb. of Tilt 45W per acre when rust pustules first appear and continue on a 7-14 day schedule.

**Gray Leaf Spot and Eye Spot:** Apply 0.25 lb. of Tilt 45W 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 45W to field and field corn grown for seed after silking. (2) Do not apply more than 1 lb. of Tilt 45W 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.

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

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Tilt 45W controls rusts (*Puccinia* spp.), powdery mildew (*Erysiphe* spp.), and *Selenophoma* stem eyespot (*Selenophoma*) in perennial ryegrass, fescues, bluegrass, orchardgrass, and/or wheatgrasses.

Mix 0.25-0.5 lb. of Tilt 45W (maximum 0.25 lb. on bluegrass) in a minimum of 20 gals. of water per acre for ground application, or in a minimum of 10 gals. of water per acre for aerial application. Apply when powdery mildew and *Selenophoma* infections of 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 0.5 lb./A (except on bluegrass), and make applications at 14-day intervals until the seed is mature. Do not apply more than 2 lb. of Tilt 45W per acre 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.

**Important:** 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.

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**Peanuts**

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**Peanuts - Tilt 45W Alone For Foliar Disease Control**

**Late Leaf Spot (*Cercosporidium*)** - Apply 0.25 lb. of Tilt 45W per acre beginning applications 35-40 days after planting or at the first appearance of disease. Continue applications on a 10-14 day schedule. Tilt 45W also may be used in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.

**Early Leaf Spot (*Cercospora*)** - Apply 0.16-0.25 lb. of Tilt 45W per acre beginning applications 35-40 days after planting or at the first appearance of disease. Continue applications on a 14-day schedule. Under heavy disease pressure use higher recommended application rates. Tilt 45W also may be used in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.

**Important:** To avoid possible illegal residues: (1) Do not apply more than 1 lb. Tilt 45W per acre per season. (2) Do not feed green vines to livestock or graze livestock in treated area. (3) Do not apply within 14 days of harvest.

**Peanuts - Tilt 45W Plus Chlorothalonil For Foliar Disease Control**

**Early and Late Leafspot** - Combinations of Tilt 45W with products containing chlorothalonil may be used for early and late leaf spot control. Apply 0.125 lb. of Tilt 45W as a tank mixture with 0.75 lb. active ingredient chlorothalonil per acre. Use the following table as a guide to determine the appropriate amount of chlorothalonil to use in the tank mixture. Begin applications 35-40 days after planting or at the first appearance of disease and continue applications on a 10-14 day schedule. Tilt 45W plus chlorothalonil also may be used in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.

**Important:** Use the following table as a guide to determine the amount of product needed for the recommended tank mix ratios of Tilt 45W with various chlorothalonil formulations. To avoid possible illegal residues: (1) Do not apply more than 1 lb. of Tilt 45W per acre per season. (2) Do not apply within 14 days of harvest. (3) Do not graze livestock in treated area. (4) Do not feed hay or threshings from treated fields to livestock.

		Amount of chlorothalonil product required for treated area by formulation type (total acres to be treated)	
Number of acres to be treated	Amount of Tilt 45W required for treated area (total acres to be treated)	6 lbs. ai per Gallon	4.17 lbs. ai per Gallon
10	1.25 lb.	10 pts.	15 pts.
50	6.25 lb.	50 pts.	75 pts.
100	12.5 lb.	100 pts.	150 pts.

**Peanuts - Tilt 45W Alone for Southern Stem Rot Control**

For the control of Southern Stem Rot (*Sclerotium rolfsii*), apply Tilt 45W using one of the following schedules:

- A. Apply 0.25 lb. of Tilt 45W per acre to the crown and pegging zones of the plant using chemigation or directed ground application. Begin applications 45 days after planting, or at the first appearance of disease, and repeat on a 14-day schedule.

**Important:** To avoid possible illegal residues: (1) Do not apply more than 1 lb. Tilt 45W per acre per season. (2) Do not feed green vines to livestock or graze livestock in treated area. (3) Do not apply within 14 days of harvest.

- B. Apply 0.5 lb. Tilt 45W per acre to the crown and pegging zones of the plant using chemigation or directed ground application. Make two applications: the first at pegging (approximately 60 days after planting) or at the first appearance of disease, and the second application 3-4 weeks later.

**Important:** To avoid possible illegal residues: (1) Do not apply more than 1 lb. Tilt 45W per acre per season. (2) Do not graze livestock in treated area. (3) Do not feed hay or threshings from treated fields to livestock. (4) Do not apply within 21 days of harvest.

**Pineapple (Hawaii only)**

For control of butt rot disease of pineapple (*Ceratocystis paradoxa*), apply 0.25 lb. of Tilt 45W/500 gals. of water. Treatments can be made in either a cold or hot water dip.

**Cold Water Dip:** Immerse crowns to give thorough wetting, remove and allow to drain.

**Hot Water Dip:** Maintain water temperature at 125°F (52°C). Soak crowns for 20-30 minutes, remove and allow to drain.

**Important:** To avoid possible illegal residues: (1) Do not use treated crowns for food or feed. (2) Do not graze while plant is growing. (3) Do not graze tops until fruit is harvested. (4) Dispose of used dip solution according to local, state, and federal regulations.

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**Sugarcane (Hawaii only)**

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For control of pineapple disease of sugarcane (*Ceratocystis paradoxa*), apply Tilt 45W to cut seed pieces using 0.25 lb./500 gals. of water. Treatments can be applied in either a cold or hot water dip. Do not use treated seed pieces for food or feed purposes. Dispose of spent dip solution according to state and federal regulations.

**Cold Water Dip -** Immerse seed pieces to give thorough wetting, remove, and allow to drain.

**Hot Water Dip -** Maintain water temperature at 125°F (52°C). Soak the seed pieces for 20-30 minutes, remove, and allow to drain.

**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**

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

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to

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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**

**CAUTION**

Causes eye irritation. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin, or on clothing.

**Statement of Practical Treatment**

**If in eyes:** Hold eyelids open and flush eyes with a steady, gentle stream of water for 15 minutes. Get medical attention if irritation persists.

**If swallowed:** Immediately call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

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

**Note to Physician:**

If ingested, induce emesis or lavage stomach. Treat symptomatically.





**Personal Protective Equipment**

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Waterproof gloves
- 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.

**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® 45W 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.

Solubor® trademark of United States Borax and Chemical Corporation

Topsin® trademark of Pennwalt Corporation

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

CGA	(20 oz.)	Product ID:
CGA	(4 oz.)	Product ID:

Product ID.  
Product ID.

RECEIVED  
FEB 18 1995  
CIBA-GEIGY CORPORATION  
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Tilt® 45W

FUNGICIDE

For control of certain diseases in celery, cereals, corn, grasses grown for seed, peanuts, pineapple, and sugarcane

Active Ingredient: Propiconazole:	
1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole	45%
Inert Ingredients:	55%
Total:	100%

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-  
EPA Est. 100-AL-1

20 oz.  
Net Weight

4 oz.  
Net Weight

Small, faint text or markings, possibly a barcode or registration information, located in the bottom right corner of the page.

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

**Precautionary Statements**

**Hazards to Humans and Domestic Animals**

Causes eye irritation. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin, or on clothing.

**Statement of Practical Treatment**

**If in eyes:** Hold eyelids open and flush eyes with a steady, gentle stream of water for 15 minutes. Get medical attention if irritation persists.

**If swallowed:** Immediately call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

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

**Note to Physician:**

If ingested, induce emesis or lavage stomach. Treat symptomatically.

**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. In event of 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.

