

100-737

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

AUG 18 2003

Ruhi Rezaaiyan
Regulatory Product Manager
Sygenta Crop Protection, Inc.
P.O. Box 18300
Greensboro, NC 27419-8300

Subject: Tilt® 428GS
EPA Reg. No. 100-737
Amendment dated February 4, 2003

Dear Dr. Rezaaiyan:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable provided the following changes are made:

1. Add an asterisk before the phrase "contains petroleum distillates" on pages 1 and page 13.
2. Delete the comma following the word "in" on page 8 in the sentence "Note: Do not use in, nurseries, on turf. . .".
3. Change the word "Tilt" to "Tilt 428GS" in all places where it appears on page 10.
4. Delete the phrase "For terrestrial uses" from the beginning of the second sentence in the environmental hazards section on pages 4 and 15. Capitalize the "d" in "do". This qualifying phrase is only needed when a label contains both aquatic and terrestrial uses.

A stamped copy is included for your records. Please submit one copy of the final printed label before the product is released for shipment. If you have any questions, please call Robert Westin at (703) 305-6700.

Sincerely,

A handwritten signature in cursive script that reads "Mary L. Waller".

Mary L. Waller
Product Manager 21
Fungicide Branch
Registration Division (7505C)

Enclosure

MARKETING BOOKLET/FRONT COVER

Tilt® 428GS
Fungicide

FOR USE IN OREGON ONLY

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

Active Ingredient:

Propiconazole: (CAS No. 60207-90-1)..... 41.8%

Other Ingredients*:..... 58.2%

Total:..... 100.0%

Contains petroleum distillates

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. 34704-MS-2 (1 gal.)
EPA Est. 40706-ND-002 (Bulk Bkt.)

Product of Switzerland
Formulated in the USA

SCP 737D-M2 (1 gal.)
SCP 737D-M3 (Bulk Bkt.)

1 gallon
Net Contents

15 gallons
Net Contents

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

AUG 18 2003

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

100-737

FIRST AID	
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Do not give any liquid to the person. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
NOTE TO PHYSICIAN	
If ingested, lavage stomach to avoid aspiration. Give a saline laxative and supportive therapy.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
HOT LINE NUMBER	
For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals**WARNING/AVISO**

Causes substantial, but temporary eye injury. Do not get in eyes, on skin, or on clothing. Harmful if swallowed, inhaled, or absorbed through skin. Avoid breathing spray mist. This product may cause skin sensitization reactions in certain individuals.

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. 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 and Chemical Hazards

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

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

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

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.

(For One Gallon)**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 Fifteen Gallons)**Container Refilling and Disposal**

Refer to label on container for refilling and disposal instructions.

(For One and Fifteen Gallons)

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.

GENERAL INFORMATION

Tilt 428GS is a broad spectrum fungicide for the control of certain diseases in wheat, barley, rye, triticale, oats and 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% of tank volume per minute. Use a jet agitator or liquid sparge tube for agitation. Do not air sparge.

Although Tilt 428GS 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 428GS by ground equipment in a minimum of 15 gals. of water per acre.

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.

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

Tilt 428GS 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 428GS to the tank. Continue agitation while adding the remainder of the water. Begin application of the spray solution after the Tilt 428GS has completely dispersed into the mix water. Maintain agitation until all of the mixture has been sprayed.

Tilt 428GS + Tank Mixtures: Tilt 428GS is usually compatible with all tank mix partners listed on this label. To determine the physical compatibility of Tilt 428GS 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 $\frac{1}{2}$ - $\frac{2}{3}$ 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 428GS to the spray tank. Allow the Tilt 428GS to completely disperse. Spray the mixture with the agitator running.

If using Tilt 428GS 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. 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 428GS. 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 428GS application to the preceding crop, unless the second crop appears on this label.

CEREALS (FOR USE IN OREGON ONLY)

Wheat, Barley, Rye, Triticale and Oats

Tilt 428GS controls leaf diseases caused by rusts (*Puccinia* spp.), powdery mildew (*Erysiphe* spp.), leaf blight and glume blotch (*Septoria* spp.), tan spot (*Pyrenophora tritici-repentis*), Helminthosporium leaf blight, spot blotch (*Bipolaris sorokiniana*), barley scald (*Rhynchosporium secalis*), and net blotch (*Pyrenophora teres*). Highest yields are normally obtained when Tilt 428GS is applied to the emerging flag leaf. Tilt can be applied until ligule of the flag leaf emerges, (Feekes flag stage 8). Do not apply after this stage to avoid possible illegal residues. Tilt may be applied earlier if disease symptoms appear (especially applicable to barley)

Tilt may be applied by ground or aerial application or through irrigation equipment.

Early season leaf disease suppression: Apply 2 – 4 fl. oz./acre of Tilt for suppression of tan spot, Septoria, and powdery mildew.

Foot rot (*Pseudocercospora* spp.) in wheat: Apply 4 fl. oz./acre of Tilt plus half rates of other EPA-registered fungicides such as Topsin® M. Apply at tillering, but before elongation has occurred. Do not apply more than 4 fl. oz. of Tilt per season.

Leaf disease control: Apply 4 fl. oz./acre of Tilt at first appearance of disease. Protecting the flag leaf is important for maximizing the potential yield.

Notes: To avoid possible illegal residues: (1) Do not apply more than 4 fl. oz./acre of Tilt per season. (2) Do not apply to oats within 40 days of harvest. (3) Do not graze, or feed livestock treated wheat, barley, triticale or rye forage or cut the green crop for hay or silage. After harvest, the straw from these crops may be used for bedding or feed. (4) Tilt-treated oat forage may be grazed, and oat forage and hay may be fed to livestock.

GRASSES GROWN FOR SEED (FOR USE IN OREGON ONLY)

Tilt 428GS controls rusts (*Puccinia* spp.), powdery mildew (*Erysiphe* spp.), and *Selenophoma* stem eyespot (*Selenophoma*) in perennial ryegrass, fescues, bluegrass, orchardgrass, and/or wheatgrasses.

Mix 4-8 fl. oz./acre of Tilt 428GS (maximum 4 fl. oz. 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 or rust pustules are noticeable and increasing in number, in late spring or early summer. Repeat at 14 to 21-day intervals. To maximize control under severe rust pressure, use the higher rate of 8 fl. oz./acre (except on bluegrass), and make applications at 14-day intervals until the seed is mature. Do not apply more than 32 fl. oz./acre. of Tilt 428GS 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 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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Topsin® trademark of Cerexagri, Inc.

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

Product of Switzerland
Formulated in the USA

14/17

Syngenta Crop Protection, Inc.
Greensboro, North Carolina 27409
www.syngenta-us.com

SCP 737D-M2 (1 gal.)
SCP 737D-M3 (Bulk Bkt.)

TILT 428 737-M2-M3 AMD DRAFT1 - rr - 08-11-03

Base Label

Tilt® 428GS
Fungicide

FOR USE IN OREGON ONLY

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

<i>Active Ingredient:</i>	
<u>Propiconazole: (CAS No. 60207-90-1).....</u>	<u>41.8%</u>
<u>Other Ingredients*:</u>	<u>58.2%</u>
<i>Total:</i>	100.0%

Contains petroleum distillates

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 directions for use in attached booklet.

<p>AGRICULTURAL USE REQUIREMENTS</p> <p>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.</p>
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EPA Reg. No. 100-737

EPA Est. 34704-MS-2

Net Contents

FIRST AID	
If in eyes	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Do not give any liquid to the person.• Do not induce vomiting unless told to do so by the poison control center or doctor.• Do not give anything by mouth to an unconscious person.
If inhaled	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.• Call a poison control center or doctor for further treatment advice.
NOTE TO PHYSICIAN If ingested, lavage stomach to avoid aspiration. Give a saline laxative and supportive therapy.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
HOT LINE NUMBER For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372	

Precautionary Statements

Hazards to Humans and Domestic Animals

Causes substantial, but temporary eye injury. Do not get in eyes, on skin, or on clothing. Harmful if swallowed, inhaled, or absorbed through skin. Avoid breathing spray mist. This product may cause skin sensitization reactions in certain individuals.

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

Chemigation

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

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Product of Switzerland
Formulated in the USA

Syngenta Crop Protection, Inc.
Greensboro, North Carolina 27409
www.syngenta-us.com

SCP 737D-M2 (1 gal.)
SCP 737D-M3 (Bulk Bklt.)