

100-949

7/8/2002

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

JUL - 8 2002

Ms. Michele A. Schulz  
NAFTA Fungicide Team Leader, Regulatory Affairs  
Syngenta Crop Protection, Inc.  
P.O. Box 18300  
Greensboro, NC 27419

Dear Ms. Schulz:

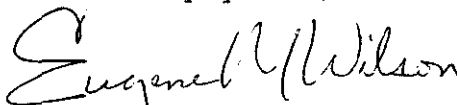
Subject: Palisade® EC  
EPA Registration No. 100-949  
Application and Your Letter Dated June 18, 2002,  
Request to Amend Registration by Revising the Labeling  
of Palisade EC To Comply with PR Notice 2002-1, To  
Delete the User Box Prohibiting Use on Other Grasses  
and To Amend Directions of Use on Perennial Ryegrass

The subject application to amend the registration of Palisade EC by revising the labeling to comply with PR Notice 2001-1, to delete the user box prohibiting use on other grasses and to amend "Directions of Use" on perennial ryegrass. The proposed amendments have been reviewed and found to be acceptable under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, provided that you:

- o Submit one (1) copy of the final printed label prior to your shipment of this pesticide product under the enclosed revised stamped label.

If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA, section 6(e). Your release for shipment under this labeling constitutes acceptance of this condition. A stamped copy of the label is enclosed for your records.

Sincerely yours,

*for*   
Joanne I. Miller  
Product Manager (23)  
Herbicide Branch  
Registration Division (7505C)

Enclosure

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Palisade EC First Aid, Deletion other grasses Notice to User  
Label Amendments June 2002

Palisade™ EC

For growth management of perennial ryegrass grown for seed in Idaho, Oregon,  
and Washington

Active Ingredient:

Trinexapac-ethyl (CAS No. 95266-40-3).....	12.0%
Other Ingredients:	88.0%
Total:	100.0%

Palisade EC is an emulsifiable concentrate.

EPA Reg. No. 100-949

EPA Est. 1386-OH-1

Product of Switzerland

Formulated in the USA

**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.

Gallons  
U.S. Standard Measure

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
JUL - 8 2002**

**Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
100-949**

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Palisade EC First Aid, Deletion other grasses Notice to User  
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<b>FIRST AID</b>	
<b>If inhaled</b>	<ul style="list-style-type: none"><li>-Move person to fresh air.</li><li>-If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li><li>-Call a poison control center or doctor for further treatment advice.</li></ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"><li>-Take off contaminated clothing.</li><li>-Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>-Call a poison control center or doctor for treatment advice.</li></ul>
<b>If in eyes</b>	<ul style="list-style-type: none"><li>-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.</li><li>-Call a poison control center or doctor for treatment advice.</li></ul>
<b>If swallowed</b>	<ul style="list-style-type: none"><li>-Call a poison control center or doctor immediately for treatment advice.</li><li>-Have person sip a glass of water if able to swallow.</li><li>-Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>-Do not give anything by mouth to an unconscious person.</li></ul>
<p style="text-align: center;"><b>HOT LINE NUMBER</b> For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call <b>1-800-888-8372</b></p>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<p style="text-align: center;"><b>NOTE TO PHYSICIAN</b></p> If ingested, lavage stomach with care to prevent aspiration of stomach contents. An aqueous suspension of activated charcoal can be given to absorb remaining toxicant.	

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## **PRECAUTIONARY STATEMENTS**

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### **Hazards to Humans and Domestic Animals**

#### **WARNING/AVISO**

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

### **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 or enclosed cabs 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**

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 water. Do not apply when weather conditions favor drift from treated areas.

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**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

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**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 Limitations 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 treated areas without footwear until sprays have dried. There is no restricted-entry interval (REI) requirement.

Observe all precautions and limitations on this label and on the labels of each product used in tank mixture with this product.

**FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR PERFORMANCE, CROP INJURY, OR ILLEGAL RESIDUES.**

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### STORAGE AND DISPOSAL

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#### Pesticide Storage and Disposal

Do not store below 0°F. If crystals do form, store above 70°F, shaking periodically until crystals are dissolved.

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Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment. Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, they must be disposed of according to Federal, state, or local procedures. Contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

### **Container Disposal**

Triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or if allowed by state and local authorities, dispose of by open burning. Stay out of smoke from burning container.

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

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### **GENERAL INFORMATION**

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For use on perennial ryegrass grown for seed in Idaho, Oregon, and Washington only.

Palisade EC slows the growth of grass stems when the product is applied as directed. This results in:

1. less potential for lodging
2. easier and more efficient seed harvest

Other benefits often seen are:

- potential to increase number of tillers
- improved pollination and seed set
- less straw in the combine
- less trash in harvested seed
- faster combining

Palisade EC is rapidly absorbed by the grass foliage. The product is rain fast an hour after application. The growth regulator effects of Palisade EC do not occur through soil uptake.



**APPLICATION METHODS**

**For growth management of perennial ryegrass grown for seed.**

The activity and performance of Palisade EC is primarily affected by: (1) environmental conditions, (2) crop management and cultural practices that affect perennial ryegrass growth and vigor, (3) fertility level, (4) moisture availability, (5) plant vigor, and (6) perennial ryegrass growth stage.

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

**Table 1. Palisade EC Application Rates and Timing**

Application Rate	Application Timing	Comments
1½ - 4 pts./A	<p>Before or during stem elongation stage of development (Zadoks growth stages 30-37 or Feekes stages 5-8)</p> <p><b>NOTE:</b> Although this product is effective at any time in this growth stage the BEST timing is early (Zadoks growth stage 32 or Feekes 7 when the second node on the main stem is detectable).</p>	<p>(1) Apply as a broadcast, foliar spray to actively- growing grass.</p> <p>(2) Use the high rate on heavy, lush stands.</p> <p>(3) Multiple applications during the growing season are allowed but <b>do not apply more than 4 pts./A per year.</b></p>

**Equipment**

Clean spray equipment thoroughly before use and use a sprayer that will deliver an accurate and uniform spray. Rinse sprayer with clean water after use and dispose of rinsate according to label directions.

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**Mixing Instructions**

- (1) Mix Palisade EC in enough water (10-20 gals./A) to thoroughly and uniformly cover the crop.
- (2) Mix only the amount needed for the immediate operation.
- (3) Agitate thoroughly before and during application.

**Note:** Tank mixtures are permitted only in those states where the tank mix partner is also registered.

**Palisade EC Alone**

- (1) Add  $\frac{1}{2}$ – $\frac{2}{3}$  of the required amount of water to the spray tank.
- (2) While agitating, add Palisade EC.
- (3) Continue agitation while adding the remainder of the water.
- (4) Maintain agitation until all of the mixture has been applied.

**Palisade EC + Tilt® Fungicide**

- (1) Add  $\frac{1}{2}$ – $\frac{2}{3}$  of the required amount of water to the spray tank.
- (2) While agitating, add Palisade EC followed by Tilt Fungicide.
- (3) Continue agitation while adding the remainder of the water.
- (4) Maintain agitation until all of the mixture has been applied.

**Note:** Observe all directions for use, precautions, and limitations which appear on the Tilt Fungicide label.

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**GRAZING INTERVAL**

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Do not graze livestock on treated area before 60 days after harvest.

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Palisade™, Tilt® and the Syngenta logo are trademarks of a Syngenta Group Company  
U.S. Patent No. 4,693,745  
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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

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