

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DEC 2 1991

Ms. Karen S. Stumpf  
Agricultural Division  
Ciba-Geigy Corporation  
P.O. Box 18300  
Greensboro, NC 27419

3400652 / 300  
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Dear Ms. Stumpf:

Subject: Amended Labeling  
Pace Turf Fungicide  
EPA Registration No. 100-690  
Your Submission Dated July 23, 1991

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable with the following comment:

- Under the Reentry section of the Re-entry and Worker Protection Statements, delete "for various crops" since this label is for turf use.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Susan T. Lewis  
Product Manager (21)  
Fungicide-Herbicide Branch  
Registration Division (H7505C)

Enclosure

H7505C:J.Fairfax:11/29/91:100-690

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

green-Pak®

Pace®

Turf Fungicide

For control of certain diseases in non-residential turf

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

DEC 6 1991

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

100-690

Active Ingredients:

Metalaxyl: N-(2,6-dimethylphenyl)-N-(methoxyacetyl) alanine methyl ester .....	7.0%
A coordination product of zinc ion and manganese ethylene bisdithiocarbamate .....	70.0%
in which the ingredients are:	
Manganese <sup>++</sup> .....	14.0%
Zinc <sup>++</sup> .....	1.7%
Ethylene bisdithiocarbamate ion (C <sub>4</sub> H <sub>6</sub> N <sub>2</sub> S <sub>4</sub> ) .....	54.3%

Inert Ingredients:	23.0%
Total:	100.0%

Pace is a wettable powder.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See directions for use and additional precautionary statements on panel at right.

See directions for use on back of carton.

EPA Reg. No. 100-690

EPA Est. 10163-AZ-1

This outer protective carton contains Pace in an inner water soluble bag. Entire inner bag and contents dissolve in water. After opening outer carton, immediately dump 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.

Two Pounds  
Net Weight

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.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

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

General Information

Pace Turf Fungicide, a fungicide that has both systemic and contact properties, controls Pythium blight and yellow tuft (downy mildew) in turfgrasses, and downy mildew in St. Augustinegrass. When used in a preventative program to control Pythium blight and yellow tuft, Pace will also provide control of brown patch, dollar spot and Helminthosporium-type diseases.

Note: Research has shown that the ingredients in Pace can provide synergistic activity against Pythium blight. In addition research has demonstrated that when properly managed, the use of fungicides with different sites of action reduces the likelihood of resistance developing. As with many turf fungicides, however, the use of Pace could result in development of resistant strains of fungi. If resistance does develop, CIBA-GEIGY cannot assume liability for resulting turf damage. If treatment is not effective following the use of Pace as recommended, a resistant strain of fungi may be present or the disease may have been misdiagnosed. Consideration should then be given to the prompt use of other types of suitable fungicides. Consult with your State Agricultural Experiment Station or Extension Service Specialist for guidance in your particular crop and disease control situation.

Re-entry and Worker Protection Statements

IMPORTANT NOTE REGARDING USE ON GOLF COURSES: THE FOLLOWING REENTRY STATEMENT APPLIES TO ALL USES OF PACE ON NONRESIDENTIAL TURF, WITH THE EXCEPTION OF GOLF COURSES. WHERE PACE IS USED TO TREAT TURF ON A GOLF COURSE, THE 24-HOUR REENTRY RESTRICTION DOES NOT APPLY. HOWEVER, SPRAYS MUST BE DRY BEFORE GOLFERS CAN ENTER THE TREATED AREA. GOLF COURSE MAINTENANCE PERSONNEL MUST WEAR THE PERSONAL PROTECTIVE EQUIPMENT LISTED BELOW UNDER WORKER PROTECTION WHEN MIXING, LOADING, APPLYING, OR REENTERING THE AREA BEFORE SPRAYS HAVE DRIED.

REENTRY

Do not enter treated areas without protective clothing until sprays have dried. After sprays have dried, do not enter or allow entry into treated areas until the 24-hour re-entry interval has expired unless wearing the personal protective equipment listed on this label. (See IMPORTANT NOTE above regarding use on golf courses.) Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Written warnings must include the following information:

CAUTION

(Insert area or field description) treated with Pace Turf Fungicide on (insert date of application). Do not enter treated areas without protective clothing until sprays have dried. After sprays have dried, do not enter or allow entry into treated areas until the 24-hour reentry interval has expired unless wearing the personal protective equipment listed on this label. In case of accidental exposure: Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to Pace and describe his condition. For further information, see the "Statement of Practical Treatment" immediately.

Oral warnings must include the same information that is in the written warnings.

WORKER PROTECTION

WORKER SAFETY RULES: Keep all unprotected persons, children, livestock and pets away from treated area or where there is danger of drift. Do not rub eyes or mouth with hands. (See Statement of Practical Treatment.)

PERSONAL PROTECTIVE EQUIPMENT: For Mixers, Loaders, Applicators, and Early Re-entry Workers.

HANDLE THIS PRODUCT ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT: a long-sleeved shirt and long pants or a coverall that covers all parts of the body except the head, hands, and feet, chemical-resistant gloves and footgear, socks,

and goggles\* or a face shield\*. During mixing and loading, a chemical-resistant apron must also be worn.

\*Mowers do not have to wear goggles or a face shield when entering the treated area before sprays have dried.

During application from a tractor with a completely enclosed cab with positive pressure filtration, or aurally with an enclosed cockpit, a long-sleeved shirt and long pants may be worn in place of the above protective clothing. Chemical-resistant gloves must be available in the cab or cockpit and worn while exiting.

**IMPORTANT!** Before removing gloves, wash them with soap and water. Always wash hands, face and arms with soap and water before eating, smoking or drinking. Always wash hands and arms with soap and water before using the toilet.

After work take off all clothes and shoes. Shower using soap and water. Wear only clean clothes. Do not use contaminated clothing. Wash protective clothing and protective equipment with soap and water after each use. Personal clothing worn during use must be laundered separately from household articles. Clothing and protective equipment heavily contaminated or drenched with mancozeb must be destroyed according to state and local regulations.

HEAVILY CONTAMINATED OR DRENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED.

During aerial application, human flaggers are prohibited unless in totally enclosed vehicles.

#### Mixing Instructions

Prepare no more spray mixture than is required for the immediate operation. Thoroughly clean spray equipment before using this product. Agitate thoroughly before and during application. Good bypass agitation is sufficient to keep Pace thoroughly mixed and in suspension. Flush spray tank thoroughly with water daily after use and dispose of pesticide rinsate by application to an already treated area.

**Notes:** (1) Soluble bags of Pace must be dissolved completely in water before any other tank mix partner, including micronutrients or other liquid or dry fertilizers are added to the spray solution. (3) Do not use with oils or adjuvants.

**Pace Alone:** Add 2/3 of the required amount of water to the spray or mixing tank. With the agitator running, drop the required number of unopened soluble bags of Pace into the tank. (One 2-lb. water-soluble bag of Pace will treat 5,000 sq. ft.) Continue agitation while adding the remainder of the water.

Pace + Tank Mixtures: For tank mix purposes, Pace is usually compatible with Banner®, Triumph®, Sprint®, Bayleton®, Daconil 2787®, D·z·n®, Fore®, Tersan LSR®, Tersan 1991® and Vorlan™. Add 2/3 of the required amount of water to the spray or mixing tank. With the agitator running, drop the required number of unopened soluble bags of Pace into the tank. Then add the desired amount of the selected tank mix partner(s) which are registered for use on turf.

If using Pace in a tank mixture, observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the respective tank mix product label. No label dosage rate should be exceeded and the more restrictive of the labels regarding precautions and limitations should be followed. This product cannot be mixed with any product containing a label prohibition against such mixing.

#### Application Instructions

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

Do not make applications when weather conditions favor drift from target area. Avoid spray overlap as turf injury may result.

#### Turf (Non-Residential Only)

Pythium blight and yellow tuft: Apply Pace as a preventative treatment using one 2 lb. bag to treat 5,000 sq. ft. in 6-10 gals. of water. During periods favorable for disease development, retreat at 7-14 day intervals. For maintenance treatments during periods of cooler weather, treatments can be extended to 21 days.

Under low to moderate disease pressure, Pace applied as a preventative treatment on a 7-14 day interval will provide control of brown patch, dollar spot and Helminthosporium-type pathogens.

Notes: (1) Do not graze treated areas. (2) Do not feed clippings to livestock. (3) Do not plant any crop which is not registered for use with metalaxyl in metalaxyl-treated soil for a period of 12 months.

#### Storage and Disposal

Storage - Store in a cool, dry place. Do not store this product under wet conditions.

Pesticide Disposal - Do not contaminate water, food or feed by storage or disposal, or cleaning of equipment. Open dumping is prohibited. Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

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

For minor spills, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures 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, inhaled or absorbed through skin. Avoid contact with skin, eyes, or clothing. Avoid breathing vapors or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Statement of Practical Treatment

If swallowed: 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 in eyes: Flush eyes with plenty of water. Call a physician if irritation persists.

If inhaled: Remove victim to fresh air.

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

Note to Physician

If Pace is ingested, induce vomiting or lavage stomach.

Environmental Hazards

This product is toxic to fish. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters.



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Bayleton® trademark of Mobay Chemical Corporation

Daconil 2787® trademark of ISK Biotech

Fore® trademark of Rohm and Haas

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Vorlan™ trademark of Mallinckrodt, Inc.

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Agricultural Division  
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Greensboro, North Carolina 27419

CGA  
CGA

November 29, 1988  
Revised January 16, 1989  
Revised September 18, 1989  
Metalaxyl FRSTR  
Revised November 21, 1990  
Changing package  
size  
Revised July 10, 1991 -  
adm. amendments

[GANNONC.LABELP]PACE-DRAFT  
7/3/91