

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

DEC 1 2003

Richard M. Gorrell
Bayer Environmental Science
95 Chestnut Ridge Road
Montvale, New Jersey 07645

Subject: Chipco® Signature™ Fungicide
EPA Registration No. 432-890
Your label amendment application dated June 26, 2003

Dear Mr. Gorrell,

The amended labeling referred to above, submitted in connection with its registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable provided that you:

1. Make the following changes to the label:
 - a. In the second sentence in the "PERSONAL PROTECTIVE EQUIPMENT" section change "chemical-resistant" to "chemical-resistance".
 - b. In the last sentence in the "Bentgrass Deadspot:" subsection of the "TURF TANK MIXTURES" section is a set of text that reads: "...program must be started prior to the appearance of the disease and that conditions are favorable for development of...". This does not make sense and must be reworded so that it does make sense.
2. Submit one copy of your final printed labeling before you release the product for shipment.

We also note that the first sentence in the "TANK TURF MIXTURES" section starts with "An Chipco® Signature™...". The first word should probably be "A". Also, in the trademark acknowledgments near the end of the label, one of the trademarks is attributed to "SIPCAM AGRO AGRO USA, Inc.". One of the "AGROs" is presumably redundant and should be deleted.

If the above conditions are not complied with, the registration may be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

If you have any questions about this letter, please contact John Bazuin at (703)305-7381.

Sincerely yours,

/s/
Cynthia Giles-Parker
Product Manager (22)
Fungicide Branch
Registration Division (7505C)

Attachment: Label stamped "ACCEPTED with COMMENTS"

CHIPCO[®] SIGNATURE[™] Fungicide

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ACTIVE INGREDIENT: Aluminum tris (O-ethyl phosphonate)..... 80.0%

OTHER INGREDIENTS:..... 20.0%

Total 100.0%

E. P. A. REG. NO. 432-890

E. P. A. EST. NO. 477-MD-01

65387-AR-002

KEEP OUT OF REACH OF CHILDREN CAUTION

For **MEDICAL** and **TRANSPORTATION** Emergencies **ONLY** Call 24 Hours A Day 1-800-334-7577.

For **PRODUCT USE** Information Call 1-800-331-2867.

FIRST AID

If swallowed:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to by a poison control center or doctor.
If in eyes:	<ul style="list-style-type: none">• Hold eyes 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.• 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 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 mouth-to-mouth if possible.• Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

PRECAUTIONARY STATEMENTS

CAUTION

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed or absorbed through the skin or inhaled. Causes moderate eye injury. Avoid contact with skin, eyes or clothing.

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 A on an EPA chemical-resistant category selection chart. Applicators and other handlers must wear long-sleeved shirt and long pants, chemical resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride, shoes plus socks, and protective eyewear.

Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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 PPE clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

with COMMENTS

Letter Dated:

DEC 1 2003

U.S. Federal Insecticide,
Fungicide and
Rodenticide Act

432-890

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic and estuarine invertebrates. Drift and runoff may be hazardous to aquatic and estuarine 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 by disposal of equipment washwaters.

DIRECTIONS FOR USE

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

Read entire label before using this product.

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 of 12 hours.

PE 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 made of any waterproof material, shoes plus socks, and protective eyewear.

NON AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Keep unprotected persons out of the treated areas until sprays have dried.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE:

Store in original container and keep tightly closed. Store in a cool dry place.

PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use 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.

CONTAINER DISPOSAL

PLASTIC CONTAINER: Triple rinse (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. If burned, stay out of smoke.

BAG: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

DIRECTIONS THROUGH SPRINKLER IRRIGATION SYSTEMS

Apply this product only through sprinkler irrigation systems including microjet, drip, solid set and center pivot. Do not apply this product through any other type of irrigation system.

SPRAY PREPARATION: Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

APPLICATION INSTRUCTIONS: First prepare a suspension of Chipco® Signature™ in a mix tank. Fill tank with 1/2 to 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Add the required amount Chipco® Signature™, and then the remaining volume of water. Then set sprinkler to deliver 0.1 to 0.3 inch of water per acre. Start sprinkler and uniformly inject the suspension of Chipco® Signature™ into the irrigation water line so as to deliver the desired rate per acre. The suspension Chipco® Signature™ should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing. If you should have any other questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

NOTE: For Microjet and Drip Irrigation Systems: When treatment with Chipco® Signature™ has been completed, further field irrigation over the treated area should be avoided for 24 to 48 hours. For Solid Set and Center Pivot Irrigation Systems: When treatment with Chipco® Signature™ has been completed, further field irrigation over the treated area should be avoided until foliage is dry to prevent washing the chemical off the plants.

GENERAL PRECAUTIONS FOR APPLICATIONS THROUGH SPRINKLER IRRIGATION SYSTEMS

Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension.

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. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. 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 shutdown. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. 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. 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.

Do not apply when wind speed favors drift, when system connection or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product must be dismantled and drained.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from nonuniform distribution of treated water. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation shall shut the system down and make necessary adjustments should the need arise. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label-prescribed safety devices for public water supplies are in place.

General Information

This product may cause staining. Avoid off-target sites such as sidewalks, patios, driveways, pavers, or similar materials. Rinse spray equipment thoroughly with warm water and detergent.

TURF

Chipco® Signature™ is a systemic fungicide, which may be used, in a seasonal program for the control of Pythium diseases, such as blight and root rot, and Yellow tuft on common turfgrasses on golf courses, sod farms and other commercial turf areas. Not intended for use on home lawns. Apply as a foliar spray, using 1 to 5 gallons of water per 1,000 sq. ft., as indicated in the table below. Apply with a properly calibrated sprayer.

DISEASE	INTERVAL OF APPLICATIONS	RATE OZ. PRODUCT/1,000 FT ²
Pythium diseases, Yellow Tuft	14 days	4.0
	21 days	8.0

Begin preventive applications when conditions first favor disease and repeat at recommended interval. Do not mow and/or water treated areas until foliage is completely dry. Maintain agitation during spray operations.

TURF TANK MIXTURES

An Chipco® Signature™ program encourages the development of a thick, vigorous turf stand that is better able to tolerate various stresses (heat, humidity, drying winds, traffic etc) that can have a negative effect on turf health. A thick, vigorous Chipco® Signature™ treated turf is better able to resist disease development and suppress the development of other pests such as weeds and algae.

Summer Stress Complex/Summer Decline: For control of Summer Stress Complex/Summer Decline caused by a complex of *Pythium* and *Rhizoctonia* diseases, Chipco® Signature™ can be tank-mixed with the products listed below for use on common turfgrasses on golf courses, sod farms, and industrial or municipal turf areas in accordance with the most restrictive of label limitations and precautions. Do not exceed label dosage rates. This product cannot be mixed with any product containing a label prohibition against such mixing.

Anthrachnose: For improved control of anthrachnose Chipco® Signature™ can be tank-mixed with the products listed for use on common turfgrasses on golf courses, sod farms, industrial or municipal turf areas in accordance with the most restrictive of label limitations and precautions. A preventative, multi-application (repeated every 14 days) program must be started prior to the appearance of the disease and the conditions favorable to anthrachnose.

Bentgrass Deadspot: For control of Bentgrass deadspot Chipco® Signature™ can be tankmixed with either Fore® Rainshield™ or Daconil Ultrex® for use on common turfgrasses on golf courses, sod farms, industrial or municipal turf areas in accordance with the most restrictive of label limitations and precautions. A preventative, multi-application (repeated every 14 days) program must be started prior to the appearance of the disease and that the conditions are favorable for development of Bentgrass deadspot.

PRODUCT	DISEASE	APPLICATION INTERVAL	RATE OZ. PRODUCT/1,000 FT ²
Chipco® Signature™ + 26GT™ or Daconil Ultrex® or Manicure™ DG or Dithane® T/O or Protect T/O or Mancozeb DG or Fore® WP or Heritage® or Banner® MAXX® or ProStar® 70WP	Summer Stress Complex (<i>Pythium</i> , <i>Anthracnose</i> , and <i>Rhizoctonia</i> spp.) and/or <i>Anthracnose</i> (<i>Colletotrichum</i> <i>graminicola</i>)	14 days	4.0 to 8.0 + 3.0 - 4.0 or 3.3 or 3.3 or 8.0 or 8.0 or 8.0 or 4.0 to 8.0 or 0.2 to 0.4 or 1.0 to 2.0 or 1.5 to 3.0
Chipco® Signature™ + Fore® Rainshield™ or Daconil Ultrex®	Bentgrass Deadspot (<i>Ophiosphaerella</i> <i>agrostis</i>)		4.0 + 8.0 or 3.2

The following fungicides are physically compatible with Chipco® Signature™ and may be substituted for the partner products listed above for use with Aliette® WDG in a Summer Stress Complex control program: Bayleton® 50¹, Cavalier 50WSB, Cavalier Flowable, Chlorostar, Cleary's 3336™ WP¹, Cleary's 3336™ F¹, Compass™, Concorde™ SST, Concorde™ DF, Consyst, Curalan® EG, Daconil® Weather Stik®¹, Daconil ZN®, Rainshield NT™, Eagle, Echo® 90DF, Echo® Flowable, Endorse™, Fluid Fungicide, Fungo® Flo, Fungo® 50WSB, MANhandle™, Manicure™ 6 Flowable, Manicure™ T/O Flowable, Manicure™ Ultrex®, Medallion®, Pentathlon®, Pentathlon® DF, Revere™ 4000, SysStar®, SysTec® 1998, SysTec® 1998 WDG, Systhane® WSP, Terrachlor® 75WP and 400¹, Terraguard® 50W, Terrazole 35% WP, Touche EG, Turfcide® 400, TwoSome™ Flowable Fungicide

¹ These products must be added to the tank first and allowed to disperse prior to the addition of Chipco® Signature™

Mixing Instructions

Except where noted above, it is generally best to add Chipco® Signature™ to your tank, prior to it's tank-mix partner. The order in which products are added to the tank can affect its ability to go into solution.

Apply as a foliar spray using 1 to 5 gallons of water per 1,000 sq.ft. Apply with a properly calibrated sprayer. Begin preventative applications when conditions first favor disease and repeat at recommended interval. Do not mow and/or water treated areas until foliage is completely dry. Maintain agitation during spray operations.

If a tank-mix with other fungicides is used, follow label directions for the use of that product and apply at the recommended rate for control of the target disease organism. Chipco® Signature™ is not compatible with the flowable formulations of Daconil 2787* or Fore fungicides. These products should not be combined for application.

COMPATIBILITY

Chipco® Signature™ may not be chemically compatible with foliar fertilizers or with copper-based fungicides and phytotoxicity may occur. Do not mix Chipco® Signature™ with any sticker, extender or wetting agent.

To determine the physical compatibility of Chipco® Signature™ with any other product, use a small container to mix a small amount (e.g. 1 pint) of spray solution, containing all ingredients in the same order and ratio as the anticipated use. If any indication of physical incompatibility develops, do not use this mixture for spraying. Indication of incompatibility usually appears within 5-15 minutes after mixing. Read and follow all directions and precautions on this label and on the labels of any products for which a tank mixture is being considered.

Chipco Signature is not physically compatible with flowable formulations of Daconil 2787® or Fore® fungicides, Bayleton® 50W, Rubigan™ A.S. and Spectro™ 90WDG as a tank mixture. These products should not be combined for application.

Do not graze animals on treated turf. Do not feed clippings from treated turf to livestock and poultry.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully.

However, because of manner of use and other factors beyond Bayer Environmental Science's control, it

is impossible for Bayer Environmental Science to eliminate all risks associated with the use of this product. As

a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

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NET CONTENTS: 5.5 lbs.

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Signature is a trademark of the Bayer AG.

Endorse is a trademark of Avesta.

Banner Maxx, Heritage, Daconil 2787, Daconil Ultrex, Daconil, Weather Stik, Daconil Zn, and Medallion are registered trademarks of Sygenta.

Dithane, Sythane and Fore are registered trademarks and Rainshield and Rubigan are trademarks of Dow Agrosciences Company.

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EPA Chipco® Signature™ (Master) Notification 9/26/02