



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

4EPA Reg.  
Number:  
100-718

Date of Issuance:  
APR 06 1992

NOTICE OF PESTICIDE:  
 Registration  
 Reregistration

(under FIFRA, as amended)

Term of Issuance:  
Conditional

Name of Pesticide Product:  
Subdue + WSP Turf  
Fungicide

Name and Address of Registrant (include ZIP Code):

Ciba-Geigy Corporation  
P.O. Box 18300  
Greensboro, North Carolina 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. Submit 12 month storage stability data at ambient warehouse conditions. This should be received by the Agency within 15 months after registration of this product.
3. Copies of the raw analytical data samples representing five batches of this product should be provided to the Agency within 12 months after registration of this product.

Signature of Approving Official:

Date:

APR 06 1992

Page 2

EPA Reg. No. 100-718

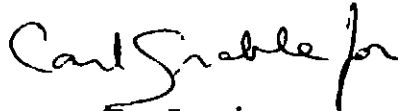
4. Make the following label change before you release the product for shipment: Add the phrase "EPA Registration No. 100-718".

5. Submit five copies of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 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.

Sincerely,



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

Enclosure

coursePak™

ACCEPTED  
with COMMENTS  
to EPA Letter Dated:

Subdue® + WSP

APR 08 1992

Turf Fungicide

For control of certain  
diseases in turf

Under the Fungicide Insecticide Act of 1947  
Subdue + WSP is registered for use as a fungicide  
registered under EPA Reg. No. 100-718

Active Ingredient:

Metalaxyl: N-(2,6-dimethylphenyl)-N-	
(methoxyacetyl) alanine methyl ester .....	25.0%
<u>Inert Ingredients:</u> .....	<u>75.0%</u>
Total:	100.0%

) Subdue + WSP is a wettable powder  
packaged in a water soluble bag.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See directions for use and additional  
precautionary statements on back of carton.

EPA Reg. No. 100-

EPA Est.

) This outer protective carton contains Subdue + WSP 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.

One Pound Four Ounces  
Net Weight

CGA 115L1 \_\_\_\_\_

CIBA-GEIGY

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.

---

Conditions of Sale and Warranty

---

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, TURF INJURY, AND/OR ILLEGAL RESIDUES.

General Information

Subdue + WSP is a systemic fungicide use for control of Pythium blight (P. aphanidermatum, P. ultimum) and downy mildew (Sclerophthora macrospora) on turf.

**NOTE:** Subdue + WSP is a systemic fungicide having a specific mode of action. Use of Subdue + WSP could result in development of resistant strains of fungi. Development of resistance cannot be predicted. Therefore, CIBA-GEIGY cannot assume liability for turf damage resulting from resistant strains of fungi. Consult with your State Agricultural Experiment Station or Extension Service Specialist for guidance and ways to control any possible Subdue + WSP resistant strains of fungi which may occur.

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 Subdue + WSP 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.

Note: Do not use with oils or adjuvants.

Subdue + WSP 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 Subdue + WSP into the tank. Continue agitation while adding the remainder of the water.

**BEST AVAILABLE COPY**

Subdue + WSP + Tank Mixtures: 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 Subdue + WSP into the tank. Then add the desired amount of the selected tank mix partner(s) which are registered for use on turf. Continue agitation while adding the remainder of the water.

Precaution: Soluble bags of Subdue + WSP must be dissolved completely in water before any other tank mix partner, including micronutrients or other liquid or dry fertilizers, is added to the spray solution.

If using Subdue + WSP 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.

#### Application Through Irrigation Systems

Overhead Irrigation Application: Subdue + WSP alone or in tank mixture with other pesticides which are registered for overhead application may be applied in irrigation water at rates recommended on this label. Apply this product only through an overhead irrigation system. Do not apply this product through any other type of irrigation system. Turf injury or lack of effectiveness can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension 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.

#### Operation 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

BEST AVAILABLE COPY

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 for treatment. Avoid spray overlap as turf injury may result.
8. Prepare a mixture with a minimum of 5 gals. of water to one soluble bag of Subdue + WSP and inject this mixture into the system. Injecting a larger volume of a more dilute mixture per hour will usually provide more accurate calibration of metering equipment. Maintain sufficient agitation to keep the fungicide in suspension.
9. Meter into irrigation water during the beginning of the irrigation cycle.

Precaution for irrigation applications: Where distribution patterns do not overlap sufficiently, unacceptable control may result. Where distribution patterns overlap excessively, injury to turf may result.

Turf

<p><b>Established Turf</b></p> <p>Pythium Blight Yellow Tuft Downy Mildew</p>	<p>Apply as a preventative treatment. Use 1 bag of Subdue + WSP per 20,000 sq. ft. on a 10-14 day schedule or 1 bag of Subdue + WSP per 10,000 sq. ft. on a 14-21 day schedule. Apply in 3-5 gallons of water per 1,000 sq. ft. During periods of severe disease pressure, use 1 bag per 10,000 sq. ft. every 14 days.</p>
<p><b>Newly Seeded Areas</b></p> <p>Pythium Damping Off Pythium Blight Yellow Tuft Downy Mildew</p>	<p>Apply as a preventative treatment. Use 1 bag of Subdue + WSP per 20,000 sq. ft. soon after seeding. Apply in 5-10 gallons of water per 1,000 sq. ft. In areas where disease pressure is severe, use 1 bag of Subdue + WSP per 10,000 sq. ft. Irrigate after application with 1/4 inch water. Retreat at 7-14 day intervals while conditions remain favorable for disease.</p>

To minimize the potential for resistance, (1) Make no more than **three** applications of Subdue + WSP per season and (2) Apply an EPA-registered fungicide not containing metalaxyl for Pythium control at least once during the season.



Storage - Store in a cool, dry place. Do not store this product under wet conditions. When stored at temperatures less than 50°F, handle outer carton carefully to avoid breakage of inner soluble bags.

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 are toxic. Improper disposal of unused pesticide, spray mixture, or rinsate is a violation of federal law. Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to federal, state or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

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 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

Harmful if swallowed, inhaled or absorbed through the skin. Causes eye irritation. Avoid contact with eyes, skin, or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing 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.

**BEST AVAILABLE COPY**

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

If inhaled: Remove victim to fresh air. Get medical attention.

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

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 waters.

Physical and Chemical Hazards

Do not use or store near heat or open flame.

coursePak<sup>™</sup> trademark of CIBA-GEIGY

Subdue® trademark of CIBA-GEIGY for metalaxyl.

©1991 CIBA-GEIGY Corporation

Agricultural Division  
CIBA-GEIGY Corporation  
Greensboro, North Carolina 27419

CGA 115L1

Initial Registration

[GANNONC.LABELS]SUBDUE\_PLUS\_TURF\_FUNG  
06/25/91