

Subdue[®] 5G

Fungicide

For the control of certain diseases
in ornamentals, turf, vegetable plant beds,
and nonbearing citrus, conifer, and nonbearing
deciduous fruit and nut trees in nurseries

ACCEPTED
SEP 13 1983
Under the Federal Insecticide, Fungicide, and
Rodenticide Act, as amended, this
product is registered for
EPA Reg. No. 100-646

25 pounds
Net weight

Active Ingredient:

METHOXYACETYL N-(2,6-dimethylphenyl)-N-	
(methoxyacetyl) alanine methyl ester	5.00%
Inert Ingredients:	95.00%
Total:	100.00%

Subdue 5G is a granular fungicide.

Keep Out of Reach of Children.

CAUTION

See additional precautionary statements
on back of bag.

See directions for use on back of bag.

EPA Reg. No. 100-646

EPA Est. 100-AL-1

Control No. 53960

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(LABELS-S.1 - SUBDUE5G/F3)

BEST AVAILABLE COPY

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.

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 OR CROP INJURY.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons except those knowingly involved in the application. The area being treated must be vacated by unprotected persons.

Reentry Statement

Do not enter treated areas without protective clothing until dust has settled.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agricultural for further information.

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 inform workers of areas or fields that may not be entered without specific protective clothing until dust has settled, and appropriate actions to take in case of accidental exposure, as described under Precautionary Statements on this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: "CAUTION. Area treated with Subdue 5G on (date of application). Do not enter without appropriate protective clothing until dust has settled. In case of accidental exposure, flush eyes or skin with plenty of water. Call physician if irritation persists. Remove and wash contaminated clothing before reuse."

General Information

Subdue 5G is a systemic fungicide for use on ornamentals, turf, vegetable plant beds, and nonbearing citrus, conifer and deciduous fruit and nut trees in nurseries.

Note: 1) Subdue is a systemic fungicide having a specific mode of action. Use of Subdue could result in development of resistant strains of fungi. Development of resistance cannot be predicted. Therefore, CIBA-GEIGY cannot assume liability for crop 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 resistant strains of fungi which may occur. 2) To help decrease the chance of downy mildew resistance, do not use Subdue for control of downy mildew diseases, except for use in turf. Use Subdue only as a soil application for control of soil-borne diseases.

Ornamentals

For control of damping-off, and root and stem rot diseases caused by Pythium and Phytophthora, use Subdue 5G Fungicide on container, bench, or bed-grown ornamentals in greenhouses or outdoor nurseries, and for professional use on ornamentals grown for indoor and outdoor landscaping. Use this product as a soil surface application on ornamentals at time of seeding and transplanting. Within a rate range given for a specific group of ornamentals, use the lower rate for the shortest interval listed and the higher rate for the longest interval. Under severe disease conditions, use the highest rate and the shortest interval specified.

When applying Subdue 5G to the soil surface, irrigate with enough water to completely wet the root zone after application. Do not exceed recommended rates or apply more frequently than directed, or plant injury may occur.

Notice to User: Plant tolerances to Subdue have been found to be acceptable for the specific genera and species listed on this label. Due to the large number of species and varieties of ornamentals and nursery plants, it is impossible to test every one for tolerance to Subdue. Neither the manufacturer nor the seller has determined whether or not Subdue can be used safely on ornamentals and nursery plants not specified on this label. The professional user should determine if Subdue can be used safely prior to commercial use. In a small area, test the recommended rates for a particular group of unlabeled plants, i.e., foliage plants, bedding plants, etc., for phytotoxicity prior to widespread use.

<p><u>Foliage Plants</u></p> <p>Aglanema Aphelandra Dieffenbachia Peperomia Philodendron* Pothos Schefflera Sedum Sempervivum Zygocactus</p>	<p><u>SOIL SURFACE</u>: Distribute 8-16 oz. uniformly over 1,000 sq. ft. of bed or bench area. Irrigate with enough water to thoroughly wet the root zone after application. Repeat applications at two to three month intervals if necessary.</p> <p>*On Philodendron, use 12-24 oz. per 1,000 sq. ft.</p> <p><u>Precaution: To minimize the potential for injury to Pothos, do not use more than 9 oz. and do not apply more frequently than once every 3 months.</u></p>
<p><u>Bedding Plants</u></p> <p>Ageratum Algerian Ivy Artemisia Aster Begonia Caladium Carnation Chrysanthemum Coleus Daisy, Shasta English ivy Foxglove Gaillardia Geranium Impatiens Marigold Pansy Petunia Phlox Pinks Primrose Prostrate Rose- mary Salvia Snapdragon Verbena Vinca Zinnia</p>	<p><u>At Transplanting (Soil 2-3 inches deep)</u>: Uniformly apply 6-12 oz. to 1,000 sq. ft. of bed area. Irrigate with enough water to thoroughly wet soil after application. Repeat applications at one to two month intervals if necessary. Do not apply rates of 9 oz. more than once every six weeks.</p> <p><u>Precaution: Do not apply to English ivy more than once every six months, or injury may occur.</u></p>

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<p><u>Flowers</u></p> <p>African violet Anthurium Baby's breath Carnation Chrysanthemum Columbine Delphinium Easter lily Geranium Gloxinia Poinsettia Rose</p>	<p><u>SOIL APPLICATION:</u> Uniformly apply 12-24 oz./1,000 sq. ft. Repeat application at one to two month intervals if necessary. Irrigate with enough water to thoroughly wet soil after application. Do not apply rates of 15 oz. more often than every six weeks.</p> <p><u>Precaution:</u> Do not apply more than 12 oz. to Easter lily and only make one at-planting application.</p>
<p><u>Azalea</u></p>	<p><u>SOIL APPLICATION:</u> Phytophthora root and crown rot - Uniformly apply 15-30 oz./1,000 sq. ft. of bed area. Irrigate with enough water to thoroughly wet the soil after application. Repeat applications at two to four month intervals if necessary.</p> <p><u>Precautions:</u> (1) To minimize the potential for injury to azaleas, do not apply repeat applications at rates greater than 30 oz. closer than every 3 months, and do not exceed a total of 50 oz. in 6 months. (2) Use the lower rate for "Corai Bell" variety."</p>

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Woody Ornamentals
Other Than Azalea

- Acuba japonica
- Arborvitae
- Boxwood
- Ceanothus
- Cotoneaster
- Dogwood
- Ficus
- Ilex
- "Halls"
- Honeysuckle
- Juniperus spp
- Photinia
- Pieris japonica
- Pinus spp.
- Pittosporum
- Rhododendron
- White cedar
- White pine
- Yew

SOIL APPLICATION: Uniformly apply 25-50 oz./1,000 sq. ft. Irrigate with enough water to thoroughly wet soil after application. Repeat applications at two to three month intervals if necessary. Do not apply rates greater than 40 oz. more often than once every ten weeks.

Precaution: Do not apply to Euonymus or injury may occur.

Citrus in Nurseries (Nonbearing)

Use Subdue 5G on nonbearing citrus for control of citrus foot rot, root rot, and trunk canker caused by Phytophthora spp. Apply to the soil as a broadcast application under the canopy of the trees. If rain is not expected within three days of application, water in with 1/2 inch of irrigation. For banded applications, use the formula below for calculating the amount of Subdue 5G needed per acre of trees.

Make the first application of Subdue 5G at the time of planting and make two additional applications at three-month intervals throughout the growing season. Apply 80 lbs./A as a broadcast or banded application to the seedbeds, liners or bedded stock. For banded applications, use a band wide enough to cover the root systems of the plants. Follow the application with 1/2 inch of irrigation if rainfall is not expected within three days.

Calculate the amount of Subdue 5G needed for band treatment by the formula:

$$\frac{\text{band width in inches}}{\text{row spacing in inches}} \times \text{broadcast rate per acre} = \text{amount needed per acre of field}$$

Conifers in Nurseries

Subdue 5G provides control of Phytophthora root rot of conifers.

Seedbeds and Plug-Plantings	Uniformly apply 12 1/2 lbs. Subdue 5G/acre in the spring and again in the fall.
2-0 Transplants	Uniformly apply 25 lbs. Subdue 5G/acre in the spring and again in the fall.

Deciduous Fruits and Nuts in Nurseries (Nonbearing)

Subdue 5G provides control of Pythium root rot and Phytophthora root, crown, and collar rot of nonbearing deciduous fruits and nuts.

Make the first application of Subdue 5G at the time of planting. Additional applications should be made at three-month intervals throughout the growing season.

Apply 80-160 lbs./treated acre (1.9-3.7 lbs./1,000 sq. ft.) uniformly under the canopy of the trees. Treat sufficient surface area in nurseries to cover the root zone of the trees. Use the high rate of Subdue 5G in areas known to be infested with Phytophthora.

Note: Do not apply to trees that will bear harvestable fruit within 12 months of application, or illegal residues may result.

Turf

Subdue 5G controls Pythium blight and Pythium damping-off in turf, yellow tuft (downy mildew) in bluegrass, and downy mildew in St. Augustinegrass. Within the rate range given for turf, use the lower rate for the shortest interval listed and the higher rate for the longest interval. Under severe disease conditions, use the highest rate and shortest interval specified.

<p>Established Turf: Pythium Blight Yellow Tuft Downy Mildew</p>	<p>Uniformly apply as a preventative treatment at 5-10 oz./1,000 sq. ft. Retreat at 10-14 day intervals during periods favorable for disease development. Irrigate with 1/4-1/2 inch water after application.</p>
<p>Newly Seeded Areas: Pythium Damping-Off Pythium Blight Yellow Tuft Downy Mildew</p>	<p>Uniformly apply 5-10 oz./1,000 sq. ft. immediately after seeding. Irrigate with 1/4-1/2 inch water. Re-treat at 7-14 day intervals if conditions remain favorable for disease.</p>

Note: Subdue 5G does not control cool season pythiums. Do not use Subdue 5G on turf until temperature exceeds 75°F.

Precaution: To minimize the potential for resistance, (1) Make no more than three applications of Subdue 5G per season, and (2) Apply an alternate EPA-registered fungicide for Pythium control at least once during the season.

Vegetable Bedding Plants (Broccoli, Cabbage, Cauliflower, Eggplant, Tomatoes, Cucumbers, Lettuce, Melons, Peppers, Spinach and Squash)

Pythium Damping-Off of Broccoli, Cabbage, Cauliflower, Eggplant, Tomatoes, Cucumbers, Lettuce, Melons, Peppers, Spinach and Squash

Uniformly apply 10-20 lbs./A as a preplant broadcast application (5-10 oz. per 150 square yards of bed) before or at the time of

seeding to the surface of the beds and lightly incorporate or follow with one-half inch sprinkler irrigation water.

Note: Do not use Subdue 5G for disease control in vegetable plants grown in enclosed environments, i.e., greenhouse, glass-house, etc.

Rotational Crops

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

Pesticide Storage and Disposal:

Store in a dry place. Do not contaminate water, food or feed by storage, disposal, or cleaning of equipment. Open dumping is prohibited. Wastes resulting from the use of this product are toxic. Improper disposal of unused pesticide is a violation of federal law. Pesticide 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

Completely empty bag into application equipment. Dispose of empty bag 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, 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 procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call (919) 292-7100 day or night.

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

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

Statement of Practical Treatment

If in eyes: Flush with plenty of water.

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

If swallowed: Drink large quantities of water and induce vomiting by placing finger in back of throat. Call a physician or contact your local Poison Control Center. Never give anything by mouth to an unconscious person. Avoid alcohol.

If inhaled: Remove victim to fresh air.

Environmental Hazards

Do not apply to water or wetlands (swamps, bogs, marshes, or potholes). Do not contaminate water when disposing of equipment wash waters.

Subdue® trademark of CIBA-GEIGY for metalaxyl
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CGA

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Metalaxyl ERSTR

(LABELS-S.1 - SUBDUE5G/F3)