

Subdue

2E

Fungicide

For the control of foot and stem rot diseases of ornamentals
Pythium diseases of turf and
Phytophthora root rot in conifer nurseries

Active Ingredient
Metalaxyl-N-(2,6-dimethyl-phenyl)-N-(methoxyacetyl)-alanine methyl ester 25.11%
Inert Ingredients 74.89%
Total 100.00%

Subdue 2E contains 2 lbs active ingredient per gallon.
See directions for use in folded sheet attached to jug.
EPA Reg. No. 100-619

One Gallon
U.S. Standard Measure

Keep Out of Reach of Children.
Danger

Precautionary Statements
Hazards to Humans and Domestic Animals
Irritant. Causes eye damage and skin irritation. Harmful if swallowed. Irritated or abraded skin may become more sensitive to sunburn. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Avoid breathing vapors or spray mist. Remove and wash contaminated clothing before reuse. Wash thoroughly before eating.

First Aid: In case of eye contact, flush with plenty of water for 15 minutes and get medical attention. In case of skin contact, wash thoroughly with soap and water. If swallowed, give water or milk. If unconscious and not breathing, contact poison control center or hospital. If breathing is difficult, give artificial respiration and get medical attention.

Environmental Hazards
This product is highly toxic to fish, aquatic invertebrates, and birds. Do not apply to water bodies. Do not apply to areas where waterfowl or other wildlife may be present. Do not apply to areas where bees are present.

Store at temperatures above 32 F.
Subdue is a trademark of CIBA-GEIGY for metalaxyl.
U.S. Patent No. 4,151,259

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Agricultural Division
CIBA-GEIGY Corporation
Greensboro, North Carolina 27409
CGA 64L2 051

CIBA-GEIGY

FIRST DOCUMENT AVAILABLE

ACCEPTED
with COMMENTS
in EPA Letter Dated:
REGISTERED

SEP 29 1982

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
100-619

Subdue™ 2E

Fungicide

For the control of leaf and stem blights, crown rots, and other fungal diseases of ornamentals, azaleas, and shrubs. This product is also effective against crown rot of azaleas and shrubs.

Subdue 2E contains 2.0% active ingredient per gallon.

Keep Out of Reach of Children

Danger

See additional precautionary statements on this sheet.

CGA 6423-1001

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, any 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.

General Information

Subdue is a systemic fungicide for use on ornamentals, turf, and container nurseries.

Note: 1) Subdue is a systemic fungicide having a specific mode of action. Subdue could be subject to development of resistant strains of fungi. Development of resistant strains 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 Office for special information and ways to minimize any possible damage from resistant strains of fungi which may occur.

Mixing Instructions

For use on ornamentals, azaleas, and shrubs, mix 1.2 fl. ozs. of Subdue with 100 gals. of water and apply to 400-600 sq. ft. of surface area. For use on turf, mix 1.2 fl. ozs. of Subdue with 100 gals. of water and apply to 400-600 sq. ft. of surface area.

For use on ornamentals, azaleas, and shrubs, mix 1.2 fl. ozs. of Subdue with 100 gals. of water and apply to 400-600 sq. ft. of surface area. For use on turf, mix 1.2 fl. ozs. of Subdue with 100 gals. of water and apply to 400-600 sq. ft. of surface area.

Directions for Use

For use on ornamentals, azaleas, and shrubs, mix 1.2 fl. ozs. of Subdue with 100 gals. of water and apply to 400-600 sq. ft. of surface area.

FAILURE TO FOLLOW DIRECTIONS ON THIS LABEL MAY RESULT IN CROP INJURY OR POOR DISEASE CONTROL

Ornamentals

Use Subdue in container nurseries for growth of ornamentals in greenhouses or potting nurseries for control of damping-off and root and stem rot diseases caused by *Pythium* and *Phytophthora*. Use Subdue either as a soil drench or soil mix on ornamentals at time of seeding and transplanting. Subdue may be applied as a foliar spray on azaleas. 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.

For use on ornamentals in less than 4 inches of soil, apply 100 gals. of Subdue soil drench to 800 sq. ft. of surface area (1 pt. sq. ft.). For more than 4 inches of soil depth, apply 100 gals. of Subdue soil drench to 400-600 sq. ft. of surface area (1 1/2-2 pts. sq. ft.). Do not exceed recommended rates or apply more frequently than directed, or plant injury may occur.

Precaution: Do not apply to *Eucalyptus* if injury may occur.

Foliage Plants

Agapanthus
Alocasia
Cyclamen
Ficus
Philodendron
Poinsettia
Schlumbergeria

SOIL DRENCH: Mix 0.4 fl. ozs. with 100 gals. of water and apply to 400-600 sq. ft. of surface area. Repeat applications at two to three month intervals if necessary.

For *Philodendron*, use 0.4-2.4 fl. ozs. 100 gals. Coverage: For soil depth of 4 inches or less, apply 100 gals. to 800 sq. ft.; soil depth of more than 4 inches, apply 100 gals. to 400-600 sq. ft.

Precaution: To minimize the potential for injury to *Poinsettia*, do not use more than 0.9 fl. oz. 100 gals. and do not apply more frequently than once every 3 months.

ACCEPTED with COMMENTS SOIL MIX In EPA Letter Dated 10/4/82 with each 100 gal. of soil mixture REGISTERED

SEP 29 1982

166-619

Bedding Plants

Geranium
Petunia
Verbena
Mandarin
Canna
Fuchsia
Impatiens
Lupinus
Nigella
Polemonium
Salvia
Sedum
Sinningia
Tulip
Zinnia

SOIL DRENCH At Seeding

Mix 1.2 fl. ozs. with 100 gals. of water and apply to 400-600 sq. ft. of surface area.

At Transplanting

Mix 1.2 fl. ozs. with 100 gals. of water and apply to 400-600 sq. ft. of surface area. Repeat applications at two to three month intervals if necessary.

SOIL MIX At Seeding and At Transplanting

Thoroughly mix 1.2 fl. oz. with each 100 gal. of soil mixture.

Flowers

Miscanthus
Canna
Clematis
Fuchsia
Geranium
Poinsettia

SOIL DRENCH Mix 0.5-2

fl. ozs. with 100 gals. of water and apply to 400-600 sq. ft. of surface area. Repeat applications at two to three month intervals if necessary. Do not apply rates of 1.5-2 fl. ozs. 100 gals. more often than once every 5 weeks.

Coverage: For soil depth of 4 inches or less, apply 100 gals. to 800 sq. ft.; soil depth of more than 4 inches, apply 100 gals. to 400-600 sq. ft.

Azalea

SOIL DRENCH

Phytophthora root and crown rot—Mix 1.2-4 fl. ozs. with 100 gals. of water and apply to 400-600 sq. ft. of bed area. Repeat applications at two to four month intervals if necessary.

Coverage: For soil depth of 4 inches or less, apply 100 gals. to 800 sq. ft.; soil depth of more than 4 inches, apply 100 gals. to 400-600 sq. ft.

FOLIAR SPRAY

Phytophthora shoot blight—Mix at 1.2-2.4 fl. ozs. with 100 gals. Spray to runoff. Repeat at two to three month intervals if necessary.

Precaution: To minimize the potential for injury to azaleas, do not apply repeat applications of 1.8-2.4 fl. ozs. 100 gals. closer than every 3 months, and do not exceed a total of 4 fl. ozs. in 6 months.

Woody Ornamentals Other Than Azalea

Acacia japonica
Andromeda
Arbutus
Ceanothus
Ilex
Pinus
Thuja
Syringa
Taxus
Yucca

SOIL DRENCH

Mix 1-4 fl. ozs. with 100 gals. of water and apply to 400-600 sq. ft. of surface area. Repeat applications at two to three month intervals if necessary. Do not apply rates of 1.2-4 fl. ozs. 100 gals. more often than once every ten weeks.

Coverage: For soil depth of 4 inches or less, apply 100 gals. to 800 sq. ft.; soil depth of more than 4 inches, apply 100 gals. to 400-600 sq. ft.

Conifers in Nurseries

Apply as a preventative treatment at 1-2 fl. ozs. per 100 sq. ft. of water.

Seedbeds and Plug Plantings Apply as a preventative treatment at 1-2 fl. ozs. per 100 sq. ft. of water. For plug plantings, apply to the soil around the plugs.

2-0 Transplants Apply as a preventative treatment at 1-2 fl. ozs. per 100 sq. ft. of water. For transplants, apply to the soil around the plants.

Newly Seeded Areas Apply as a preventative treatment at 1-2 fl. ozs. per 100 sq. ft. of water.

Turf Apply as a preventative treatment at 1-2 fl. ozs. per 100 sq. ft. of water. For turf, apply as a spray at the time of regrading or when the turf is being laid down. 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.

Established Turf Pythium Blight Apply as a preventative treatment at 1-2 fl. ozs. per 100 sq. ft. of water per 1,000 sq. ft. Repeat at 7-14 day intervals during periods favorable for disease development.

Newly Seeded Areas Pythium Damping-Off and Pythium Blight Apply 1-2 fl. ozs. per 100 sq. ft. immediately after seeding. Irrigate with 1/2 inch water. Repeat at 7-14 day intervals if conditions remain favorable for disease.

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse container. Pesticide spray mixture or residue that cannot be used according to label instructions must be disposed of according to federal, state, or local procedures under the Resource Conservation and Recovery Act. Triple rinse (or equivalent) and offer for recycling or reconditioning, or disposal in a sanitary landfill, or by incineration if permitted by state and local authorities. Consult federal, state, or local disposal authorities for approved alternative procedures such as limited open burning.

Store at temperatures above 32 F.

Precautionary Statements

Hazards to Humans and Domestic Animals

DANGER

This is a highly toxic fungicide and may be fatal if swallowed, inhaled, or absorbed through the skin. Avoid contact with eyes, nose, mouth, and skin. Wash thoroughly with soap and water if contact occurs. Do not breathe dust or mist. Avoid breathing vapors. Do not get on clothing. Wash immediately if clothing becomes soiled. Do not eat, drink, or smoke while using this product.

First Aid: In case of eye contact, flush with plenty of water for 15 minutes. Get medical attention. In case of skin contact, wash thoroughly with soap and water. If swallowed, get medical attention. Do not induce vomiting. In case of inhalation, get medical attention. Use artificial respiration and get medical attention.

Environmental Hazards

Do not apply directly to lakes, streams, or ponds. Apply only as specified on this label. Do not apply when weather conditions favor drift to untreated areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

Subdue[®] trademark of CIBA-GEIGY for methaxyl, U.S. Patent No. 4,151,099.
Dazon[®] trademark of CIBA-GEIGY.
D-zin[®] trademark of CIBA-GEIGY.
Actone[®] trademark of Upjohn Company.
Dacon[®] 2787[®] trademark of Diamond Shamrock Corp. for chlorothalonil.
Cyrene[®] trademark of Mowat Chemical Corporation for azoxystrobin.
Fore[®] trademark of Rohm and Haas Co. for mancozeb.
Terran 1331[®] trademark of E. I. du Pont de Nemours & Co. Inc. for benomyl.
Tersan USA[®] trademark of E. I. du Pont de Nemours & Co. Inc. for maneb.
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Agricultural Division
CIBA-GEIGY Corporation
Greensboro, North Carolina 27409
CGA 6443-051

ACCEPTED
with COMMENTS
by EPA L-10-0-8
REREGISTERED
SEP 23 1982

Under the provisions of the
Federal Insecticide, Fungicide,
and Rodenticide Act
registered
100-619