

## WA Cleary Chemical Corporation

# 3336 F

## TURF AND ORNAMENTAL SYSTEMIC FUNGICIDE

For the prevention and control of turf diseases and the diseases of annual and perennial flowers, ground covers, plus deciduous and evergreen trees and shrubs.

**ACTIVE INGREDIENTS:**

Thiophanate-methyl (dimethyl 4,4'-o-phenylenebis-[3-thioallophanate]) ..... 46%

INERT INGREDIENTS ..... 54%

TOTAL ..... 100.0%

This product contains 4.5 pounds thiophanate-methyl per gallon.

EPA Reg. No. 1001-69

EPA Est. No. 1812-GA-3

**CAUTION**

### KEEP OUT OF REACH OF CHILDREN

#### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Induce vomiting immediately by giving 2 glasses of water and sticking finger down throat. Call a physician. Never give anything by mouth to an unconscious person.

**IF IN EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

**IF ON SKIN:** Immediately flush skin with plenty of water.

**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration. Get medical attention.

**PRECAUTIONARY STATEMENTS****HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Harmful if swallowed, absorbed through skin, or inhaled. Causes moderate eye irritation.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance selection chart. **Applicators and other handlers must wear:** long-sleeved shirt, long pants, chemical resistant gloves, (such as barrier laminate, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, polyvinyl chloride (PVC)  $\geq$  14 mils, or Viton  $\geq$  14 mils) and shoes with socks. For exposures in enclosed areas: a respirator with either an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval prefix TC-14G).

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

**USER SAFETY RECOMMENDATIONS:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately after handlings if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. 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 apply where runoff is likely to occur. Do not contaminate water by disposal of equipment washwaters.

**STORAGE AND DISPOSAL**

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

**Storage:** Store in the original container in a dry, temperature controlled area. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling, contain/re-capture spillage and dispose of in accordance with the Pesticide Disposal Instructions listed below.

**Pesticide Disposal:** Wastes resulting from the use of this product are toxic and may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Do not re-use empty 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.

**DIRECTIONS FOR USE**

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING. 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 (REI) of 12 hours.

PPE 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, (such as barrier laminate, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, polyvinyl chloride (PVC)  $\geq$  14 mils, or Viton  $\geq$  14 mils), and shoes with socks.

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box only 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.

Do not enter treated areas without protective clothing until spray has dried.

**GENERAL INFORMATION**

Apply 3336 F with ground or aerial equipment, using sufficient volume of spray to provide thorough coverage. Add required amount of 3336 F to a partially filled tank of (1/2 total volume) agitated by mechanical or hydraulic means and then add remaining required amount of water. Continuous agitation is recommended to keep the material in proper suspension. Do not tank mix with copper-containing materials or with highly alkaline pesticides, such as Bordeaux mixture of lime sulfur. No claim of compatibility with other pesticides is implied. Use the higher rates under conditions of severe disease pressure. Also, see local State Extension Service recommendations for application schedules. Chemigation instructions follow Directions For Use. Read and follow these instructions carefully for this method of application.

**IMPORTANT:** If, after using 3336 F as recommended, treatment is not effective, a tolerant strain of fungi may be present (consult your local W. A. Cleary representative). Consult your State Agricultural Experiment Station or your State Agricultural Extension Service for advice on the prompt use of some other suitable fungicide.

**SHAKE WELL, BEFORE USING.** Some settling may occur during prolonged periods of non-use.

**TURF APPLICATIONS**

For use on all fine turf applications such as commercial and home lawns, athletic fields, cemeteries, parks, golf course greens, trees, and fairways of Bentgrasses, Bluegrasses, Bermudagrasses, Fescues, Ryegrasses, St. Augustine, Zoysia grasses or their mixtures. 3336 F is not phytotoxic to any of the above mentioned grasses when used in accordance with the label. 3336 F is to be used for the prevention and control of the diseases mentioned below. It can provide both curative and protective action. Use spray mixture the same day it is prepared. Spray uniformly over the area to be treated with a properly calibrated power sprayer. Apply after mowing or avoid mowing for twelve hours after application. Apply recommended amounts in sufficient water to obtain thorough coverage, (three to five gallons suggested) per 1,000 square feet. When treating golf greens, always treat aprons and approaches. Use the highest recommended rate under conditions of severe disease pressure.

Disease(s) Controlled	Rate of 3336 F fl. oz./1000 sq. ft.	Remarks
Anthraxnose (Colletotrichum graminicola)	4-8	Apply when disease first appears and continue at 7-14 day intervals as needed. Sprays should dry on leaf surfaces with no "watering in" for 4 hrs.
Dollar Spot (Mollariopsis spp.) (Lasius spp.)	1-2	
Large Brown Patch (Rhizoctonia solani)	1-2	Apply when disease first appears and continue at 7-14 day intervals as needed. Sprays should dry on leaf surfaces with no "watering in" for 4 hrs. NOTE: When conditions are unusually favorable for the development of disease, reduce application interval to 5-7 days as needed.
Copper Spot (Glomerospora arghil)		
Red Thread (Corticium fasciiforme)		
Leaf Spot (Drechslera spp.)		
Fusarium Patch (Fusarium nivale)		

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Disease(s) Controlled	Rate of 3336 F fl. oz./1000 sq. ft.	Remarks
Pink Snow Mold ( <i>Microdochium nivale</i> )	1-2	Apply middle-late November before turf has stopped all growth activity. Lightly water this application into the root zone for best results. A second application may be used in combination with Cleary's SPOTRETE and DEFEND (PCNB) products at reduced rates. Use a spreader-sticker product such as Cleary's CLEARSPRAY T/O for best results. Second spray should dry on leaf surfaces with no "watering in".
Summer Patch ( <i>Magnaporthe poae</i> )	3-10	For prevention, apply 3 applications beginning early May using 21 day intervals. For suppression, apply 3336 F at similar rates using 10-14 day intervals beginning when disease first appears. Note: When conditions are unusually favorable for the development of disease, reduce application interval to 3-7 days as needed. Water material into root zone after application with $\frac{1}{2}$ -1 inch of water.
Fusarium Blight ( <i>Fusarium roseum</i> and <i>tritici</i> ) Necrotic Ring Spot ( <i>Laytosphaeria korrae</i> )	3-10	Apply when disease first appears and make two applications at 10-14 day intervals as needed. Lightly water this application into the root zone for best results.
Stripe Smut ( <i>Ustilago striiformis</i> )	3-10	Apply when disease first appears making two applications at 14-21 day intervals when disease first appears. Water material into root zone after application with $\frac{1}{2}$ -1 inch of water. For prevention, apply in spring and fall.

**HORTICULTURAL APPLICATIONS****NURSERY, GREENHOUSE, LANDSCAPE and INTERIORSCAPE****Annual and Perennial Flowers, Ground Covers, plus Deciduous and Evergreen Trees and Shrubs**

3336 F is a broad spectrum systemic fungicide which controls a variety of foliar, stem, and root diseases on a wide range of commercially important plants. 3336 F is also effective as a preplant dip on cuttings and bulbs. Begin applications when disease first appears, or during suspected periods of disease incidence. Apply additional applications every 7-10 days or as otherwise instructed for the prevention or control of the listed diseases. Use of a wetting agent such as Cleary's SUPER WET is recommended for plants that have leaves that are difficult to wet properly. Use of a spreader-sticker such as Cleary's CLEARSPRAY T/O is recommended to enhance product performance in wet weather conditions. Cleary's 3336 F may be used to control listed diseases on "backyard" (non-commercial) fruit trees such as almond, apple, apricot, cherry, nectarine, peach, pecan, plum, and prune trees. Do not apply within 1 day (24 hours) of harvest.

**Note:** The "Directions For Use" of this product reflect the cumulative inputs from both historical field use and product testing programs. However, it is impossible to test this product on all species and cultivars. A preliminary trial is suggested on a small scale before a full treatment is applied to any plant type not shown on this label but found in a similar use site with a listed disease problem. Wait 5-7 days after treatment to evaluate trial results. This product is not recommended for the following plants: *Nephrolepis exaltata*, *Plectranthus australis*, and *Hatiora gaertneri*.

**FOLIAR SPRAY****Hydraulic Application Mixing Instructions**

After shaking, add the required amount of 3336 F to a partially filled spray tank agitated by mechanical or hydraulic means and then add remaining amount of water. Maintain continuous agitation to keep the material in suspension and apply with properly calibrated spray equipment.

**Application Rates and Timing for Disease Control**

**Ground Application (Mechanical or Hand Held):** Use 10-20 fl. oz. of 3336 F per 100 gallons of water ( $\frac{1}{2}$ -1 tablespoon per gallon) for the prevention and control of the diseases shown below.

**Aerial Application:** Use 10-20 fl. oz. of 3336 F per acre in sufficient volume of water to insure adequate coverage. Begin application(s) when disease first appears and repeat at 10-14 day intervals during the growing season as needed. Shorten the interval when conditions are unusually favorable for the development of disease.

Foliar Disease(s) Controlled	Remarks
Anthraxnose	Apply as buds break. Repeat every 7-10 days as needed during disease period.
Asochya Leaf Blight	Repeat every 7-10 days as needed during disease period.

Foliar Disease(s) Controlled	Remarks
Black Spot	Apply mid-summer or at first sign of disease.
Botrytis Flower Blight <i>Cercospora</i> Leaf Spot	Apply mid-summer or at first sign of disease.
<i>Corynespora</i> Leaf Spot Curvularia Leaf Blight, Dothymella Leaf Spot, Erioseporium Leaf Spot	Apply mid-summer or at first sign of disease.
Leaf Scabs of Crabapple, Pyracantha, Hawthorn, Pear, and Mountain Ash ( <i>Fusicladium</i> and <i>Venturia</i> spp.)	Apply mid-spring or at first sign of disease.
Ovulinia Blight	Apply as flowers open. Repeat every 7-10 days as needed during disease period.
Powdery Mildew Ramularia Leaf Spot	Apply mid-summer or at first sign of disease.
Tip Blight of Pine ( <i>Sphaeropsis sapinea</i> , <i>Diplodia pinis</i> )	Apply along with a compatible spreader/sticker at recommended rates to entire tree. Thorough coverage is essential for optimal disease control. Begin application in spring when new growth starts. Make a second application just before needles emerge from the sheath and a third application 10 days later.
Twig Blights of Juniper ( <i>Phomopsis</i> and <i>Kabatina</i> spp.)	For <i>Phomopsis</i> , apply in spring. For <i>Kabatina</i> , apply late summer. Repeat every 7-10 days as needed during disease period.
Septoria Leaf Spot	

**SOIL DRENCH APPLICATION****Application Rates and Timing for Disease Control**

Use 16-20 fluid ounces of 3336 F per 100 gallons of water. Apply as a drench or heavy spray after transplanting to propagation bed, container, or pot at a rate to thoroughly soak the growing media. A general guide is  $\frac{1}{2}$ -2 pints of drench solution per square foot depending on the media type and depth (approximately 8 fl. oz. in a 6 inch pot or 4 fl. oz. in a 4 inch pot). Repeat every 21-28 days to provide adequate crop protection.

**Note:** Application of this product to plug trays or seedlings flats at seedling is not recommended due to potential growth regulating effects.

**Soil Disease(s) Controlled**

Stem Rots, Crown Rots, and Root Rots—(*Botrytis*, *Fusarium*, *Gloeadium*, *Myrothecium*, *Ramularia*, *Rhizoctonia*, and *Sclerotinia* spp.)  
Black Root Rot—*Thielaviopsis* spp.  
Cylindrocladium Rot

**Note:** 3336 F does not control *Pythium* spp. or *Phytophthora* spp.

**PREPLANT DIP TREATMENT—PLANT TYPES AND DISEASES CONTROLLED****Application Rates and Timing for Disease Control**

**Plants or Cuttings—**Use 20 fluid ounces of 3336 F per 100 gallons of water. Immerse plants or cuttings for 10-15 minutes; remove and allow to drain. Wear clothing outlined in "PPE Requirements" for applications and other handlers.

**Bulbs—**Use 33 fluid ounces of 3336 F per 100 gallons of water, or 2 tablespoons of 3336 F per gallon of water. Soak cleaned bulbs for 15-30 minutes in warm dip (80-85 degrees F) preferably within 48 hours of digging. Dry bulbs after treatment. If bulbs are for forcing, treat bulbs that have been heat-cured.

**Bulb Disease(s) Controlled**

Bulb, Crown, and Rhizome Rots—(*Botrytis*, *Fusarium*, *Gloeadium*, *Myrothecium*, *Ramularia*, *Rhizoctonia*, *Sclerotinia*, *Thielaviopsis*, *Cylindrocladium*, *Fusarium* and *Penicillium* spp.)

**CHEMIGATION****Generic Requirements**

1. Apply this product only through a sprinkler including center pivot, lateral move, end tow, side wheel mill, traveler, solid set, hand move or similar: flood (hain); or drip (trickle) irrigation system. Do not apply this product through any other type of irrigation system.
2. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
3. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
4. 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.
5. 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.

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**Specific Requirements**

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone (RPZ), backflow preventer or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back towards the injection pump.
4. The pesticide injection pipeline must 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 drawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, 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 or equivalent, 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.

**APPLICATION INSTRUCTIONS****Hand Held Irrigation**

1. Remove scale, pesticide residue, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.
2. Determine the treatment rate as indicated in the directions for use for crop and pathogen and measure the intended areas of application.
3. Prepare a suspension of product in the mix tank or stock bucket. Fill the tank with  $\frac{1}{2}$  or  $\frac{3}{4}$  of the desired amount of water. Start agitation and add the required amount of product to the solution along with the remaining volume of water.
4. Maintain a gentle agitation in the mix tank during application to assure a uniform suspension.
5. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time. An injection ration of 1:100 is recommended for greenhouse systems.

**INSTRUCTIONS FOR SPRINKLER (OVERHEAD) IRRIGATION**

Observe the requirements in the System Requirements section above. Do not apply when wind speed favors drift beyond the area intended for treatment. Apply 3336 F only through systems containing anti-siphon and check valves designed to prevent water source contamination or overflow of the mix tank and containing interlocking controls between the metering device and the water pump to insure simultaneous shut-off. Maintain a gentle continuous agitation in mix tank during mixing and application to assure a uniform suspension. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time. Application of more than recommended quantities of irrigation water per acre may result in decreased product performance. Do not apply when wind speed favors drift. When system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product cannot be flushed and must be dismantled and drained in a center pivot system, block the nozzle set nearest the well pivot injection unit to prevent spray being applied to this area. Where sprinkler distribution patterns do not overlap sufficiently, unacceptable disease control may result. Allow sufficient time for pesticides to be flushed through all lines and all nozzles before turning off irrigation water.

3336 F may be applied in conjunction with chemically neutral liquid fertilizers. Application in conjunction with highly alkaline fertilizers, such as aqueous ammonia, may cause a degradation of the pesticide, resulting in reduced performance and should be avoided. Check local restrictions and requirements regarding sprinkler irrigation applications, as they may vary from state to state. Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water. Prepare a suspension of 3336 F in a mix tank. Fill the tank with  $\frac{1}{2}$  to  $\frac{3}{4}$  of the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of 3336 F and then the remaining volume of water.

Set sprinkler system to deliver 0.1 to 1.25 inches of water per acre. Volumes of water higher than this may reduce efficacy. Start sprinkler and then uniformly inject the suspension of 3336 F into the irrigation water line so as to deliver the desired rate per acre. The suspension of 3336 F should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing.

**LIMITED WARRANTY AND DISCLAIMER**

W.A. CLEARY CHEMICAL CORPORATION warrants that this material 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 risks referred to therein. W.A. CLEARY CHEMICAL CORPORATION makes no other expressed or implied

warranty of fitness or merchantability or any other expressed or implied warranty. In no case shall W.A. CLEARY or seller be liable for consequential, special or indirect damages resulting from the use or handling of this product including, but not limited to, loss of profits, business reputation, or customers, labor costs, or other expenses incurred in planting or harvesting.

W.A. CLEARY and 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 W.A. CLEARY CHEMICAL CORPORATION.

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Replaces: 10/94

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