



001001-00063-050799

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**Systems Integration Group, Inc.**

PM21

1001-63

5/7/99

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

MAY 7 1999

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Richard F. Fletcher  
Technical & Regulatory Manager  
Cleary Chemical Corporation  
178 Ridge Road, Suite A  
Dayton, NJ 08810

Dear Mr. Fletcher:

Subject: EPA Reg. No. 1001-63  
3336 WP; Label Amendment  
Your Submission dated February 1, 1999

The labeling referred to above, submitted in connection with the registration under Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided you make the following changes on page 4:

1. Replace the 4th sentence, "Add required amount of 336 WP.... amount of water" with "Add required amount of 3336 WP to a partially filled tank (1/2 total volume) and agitate by mechanical or hydraulic means while adding the remaining required amount of water. Once the water soluble bags have completely dissolved add tank mix product if used (see below)". It is important that the water soluble bags are completely dispersed in the required amount of water before adding any tank mixes for uniform mixing and to prevent precipitation of dissolved water soluble bag film.
2. Add "water soluble bags" before "wetttable powders, ..." in the second sentence under Tank Mixing Directions.
3. Add at the end of Tank Mixing Instructions, "Tank mix products containing boron or releasable free chlorine will affect the solubility of water soluble (PVA) film. Thoroughly rinse the spray tank of any boron containing spray solution prior to adding any water soluble bags. Even minimal carryover concentrations of boron in the spray tank may cause the water soluble bag material dissolved in water to precipitate and form insoluble residue inside the spray tank".

.. continued ..

A stamped copy of the label is enclosed for your records. Submit one (1) copy of your final printed labeling before you release the product for shipment. Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Should you have any questions, do not hesitate to contact Dr. S (Oonni) Oonnithan at 703-605-0368.

Sincerely,



Mary L. Waller  
Product Manager 21  
Fungicide Branch  
Registration Division (7505C)

Encl.

ACCEPTED  
with COMMENTS  
In EPA Letter Dated:  
MAY 7 1999

02/01/99 | 1

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# 3336 WP

MAY 7 1999

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.  
1001-63

## TURF AND ORNAMENTAL SYSTEMIC FUNGICIDE IN WATER SOLUBLE BAGS

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

### ACTIVE INGREDIENT:

Thiophanate-methyl (dimethyl 4,4'-o-phenylenebis[3-thioallophanate]) .....	50%
INERT INGREDIENTS .....	50%
<b>TOTAL</b> .....	<b>100%</b>

Keep Out Of Reach Of Children

### CAUTION

#### FIRST AID

**IF SWALLOWED:** Induce vomiting immediately by giving two glasses of water and sticking finger down throat. Contact a physician or poison control center. 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:** Wash exposed areas with soap and water. Seek medical attention as needed.

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

Cleary Chemical Corporation

178 Ridge Road, Suite A, Dayton, New Jersey 08810-1501

732-329-8399 800-524-1662

NET CONTENTS: 2 Pounds (0.9 Kg)  
(CONTAINING 4 - 8 OUNCE WATER SOLUBLE BAGS)

EPA Reg. No. 1001-63

EPA Est. No. 33967-NJ-1

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

**CAUTION:** Harmful if swallowed, inhaled, or absorbed through the skin. May cause irritation of eyes, nose, throat, and skin. Avoid contact with eyes and skin. Avoid breathing dust or spray mist.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**WPS Uses:** Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard, 40 CFR Part 170, must wear: long-sleeved shirt, long pants, and shoes with socks.

**NON-WPS Uses:** Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard, 40 CFR Part 170, should wear: long-sleeved shirt, long pants, and shoes with socks.

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 if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. 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, or 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. Do not apply, allow to drift, or drain or flush equipment onto non-target areas.

**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:** When all water soluble bags are used, dispose of empty foil package 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**

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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. Exemption: If the product is applied by drenching, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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, waterproof gloves, 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.

Turf and Landscape Uses: Keep children and pets out of treated areas until sprays have dried.

#### GENERAL INFORMATION

3336 WP is a broad spectrum fungicide exhibiting preventative, curative and systemic properties. It is useful on a wide variety of turf and ornamental disease problems. Apply 3336 WP with ground or aerial equipment, using sufficient volume of spray to provide thorough coverage. 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.

**Resistance Management:** To avoid the development of tolerant strains of fungi, 3336 WP should be used with fungicides of different modes of action. Cleary Chemical does not recommend the use of products containing benomyl, or thiabendazole in combination or rotation with 3336 WP. These utilize similar chemistry and mode of action and can contribute to development of disease tolerance. If, after using 3336 WP as recommended, the treatment is not effective, a tolerant strain of fungi may be present. Consult your local Cleary Chemical representative, your State Agricultural Experiment Station, or your State Cooperative Extension Service for proper disease identification and advice on the prompt use of some other suitable fungicide or disease control strategy. As long as recommended precautions are followed, 3336 WP can remain useful for disease control.

**Mixing Instructions:** 3336 WP consists of a protective outer resealable package containing water soluble bags. Do not allow the bags to become wet prior to adding to the tank. Do not handle water soluble bags with wet hands or wet gloves. Depending on the degree of agitation and water temperature, the water soluble bag should be completely dissolved within five minutes.

Avoid adding bags near recirculation outlets as they might block outlets before completely dissolving. High pH environments cause a shortened tank life for suspended product. The buffering of tank water to pH 6-7 prior to the addition of 3336 WP is recommended. Add required amount of 3336 WP to a partially filled tank (1/2 total volume), agitate by mechanical or hydraulic means, add tank mix product if used (see below), agitate again and then add remaining required amount of water. Continuous agitation is recommended to keep the material in proper suspension. For best results, use spray mixture the same day it is prepared.

**Tank Mixing Instructions:** 3336 WP is compatible with most commonly used pesticides. If tank mixing with other materials, add products in the following order: wettable powders, dry flowables, liquid flowables, emulsifiable concentrates, and soluble materials such as fertilizers. No claim of compatibility with other products is implied. Do not tank mix with copper-containing materials or with highly alkaline pesticides, such as Bordeaux mixture or lime sulfur. Consult the intended tank mix partner product label for appropriate application rates and use instructions. Follow the label directions for the most restrictive of label precautions and limitations. This product cannot be mixed with any product containing a label prohibition against such mixing. Read and observe the most restrictive precautionary statements and other information appearing on product labels used in mixtures. 3336 WP 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.

## CHEMIGATION

### Generic Requirements

1. Apply this product only through the following types of systems: sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, solid set, or hand move; flood (basin); or drip (trickle) irrigation system(s). 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.

### 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, backflow preventer (RPZ) 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.

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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 (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.

#### **Non Specific Requirements**

1. Remove scale, pesticide residue, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.
2. Prepare a suspension of product in the mix tank or stock bucket. Fill the tank with 1/2 or 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.
3. Maintain a gentle agitation in the mix tank during application to assure a uniform suspension. Follow mixing instructions and tank mixing instructions previously indicated.
4. Start system and then uniformly inject the suspension of 3336 WP into the irrigation line so as to deliver the desired rate per acre. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation system.
5. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time.
6. The suspension of 3336 WP should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing.

#### **Sprinkler (Overhead) Chemigation**

Observe all instructions in the General and Specific requirements sections above and the following additional requirements:

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 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.

Set sprinkler system to deliver 1/10 to 1/4 inches of water per acre. Volumes of water higher than this may reduce efficacy. Application of more than recommended quantities of irrigation water per acre may result in decreased product performance. Where sprinkler distribution patterns do not overlap sufficiently, unacceptable disease control may result.

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

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area. Allow sufficient time for pesticides to be flushed through all lines and all nozzles before turning off irrigation water.

#### Flood (Basin) Chemigation

1. Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and down stream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.
2. Systems utilizing a pressurized water and pesticide injection system must meet the following requirements: Observe all instructions in the General and Specific requirements sections above and items 1 and 2 of the sprinkler irrigation requirements.

#### Drip (Trickle) Chemigation

Observe all instructions in the General and Specific requirements sections above.

### TURF APPLICATIONS

3336 WP may be used on all fine turf applications such as commercial and residential lawns, parks, athletic fields, golf course greens, tees, and fairways, cemeteries, and sod farms of cool and warm season grasses such as Bentgrass, Bluegrass, Bermudagrass, Fescue, Ryegrass, St. Augustinegrass, Zoysiagrass, or their mixtures. 3336 WP is not phytotoxic to any of the above mentioned grasses when used in accordance with the label. 3336 WP is to be used for the prevention and control of the diseases mentioned below. It has both preventative and curative activity. Do not graze animals on treated turf. Do not feed clippings to livestock or poultry. Do not exceed a maximum of three (3) pounds active ingredient per 1000 square feet per season from any thiophanate-methyl containing product.

**Ground Application Instructions:** Apply material with properly calibrated hand held, mechanical or motorized spray equipment or by chemigation through appropriate sprinkler irrigation systems. Spray uniformly over the area to be treated. Apply recommended amounts in sufficient water to obtain thorough coverage of treatment area (2-4 gal per 1,000 sq ft is suggested). When treating golf greens, always treat aprons and approaches. Use the highest recommended rate under conditions of severe disease pressure. For best results, apply after mowing or avoid mowing twelve hours after application. Lightly water the treatment area to move the fungicide into active root zone with one to two tenths inch of water. Excessive irrigation may move application below active root zone and reduce application effectiveness. Green design and drainage will influence irrigation practices. When tank mixing with contact action fungicides for foliar diseases, applications should be allowed to dry on leaf surfaces. Normal watering may proceed after sprays have dried.

Disease(s) Controlled	Rate of 3336 WP oz/1,000 sq ft	Remarks
Anthracnose, basal <i>Colletotrichum graminicola</i>	4-8	For prevention in historic areas of disease pressure, apply twice at 14 day (d) intervals when soil temperature reaches 60°F. For curative control, apply when disease first appears and continue at 7-14 d intervals as needed. Rotations and/or tank mix combinations with chlorothalonil or triadimefon can be utilized.
Anthracnose, foliar <i>Colletotrichum graminicola</i>	2-4	
Bermudagrass Decline <i>Gaeumannomyces graminis</i> var. <i>graminis</i> Take-All-Patch <i>Gaeumannomyces graminis</i> var.	4-8	Apply in mid-July or when disease symptoms first appear and repeat at 7-14 d intervals for suppression. Use higher rates under most severe disease expression. Follow proper agronomic recommendations to maintain plant vigor.

<i>avenae</i>		
Cool Season Brown Patch <i>Rhizoctonia cerealis</i>	4-8	For prevention, apply in Fall before turf has stopped all growth activity. Apply second application in early Spring when soil temperatures reach 55-60°F or when disease first appears. For curative action, apply when disease first appears in early Spring and continue at 7-14 d intervals.
Necrotic Ring Spot <i>Leptosphaeria korrea</i>		
Spring Dead Spot <i>Leptosphaeria korrea</i>		
Coprinus Snow Mold <i>Coprinus psychromorbidus</i>	4-8	Apply 2 treatments at 21 d intervals in late Fall to early Winter, with the last application made just prior to first permanent snow cover. Rotations and/or tank mix combinations with Defend™ can be utilized.
Dollar spot <i>Moellerodiscus, Lanzia</i>	2-4	Apply when disease first appears and continue at 7-14 d intervals. Rotations and/or tank mix combinations with chlorothalonil, iprodione, or Protect T/O™ can be utilized.
Large Brown Patch <i>Rhizoctonia solani</i>		
Ascochyta Leaf Blight <i>Ascochyta</i>		
Copper Spot <i>Gloeocercospora sorghi</i>		
Fusarium Patch <i>Fusarium nivale</i>		
Red Thread <i>Corticium fuciforme</i>		
Zoysia Patch <i>Rhizoctonia solani</i>		
Fusarium Blight <i>Fusarium roseum, F. triticum</i>	4-8	
Gray Leaf Spot (Blast) <i>Pyricularia grisea</i>	4-8	
Leaf Spot <i>Drechslera</i>	4-8	Apply when disease first appears and make applications at 7-14 d intervals as needed. Rotations and/or tank mix combinations with chlorothalonil, iprodione, or Protect T/O are recommended under severe conditions.
Leaf, crown, and root diseases <i>Bipolaris, Curvularia, Exserohilum</i>		
Pink Snow Mold <i>Mehrodochium nivale</i>	2-4	Apply in late Fall to early Winter before turf has stopped all growth activity. A second application may be used in combination with chlorothalonil, Defend™, or Spotrete™ at recommended rates before snow cover or during Spring thaw.
Rusts <i>Puccinia, Uromyces</i>	4-8	Make 2 applications at 7-14 d intervals when disease first appears. Rotations and/or tank mix combinations with chlorothalonil or Protect T/O™ are recommended.
Stripe Smut <i>Ustilago striiformis</i>	4-8	Apply at 7-14 d intervals when disease first appears. For prevention, apply in spring and fall.
Summer Patch <i>Magnaporthe poae</i>	4-8	For prevention, apply 3 applications starting late April or early May using 21 d intervals. Rotations and/or tank mix combinations may be used as part of the three application program. For suppression, apply at 7-14 d intervals when disease first appears.

## HORTICULTURAL APPLICATIONS

Nursery, Greenhouse, Landscape & Interiorscape

### Annual and Perennial Flowers, Bedding Plants, Foliage Plants, Ground Covers, plus Deciduous and Evergreen Trees and Shrubs

3336 WP 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 WP is also effective as a pre-plant dip on cuttings and bulbs. For soil drench applications, best crop protection is achieved with preventative treatments repeated every 21-28 days. For foliar applications, begin treatments when disease first appears, or during suspected periods of disease incidence. Apply additional applications every 7-14 days or as otherwise instructed for the prevention or control of the listed diseases. Use of a wetting agent is recommended for plants that have leaves that are difficult to wet properly. Use of a spreader-sticker is recommended to enhance product performance in wet weather conditions or during periods of overhead irrigation. 3336 WP 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 hr) of harvest. 3336 WP may be applied as a ground application using hand held, mechanical or motorized spray equipment, or as a chemigation spray or through an applicable sprinkler irrigation system, or as an aerial application where applicable. See specific instructions below. For foliar applications, do not exceed thirty six (36) pounds active ingredient per acre per crop season from all thiophanate-methyl containing products. For soil drench applications, do not exceed 300 pounds active ingredient per acre per crop season from all thiophanate-methyl containing products.

**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 results. This product is not recommended for use on Swedish Ivy (*Neprolepis exhalta*), Boston Fern (*Plectranthus australis*), and Easter Cactus (*Hatiora gaertneri*).

**Ground Application Instructions:** Apply material with properly calibrated hand held, mechanical or motorized spray equipment or by chemigation thorough appropriate sprinkler irrigation, flood, or drip systems. Begin applications when disease first appears and repeat at 7-14 d intervals or as needed during the growing season. Use the shortest interval when conditions are unusually favorable for the development of disease. For hand held, mechanical, or motorized applications, mix 8-24 oz of 3336 WP per 100 gal water (1-3 water soluble bags) and apply as a full coverage spray to drip for the prevention and control of the diseases listed below. Spray volume may range up to 400 gallons of finished spray per acre depending upon plant species and plant growth stage. For applications through irrigation systems, refer to aerial use rates indicated in the foliar application chart.

#### **Special Instructions For Proportional Injectors (e.g. Dosatron, Dosmatic, Anderson, and similar equipment)**

Determine the treatment rate as indicated below in the ground application column for crop and pathogen. Determine the injection ratio for the individual system to be used for application. For systems using a 1:100 ratio, measure and add the exact amount of recommended material per 100 gallons to each gallon of water in a stock bucket or tank. For systems using a 1:200 ratio, multiply the recommended amount per 100 gallons by 2. For systems using a 1:50 ratio, divide the recommended amount per 100 gallons added by 2. For systems using a 1:16 ratio, divide the recommended amount per 100 gallons by 6. Greater accuracy in calibration and distribution will be achieved by injecting a

larger volume of a more dilute suspension per unit time. An injection ratio of 1:100 is recommended for most greenhouse and nursery systems.

**Aerial Application Instructions:** Apply with fixed wing or helicopter equipment to appropriate nursery sites (field and container). Use at rate indicated in sufficient water for thorough coverage or a minimum of 3 gallons per acre for low growing crops and a minimum of 10 gallons per acre for larger shrubs and trees. Use a spreader-sticker at recommended rates as needed to enhance product performance. Add product slowly to water in the spray tank with agitation or premix thoroughly in separate holding tank for concentrate or aircraft sprayers. Continuous agitation is required to keep the product in suspension.

### FOLIAR APPLICATION:

Use ounce/Acre rate for Aerial applications and ounce/100 gallon rate for Ground applications.

Diseases Controlled	3336 WP Use Rate		Remarks
	Ground	Aerial	
Anthracnose	12-16 oz/100 gallon	48-64 oz/Acre	Apply as buds break or at first sign of disease. Repeat at 7-14 day (d) intervals as needed during disease period.
Black Spot of Rose <i>Diplocarpon rosae</i>	12-16 oz/100 gallon	48-64 oz/Acre	Apply early summer or at first sign of disease. Repeat every 7-14 d as needed during disease period.
Brown Rot and Blight <i>Monilinia, Sclerotinia, Whetzelinia</i>	12-16 oz/100 gallon	48-64 oz/Acre	Apply late Spring or at first sign of disease. Repeat every 7-14 d as needed during disease period.
Fusicladium and Venturia Leaf Scabs on: Crabapple, Hawthorn, Pear, Mountain Ash, Pyracantha, etc.	12-16 oz/100 gallon	48-64 oz/Acre	Apply as buds break. Repeat every 7-14 d as needed during disease period. Effective control requires coverage during leaf expansion. Rotations and/or tank mix combinations with Protect T/O, chlorothalonil or propiconazole can be utilized.
Leaf Spots and Blights caused by: <i>Ascochyta, Blumeriella, Botrytis,</i> <i>Cercospora, Coccoomyces, Corynespora,</i> <i>Curvularia, Didymellina,</i> <i>Entomosporium, Fabraea, Fusarium,</i> <i>Ramularia, Rhizoctonia, Marssonina,</i> <i>Mycosphaerella, Myrothecium, Phoma,</i> <i>Physalospora, Schizothyrium, Septoria,</i> <i>Sphaceloma</i>	12-16 oz/100 gallon	48-64 oz/Acre	Apply when disease symptoms first appear. Repeat every 7-14 d as needed during disease period. Rotations and/or tank mix combinations with Protect T/O or chlorothalonil can be utilized.
Ovulinia Blight	8-16 oz/100 gallon	32-64 oz/Acre	Apply as flowers open. Repeat every 7-14 d as needed during disease period.
Powdery Mildews	12-24	48-96	Apply when disease first appears and

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<i>Erysiphe, Microsphaera, Phyllactinia, Podosphaera, Oidium, Sphaerotheca</i>	oz/100 gallon	oz/A	repeat every 7-14 d during disease period. Rotations and/or tank mix combinations with Protect T/O or triadimefon can be utilized.
Rust Diseases caused by: <i>Puccinia, Gymnosporangium, Uromyces</i>	12-16 oz/100 gallon	48-64 oz/Acre	Apply late Spring or when symptoms first appear. Repeat every 7-14 d as needed during disease period. Rotations and/or tank mix combinations with Protect T/O or chlorothalonil are recommended.
Tip Blight of Pine <i>Sphaeropsis sapinea, Diplodia pinea</i>	16-24 oz/100 gallon	64-96 oz/A	Begin application in spring when new growth starts. Make a second application just before needles emerge from the sheath and a third application 14 d later. Thorough coverage is essential for optimal disease control.
Twig Blights, Cankers, and Diebacks <i>Diaporthe, Kabatina, Phoma, Phomopsis</i>	16-24 oz/100 gallon	64-96 oz/Acre	Apply when symptoms first appear. Repeat every 7-14 d as needed during disease period.

**SOIL DRENCH APPLICATION**

Diseases Controlled	Rate of 3336 WP oz/100 gal	Remarks
Stem, Crown, and Root Rots caused by: <i>Botrytis, Cyindrocladium, Fusarium, Gliocladium, Myrothecium, Penicillium, Ramularia, Rhizoctonia, Sclerotinia</i>	8-16	Apply as a drench or directed spray using hand held, mechanical, or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler irrigation systems, after seeding or sticking of cuttings (8 oz) or after transplanting (12-16 oz) to propagation beds, containers, pots, trays, or nursery or landscape beds at a rate to thoroughly soak the growing media through the root zone. A general guide is ¼ -3 pints of finished mixture per sq ft depending on the media type and depth (about 4 oz per 4 inch pot or 8 oz per 6 inch pot). Repeat every 21-28 d for adequate crop protection. Note: 3336 WP does not control <i>Pythium</i> or <i>Phytophthora</i> . Tank mix combinations with metalaxyl, mephenoxam, etridiazole, fosetyl-Al or propamocarb are required
Black Root Rot <i>Thielaviopsis</i>		

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for the control of *Pythium* and  
*Phytophthora*.

### PLANT DIP APPLICATION

Diseases Controlled	Rate of 3336 WP oz/100 gal	Remarks
Plant or Cutting Diseases caused by: <i>Botrytis</i> , <i>Cylindrocladium</i> , <i>Fusarium</i> , <i>Gliocladium</i> , <i>Myrothecium</i> , <i>Penicillium</i> , <i>Ramularia</i> , <i>Rhizoctonia</i> , <i>Sclerotinia</i> , <i>Thielaviopsis</i>	16-24	Immerse plants or cuttings for 10-15 min. Remove and allow to drain. <i>Note: Follow accepted hygiene practices to minimize the introduction and spread of water borne bacterial and water mold fungal diseases.</i>
Bulb, Corm, and Rhizome Rots caused by: <i>Botrytis</i> , <i>Cylindrocladium</i> , <i>Fusarium</i> , <i>Gliocladium</i> , <i>Myrothecium</i> , <i>Penicillium</i> , <i>Ramularia</i> , <i>Rhizoctonia</i> , <i>Sclerotinia</i> , <i>Thielaviopsis</i>	16-24	Soak cleaned bulbs for 15-30 min in warm solution (80-85° F). For storage disease prevention, treat bulbs preferably within 48 hr after digging. After treatment, dry well before storing. If bulbs are for forcing, treat bulbs that have been heat-cured. <i>Note: Follow accepted hygiene practices to minimize the introduction and spread of water borne bacterial and water mold fungal diseases.</i>

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