

228-628

5/20/2014

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

MAY 20 2014

Carrie M. Tackema  
Nufarm Americas Inc.  
14020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560

Subject: Addition of marketing claims  
Submission date: 4/17/2014, with a resubmission of 228-630 on 5/19/2014

Dear Ms. Tackema,

The Agency is in receipt of your Applications for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10. The Registration Division has conducted a review of these requests for their applicability under PRN 98-10 and finds that the actions requested fall within the scope of PRN 98-10.

The Agency acknowledges the addition of the following optional marketing claims to all of the labels identified in the table below:

- "Nufarm Grow a better tomorrow"
- "Grow a better tomorrow"

Chemical Name	EPA Reg. No.	Decision Number
Nufarm T-Methyl SPC 50 WSB Fungicide	228-628	490874
26/36 Fungicide	228-630	490875

The labels submitted with the applications have been stamped "Notification" and will be placed in our records. If you have questions concerning this letter, please contact Lindsay Roe at [roe.lindsay@epa.gov](mailto:roe.lindsay@epa.gov) or 703-347-0506.

Sincerely,

Shaja Joyner  
Product Manager 20  
Fungicide Branch  
Registration Division (7505P)



United States  
Environmental Protection Agency  
Washington, DC 20460

- Registration
- Amendment
- Other:

OPP Identifier Number

**Application for Pesticide - Section I**

1. Company/Product Number <b>228-628</b>	2. EPA Product Manager <b>S. Joyner</b>	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) <b>Nufarm T-Methyl SPC 50 WSB Fungicide</b>	PM# <b>20</b>	
5. Name and Address of Applicant (Include ZIP Code) <b>Nufarm Americas, Inc.</b> <b>4020 Aerial Center Parkway, Suite 101</b> <b>Morrisville, NC 27560</b>  <u>Please send all correspondence to "contact point" listed below</u>  <input type="checkbox"/> Check if this is a new address		6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(I), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____

**Section - II**

<input type="checkbox"/> Amendment – Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below

**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.)

**NOTIFICATION PER PRN 98-10**

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

**CONTACT:** Carrie M. Tackema (919) 379-2528 or [carrie.tackema@us.nufarm.com](mailto:carrie.tackema@us.nufarm.com)  
Nufarm Americas, Inc.  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560

**Section - III**

1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify)
*Certification must be submitted If "Yes" Unit Packaging wgt.    No. per container		If "Yes" Package wgt.    No. per container	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) Retail Container 4x8 oz. WSB	5. Location of Label Directions <input type="checkbox"/> On Label <input checked="" type="checkbox"/> On labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)		
Name <b>Carrie M. Tackema</b>	Title <b>Regulatory Manager</b>	Telephone No. (Include Area Code) <b>(919) 379-2528</b>
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received <b>(Stamped)</b>  cccc cccc cccc
2. Signature 	3. Title <b>Regulatory Manager</b>	
4. Typed Name <b>Carrie M. Tackema</b>	4. Date <b>April 17, 2014</b>	



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+1 919.379.2510  
+1 919.467.5923  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560  
www.nufarm.com

**Via Courier Delivery**

April 17, 2014

Ms. Shaja Joyner, PM#20  
Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
U. S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 S. Crystal Drive  
Arlington, VA 22202-4501

**RE: NOTIFICATION(s) per PRN 98-10**

#715 env's name  
T-M instead of  
T-Methyl

Nufarm T-Methyl SPC 50 WSB Fungicide	EPA Reg. No. 228-628 ✓	490874
Nufarm T-Methyl+IP SPC Fungicide	EPA Reg. No. 228-630 ✓	490875
3336 WP	EPA Reg. No. 1001-63 ✓	
3336 F	EPA Reg. No. 1001-69 ✓	
3336 DG Lite	EPA Reg. No. 1001-70 ✓	
3336 EG	EPA Reg. No. 1001-89 ✓	

Dear Ms. Joyner:

Enclosed please find six (6) application(s) for pesticide registration – NOTIFICATION for the above-referenced product(s). The purpose of these NOTIFICATION(s) is to include two (2) optional marketing claims:

*Nufarm Grow a better tomorrow  
Grow a better tomorrow*

These NOTIFICATION(s) are consistent with PRN 98-10; specifically, II N. In support of these NOTIFICATION(s) enclosed are the following:

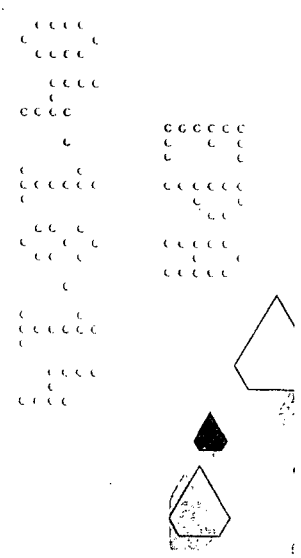
- EPA form 8570-1 Application for Pesticide Registration – NOTIFICATION;
- Label certification; and
- Proposed product labeling in PDF format on CD-rom.

Please contact me at directly at (919) 379-2528 or by email at [carrie.tackema@us.nufarm.com](mailto:carrie.tackema@us.nufarm.com) if you have any questions regarding this action.

Sincerely,

Carrie M. Tackema  
Regulatory Manager

Enclosure(s)



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# Nufarm T-Methyl SPC 50 WSB Fungicide

Systemic Turf and Ornamental Fungicide

For control of a broad spectrum of diseases of herbaceous bedding, flowering and tropical foliage plants, shrubs, trees and flowers in the landscape, interiorscape, nursery and greenhouse, containerized woody shrubs and trees, and turfgrass.

**ACTIVE INGREDIENT:**

Thiophanate-methyl ..... 50.0%

**OTHER INGREDIENTS:** ..... 50.0%

**TOTAL:** ..... 100.0%

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION/PRECAUCION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

See inside label booklet for additional **FIRSTAID** and **PRECAUTIONARY STATEMENTS**

For Chemical Spill, Leak, Fire, or Exposure, Call **CHEMTREC (800) 424-9300**  
For Medical Emergencies Only, Call **(877) 325-1840**

**NOTIFICATION**

EPA Reg. No. 228-628

**MAY 20 2014**

EPA Est. No.

Manufactured for:  
Nufarm Americas Inc.  
11901 South Austin Avenue  
Alsip, IL 60803

Nufarm T-Methyl SPC 50 WSB contains thiophanate-methyl, the active ingredient used in Cleary 3336™.

Net Weight: \_\_\_\_\_ (Lbs) (Oz.)

[Nufarm Grow a better tomorrow]  
[Grow a better tomorrow]

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION/PRECAUCION**

Causes moderate eye irritation. Harmful if swallowed. Avoid contact with eyes.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemically resistant to this product are listed below. If you want more options follow the instructions for Category A on an EPA chemical resistance category selection chart.

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber.
- Shoes plus socks

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

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

**Engineering Controls**

Water soluble packets when used correctly qualify as a closed mixing/loading system under the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240(d)(4)]. Mixers and loaders using water soluble packets must:

- Wear the personal protective equipment required above for mixers/loaders, and
- Be provided and must have immediately available for use in an emergency, such as a broken package, spill, or equipment breakdown coveralls, and chemical-resistant footwear.

When handlers use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

**User Safety Recommendations**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately 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.

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<b>FIRST AID</b>	
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOTLINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.	

**ENVIRONMENTAL HAZARDS**

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water. Do not contaminate water when disposing of equipment wash water.

**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.

Not for homeowner use. For use only by certified applicators or those under their immediate supervision. Not for use on turf being grown for sale or other commercial use as sod. Do not apply with fixed wing or rotary aircraft.

**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), notification to workers, and restricted-entry interval. The requirements in this box 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 over long-sleeved shirt and long pants,
- Chemical-resistant gloves made of any waterproof material,
- Chemical-resistant footwear plus socks,
- Chemical-resistant headgear for overhead exposures

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box 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 or allow others to enter the treated area until sprays have dried.

### GENERAL INFORMATION

This product provides broad spectrum disease control on containerized woody, flowering, herbaceous, and tropical foliage ornamental plants, trees, and turfgrasses.

This canister/bag contains four 8 ounce of product in water-soluble bags.

To mix, add 2/3 of the required amount of water to the spray or mixing tank. With agitator running, place the required amount of unopened water-soluble bags into the partially filled sprayer tank or closed system mix tank. Maintain agitation to ensure even suspension of the product. Make fresh daily. Spray uniformly over the area to be treated with a boom type or other power sprayer.

Do not handle water-soluble bags for longer than required to place into sprayer tank. Do not expose water-soluble bags to moisture.

Make applications of this product with ground equipment, using sufficient spray volume to provide thorough coverage. Do not tank mix this product with copper containing materials or with highly alkaline pesticides such as Bordeaux mixture or lime sulfur. No claim of compatibility with other pesticides is implied. Under conditions of severe disease pressure or when application intervals are shorter than 14 days due to persistent rainfall, use the higher concentration or rates provided in this label. Contact your local State Extension Service specialist for application schedule instructions.

**Important:** When treatments of this product are ineffective, a tolerant strain of fungus is most likely present. Consult your Nufarm representative or distributor, your local State Agricultural Experiment Station or State Agricultural Extension Service for advice on prompt use of some other labeled fungicide.

### CHEMIGATION INSTRUCTIONS

#### For Use on Ornamentals Only

Apply this product only through pressurized drench (flood), sprinkler, or drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation systems.

Do not connect chemigation system to a public water system.

Crop injury, lack of effectiveness, or illegal residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, contact your State Extension Service specialists, equipment manufacturers, or other experts.

Should the need arise, 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.

**Pressurized Drench (Flood) System**

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from back flow if water flow stops. Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

- 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.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also 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 withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 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.
- 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.

**Sprinkler Chemigation**

- 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.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also 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 withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 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.
- 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.
- Do not apply when wind speed favors drift beyond the area intended for treatment.

**Drip (Trickle) Chemigation**

- 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.



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- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also 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 withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 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.
- 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.

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### HORTICULTURAL APPLICATIONS

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#### GREENHOUSE, NURSERY, LANDSCAPE AND INTERIORSCAPE

This product provides broad spectrum control of many foliar, stem, and below ground diseases on a wide range of horticultural plants grown or maintained under a variety of conditions. Apply this product 14-21 days prior to when a particular disease usually appears and at the very latest, upon first sign of disease. Spray intervals usually range from 7 to 14 days with 14 days being for preventative treatments and the 7 day interval for times when conditions are judged acceptable for disease development. For hard-to-wet foliage, use an acceptable wetting agent to the spray tank to increase product efficacy. Use of a spreader-sticker when excessive and repeated foliar wetting occurs. Use this product to control listed diseases on non-commercial fruit and nut trees. Do not use fruit, nuts or sap from treated trees as food or feed.

Note: It has been determined this product is safe for use on the plant types listed in these directions for use based on cumulative data derived from research product trials and historical field use. As all species and cultivars have not been tested, trial applications be performed if a user wishes to make an application to a plant type not listed on the label but found on a similar use site and for a disease that is listed on the label. To conduct a trial application, apply at least two applications to at least 25 trial plants at the highest concentration, 7 days apart. Evaluate 7 days after the last application before initiating full-scale application. Do not use this product on the following plants: Swedish Ivy (*Neprolepsis exaltata*), Boston Fern (*Plectranthus australis*), and Easter Cactus (*Hatiora gaertneri*).

Plant Type	Such as but not limited to:
Herbaceous Bedding	Ageratum, Begonia, Canna, Coleus, Dahlia, Dusty Miller, Foxglove, Fuchsia, Geranium, Impatiens, Lavender, Marigold, Pansy, Petunia, Pinks, Primrose, Salvia, Statice, Strawflower, Tickseed, Verbena
Flowering	Chrysanthemum, Hydrangea, Hollyhock, Iris, Lily, Poinsettia
Tropical Foliage	Dieffenbachia, Dracaena, English Ivy, Philodendron, Pothos
Woody Ornamentals	Azalea, Hibiscus, Holly, Ligustrum, Rhododendron, Rose, Pyracantha
Evergreen Trees	Douglas Fir, Fir, Larch, Pine, Spruce
Deciduous Trees*	Ash, London Plane, Maple, Oak, Sycamore, Walnut

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<b>Plant Type</b>	<b>Such as but not limited to:</b>
Flowering Trees*	Cherry, Crabapple, Hawthorn, Mountain Ash, Pear

\*Do not use fruit, nuts or sap from treated trees as food or feed.

**FOLIAR SPRAY APPLICATIONS**

**Hydraulic Application Mixing Instructions**

Add the required amount of this product to a partially filled spray tank agitated by mechanical or hydraulic means and then add the remaining specified volume of water. Maintain continuous agitation to keep the material in suspension and apply with properly calibrated spray equipment.

**Application Concentrations (Mechanical or Hand Held):**

Use the specified amount of this product per 100 gallons of water per acre for the prevention and control of the diseases shown below.

For cut flower applications, do not apply more than 0.5 lbs. thiophanate methyl active ingredient per acre per application (equivalent to 16 oz. product per acre per application).

**FOLIAR DISEASES**

<b>Diseases/Pathogens Controlled</b>	<b>Concentration of Product oz./100 gals.</b>	<b>Remarks</b>
Anthracnose <i>Colletotrichum</i>	12-16	Apply as buds break or at first sign of disease. Repeat application at 7-14 day intervals as needed during disease period.
Black Spot of Rose <i>Diplocarpon rosae</i>	12-16	Apply early summer or at first sign of disease. Repeat application every 7-14 days as needed during disease period.
Brown Rot and Blight <i>Monilinia</i> , <i>Sclerotini</i> , <i>Whetzellinia</i>	12-16	Apply late spring or at first sign of disease. Repeat application every 7-14 days as needed during the disease period.
Fusicladium and Venturia Leaf Scabs on: Crabapple, Hawthorn, Pear, Mountain Ash, Pyracantha, etc.	12-16	Apply as buds break. Repeat application every 7-14 days during disease period. Effective control requires coverage during expansion. Rotations with chlorothalonil or propiconazole can be utilized.
Leaf Spots and Blights caused by: <i>Ascochyta</i> , <i>Blumeriella</i> , <i>Botrytis</i> , <i>Cercospora</i> , <i>Coccomyces</i> , <i>Corynespora</i> , <i>Curvularia</i> , <i>Didymellina</i> , <i>Entomosporium</i> , <i>Fabraea</i> , <i>Fusarium</i> , <i>Ramularia</i> , <i>Rhizoctonia</i> , <i>Marssoninia</i> , <i>Mycosphaerella</i> , <i>Myrothecium</i> , <i>Phoma</i> , <i>Physalospora</i> , <i>Schizothyrium</i> , <i>Septoria</i> , <i>Sphaceloma</i>	12-16	Make applications when disease symptoms first appear. Repeat every 7-14 days during disease period. Rotate with chlorothalonil.

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Diseases/Pathogens Controlled	Concentration of Product oz./100 gals.	Remarks
Ovulinia Blight	8-16	Apply as flowers open. Repeat every 7-14 days during disease period.
Powdery Mildews <i>Erysiphe, Microsphaera, Phyllactinia, Podosphaera, Oidium, Sphaerotheca</i>	8-16	Apply when disease first appears and repeat application every 7-14 days. Rotate with other effective products.
Rust Diseases caused by: <i>Puccinia, Gymnosporangium, Uromyces</i>	12-16	Apply late spring or when symptoms first appear. Repeat application every 7-14 days during disease period. Rotate with other effective products.
Tip Blight of Pine <i>Sphaeropsis sapinea, Diplodia pinea</i>	12-16	Begin applications in the spring when new growth starts. Make a second application just prior to needle emergence from the sheath and a third application 7 days later. Ensure thorough coverage.
Twig Blights, Cankers, and Diebacks <i>Diaporthe, Kabatina, Phoma, Phomopsis</i>	16-32	Apply when symptoms first appear. Repeat application every 7-14 days during disease period.

**Adjuvants:** Where rainfall and/or overhead irrigation is the norm, use of a compatible spreader/sticker is suggested. Where wetting of foliage is difficult, use a compatible wetting agent. Follow the phytotoxicity precautions described in the "HORTICULTURAL APPLICATIONS" section of this label.

**SOIL DRENCH APPLICATIONS**

**Mixing Instructions:** Add the required amount of this product to a partially filled tank agitated by mechanical or hydraulic means. Add the remaining required amount of water. Maintain continuous agitation throughout application to keep the material in suspension.

**Application Concentrations/Rates and Timing for Disease Control:** Use 8 to 16 oz. of this product per 100 gallons of water. Apply as a drench or heavy spray at the rate of 1/2 to 2 pints per square foot (100 gallons per 400 to 1,600 square feet). For small pots and shallow flats up to 4 inches in size, use 8 oz./100 gallons applied at 1 pint per square foot. For containers and pots 4 inches or larger, refer to the following table for the volume to apply. Make repeat applications at 4 to 8 week intervals depending on disease presence and conditions for disease development.

Container Type	Volume to Apply/Container	
	1 pt./sq. ft. Rate	2 pt./sq. ft. Rate
4 inch	2 fl. oz.	
5 inch	2 1/2 fl. oz.	
6 inch		6 1/2 fl. oz.
7 inch		8 1/2 fl. oz.
8 inch		11 fl. oz.
9 inch		14 fl. oz.
10 inch		17 1/2 fl. oz.

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For containers larger than 10 inches, consider a drench volume of 2 ½ to 3 pints per square foot of surface.

**Plant Types:** Containerized woody shrubs, trees, herbaceous/bedding, flowering, and tropical foliage plants and flowers and bedding plants in the landscape.

**Note:** Do not apply this product to plug trays or seedling flats at time of seeding.

**Soil Diseases Controlled:** Botrytis, Cythrodcladium, Fusarium, Gliocladium, Myrothecium, Penicillium, Ramularia, Rhizoctonia, Sclerotinia and Thielaviopsis.

**Note:** Pythium, Phytophthora and Cythrodcladium spathiphylli are not controlled by this product.

**PLANT DIP TREATMENT**

**Mixing Instructions:** Mix as described in the "FOLIAR DISEASES" and "SOIL DRENCH APPLICATIONS" sections of this label. Maintain continuous agitation during application.

**Application Concentration and Dipping Time**

**Plants or Cuttings:** Use 12-16 oz. of this product per 100 gallons of water. Immerse plants or cuttings for 10 to 15 minutes, remove and allow to drain and dry. Wear protective clothing as described under the "PERSONAL PROTECTIVE EQUIPMENT" section of this label.

**Bulbs, Corms, Tubers and Rhizomes -** Use 16-32 oz. of this product per 100 gallons of water. Soak cleaned bulbs for 15 to 30 minutes in warm dip (80-85°F) within 48 hours of digging. Dry bulbs after treatment. If bulbs are for forcing, treat bulbs that have been heat-cured.

**Plant Types:** Propagated units of woody, herbaceous, flowering and tropical foliage plants. Bulbs, corms, tubers, and rhizomes of plants such as but not limited to Caladium, Easter Lily, Tulip, Gladiolus, Daffodil, Iris.

**Diseases Controlled:** Botrytis, Cythrodcladium, Fusarium, Gliocladium, Myrothecium, Penicillium, Ramularia, Rhizoctonia, Sclerotinia, Thielaviopsis.

**INTERIORSCAPE USE**

**Spray Application:** Mix well before spraying. Ensure complete coverage by spraying foliage to runoff, thoroughly wetting upper and lower leaf surfaces. Use concentrations specified under the "FOLIAR DISEASES" and "SOIL DRENCH APPLICATIONS" sections of this label for foliar, twig and drench application. Use a coarse, low pressure spray when applying in public areas. Apply during non-business hours or cordon off area during spraying and until spray has dried. Avoid spraying wall coverings, plastic (vinyl) surfaces, drapes, carpets, and upholstery.

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**TURF APPLICATIONS**

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Use this product against certain foliar and soil diseases for use on all turf types such as golf course greens, tees and fairways, athletic fields, cemeteries, parks, and commercial and home lawns. Use this product both preventatively and curatively and is not phytotoxic. Do not use this product on turf being grown for sale or other commercial uses as sod.

**Mixing Instructions:** Add the required amount of this product to a partially filled tank agitated by mechanical or hydraulic means. Add the remaining required amount of water. Maintain continuous agitation to keep the material in suspension. For best results, use spray mixture the same day it is prepared.

**Turf Types:** All cool season and warm season grasses (such as but not limited to Bentgrasses, Bermudagrasses, Bluegrasses, Fescues, Ryegrasses, St. Augustinegrasses and Zoysiagrasses) or their mixtures.

Disease(s) Controlled	Rate of Product oz./1,000 sq. ft.*	Remarks
Anthracnose <i>Collectotricum graminicola</i>	2-4 (4-6)**	Apply when disease first appears. Make additional applications at 14 day intervals as needed. Allow spray to dry on leaves with no "watering in".
Dollar Spot <i>Sclerotinia homoeocarpa</i> Copper Spot <i>Gloeocerospora sorghi</i> Brown Patch and Zoysia Patch <i>Rhizoctonia solani</i> Red Thread <i>Laetisaria fusiformis</i>	2-4	Apply when disease first appears. Make additional applications at 14 day intervals as needed. Allow spray to dry on leaves with no "watering in".
Pink Snow Mold <i>Microdochium nivale</i> (Only for those areas where snow cover is not present the entire winter)	2-4	Apply this product in middle to late November before turf has stopped all growth activity. Lightly water application into the root zone for best results. For best results, use a spreader-sticker. Second spray should dry on leaf surfaces with no "watering-in". Minimum spray interval is 14 days.
Gray Leaf Spot <i>Pyricularia grisea</i>	4-6	Apply when conditions are favorable for disease development. Continue applications at 14 day intervals. Allow spray to dry on leaves with no "watering in".
Summer Patch <i>Magnaportha poae</i>	4-6	For preventative treatment, make 3 applications at 21 day intervals beginning in early May. Water product into the root zone thoroughly after application. For suppression, apply two applications at 14 day intervals beginning when disease first appears.
Fusarium Blight <i>Fusarium spp.</i> Necrotic Ring Spot and Spring Dead Spot <i>Leptosphaeria korrae</i>	4-6	Make two applications at 14 day intervals beginning when disease first appears.
Stripe Smut <i>Ustilago striiformis</i>	4-6	Make two applications at 14 day intervals when disease first appears. Water product into the root zone after application. For prevention, apply in the spring (just before grass begins growth), and in the fall.

\*Refer to the "Use Sites and Maximum Application Rates" table to determine allowable rates for each application.

\*\*Use 4-6 oz. rate for curative response to Basal Stem Anthracnose.

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### Turf Application Directions

Apply this product uniformly over the area to be treated with a properly calibrated power sprayer. Apply after mowing or avoid mowing for 12 hours after application. Apply sufficient water to obtain thorough coverage, usually 1 ½ to 2 ½ gallons per 1,000 sq. ft. of turf area. When treating golf greens, always treat aprons and approaches to golf greens. The minimum retreatment interval for turf applications is 14 days.

### Use Sites and Maximum Application Rates

Site	Maximum Single Application Rate oz./1,000 sq. ft.	Maximum Seasonal Application Rate oz./1,000 sq. ft.
Golf Course Greens, Tees and Aprons	6	16
Golf Course Fairways (Except Florida)	4	4
Golf Course Fairways (Florida Only)	2	2
Residential and Public Areas (home lawns, parks, athletic fields, schools, day care centers)	2	8

**Note to User: Do not graze animals on treated turf. Do not feed clippings to livestock or poultry.**

#### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in original container in a dry, temperature controlled area.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Nonrefillable container. DO NOT reuse or refill this container. Completely empty container into application equipment. Then offer for recycling if available, or place empty container in trash.

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