

66330-294

03/06/2009

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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Bill Washburn
Regulatory Manager
Arysta LifeScience North America LLC
15401 Weston Parkway, Suite 150
Cary, NC 27513

MAR 6 2009

Subject: Label Notification(s) for Pesticide Registration Notices 2007-4 and 98-10

1. **Update of company name**
2. **Added emergency telephone number(s)**
3. **Updated warranty statement**

Dear Mr. Washburn:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notices (PRN) 2007-4 and 98-10 dated February 4, 2009 for:

EPA Registration 66330-301
EPA Registration 66330-239
EPA Registration 66330-347
EPA Registration 66330-294
EPA Registration 66330-293

Thiophanate Methyl 70W WSB
CAPTEC 4L
PONNAX Plant Regulator
Thiophanate Methyl 50W
Thiophanate Methyl 4.5L

The Registration Division (RD) has conducted a review of this request for applicability under PR Notices 2007-4 and 98-10 and finds that the label changes requested falls within the scope of PR Notices 2007-4 and 98-10. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

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Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 05-31-98

	EPA United States Environmental Protection Agency Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other:	OPP Identifier Number
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Application for Pesticide - Section I

1. Company/Product Number 66330-294	2. EPA Product Manager MARY WALLER	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) THIOPHANATE METHYL 50W	PM# 21	
5. Name and Address of Applicant (Include ZIP Code) Arysta LifeScience North America, LLC 15401 Weston Parkway, Suite 150 Cary, NC 27513		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(I), my product is similar or identical in composition and labeling to: EPA Reg. No. NOTIFICATION Product Name MAR 6 2009
<input type="checkbox"/> Check if this is a new address		

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 of label change per PR Notice 2007-4. This notification is consistent with guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 USC Sec 1001 to willfully make any false statement to EPA. I further understand that if the amendment is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, 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.

Notification of label change per PR Notice 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 USC 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 may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
*Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1.0 lb., 3.0 lb., 5 lb., and 10 lb.		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input 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 Bill Washburn	Title Regulatory Manager	Telephone No. (Include Area Code) 901-432-5118
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Certification

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.

2. Signature <i>Bill Washburn</i>	3. Title Regulatory Manager	6. Date Application Received (Stamped)
4. Typed Name Bill Washburn	5. Date 02/04/09	



February 4, 2009

Ms. Mary Waller, PM 21
Document Processing Desk (NOTIF)
Office of Pesticide Programs – 7504P
U.S. Environmental Protection Agency
One Potomac Yard, Room S-4900
2777 South Crystal Drive
Arlington, VA 22202

**Subject: THIOPHANATE METHYL 50W
EPA Reg. No. 66330-294**

***Notification of Label Change per PR Notice 2007-4
and PR Notice 98-10***

Dear Ms. Waller:

Please find the following enclosed:

- Application for Pesticide Registration (Other) dated 02/04/09.
- One highlighted copy of subject label, showing all changes.
- One clean copy of the subject label.

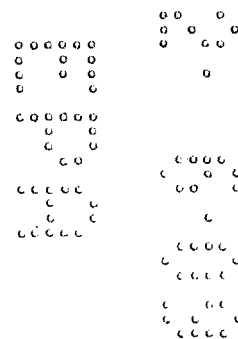
Notification of label change per PR Notice 2007-4. This notification is consistent with guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 USC Sec 1001 to willfully make any false statement to EPA. I further understand that if the amendment is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, 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.

Also in this submission, we are using PR Notice 98-10 to update the name of the company, emergency telephone numbers and warranty. Arysta LifeScience North America Corporation was changed to Arysta LifeScience North America, LLC.

Should you have any questions or comments, please do not hesitate to contact me at 901-432-5118 or by e-mail at bill.washburn@arystalifescience.com

Sincerely,

Bill Washburn
Regulatory Manager



NOTIFICATION 4/17
 PRN 0110
 MAR 6 2009

**THIOPHANATE METHYL 50W
 IN WATER SOLUBLE BAGS**

For prevention and control of fine turf diseases and 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] 50.0%

OTHER INGREDIENTS:..... 50.0%

TOTAL:..... 100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID	
IF IN EYES:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye • Call a poison control center or doctor for treatment advice
IF SWALLOWED:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice • Have person sip a glass of water if able to swallow • Do not induce vomiting unless told to do so by the poison control center or doctor
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> • Take off contaminated clothing • Rinse skin immediately with plenty of water for 15-20 minutes • Call a poison control center or doctor for treatment advice
IF INHALED:	<ul style="list-style-type: none"> • Move person to fresh air • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible • Call a poison control center or doctor for further treatment advice
Hot Line Number	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE: Call PROSAR at 1-866-303-6952 or 1-651-632-8946 if calling from outside the U.S. FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC at 1-800-434-9300 or 1-703-527-3887 if calling from outside of the U.S.	

See Additional Precautions and Use Directions Inside

EPA Reg. No. 66330-294
 EPA Est. No. 51036-GA-001
 AD xxxxxx

Manufactured For:
 Arysta LifeScience North America, LLC
 15401 Weston parkway, Suite 150
 Cary, NC 27513

NET CONTENTS: 4 8-ounce water-soluble bags

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

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant are Barrier Laminate, Nitrile Rubber \geq 14 mils, or viton \geq 14 mils gloves. If you want more options, follow the instructions for category A on an EPA chemical-resistance selection chart.

Mixers, loaders, applicators and supporting dip treatment handlers who handle this pesticide for any use covered by the Worker Protection Standard, 40 CFR Part 170, must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant footwear plus socks
- Chemical-resistant gloves
- Chemical-resistant apron

All other mixers, loaders, applicators and handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves for all mixers and loaders and for applicators using hand held equipment

See engineering controls for additional requirements.

NON-WPS USES

Do not enter or allow others to enter until sprays have dried.

USER SAFETY REQUIREMENTS

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.

Users should remove clothing/**PPE** immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

User should 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.

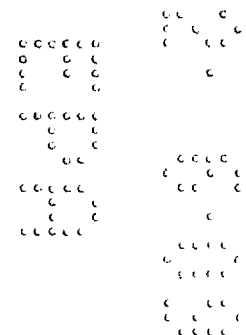
ENVIRONMENTAL HAZARDS

Do not apply directly to water, or 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 washwater or rinsate.

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 statements 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.

Personal Protective Equipment (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

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.

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.

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

RESTRICTIONS

Do not graze animals on treated turf. Do not feed clippings to livestock or poultry.

GENERAL INFORMATION

Apply THIOPHANATE METHYL 50W with ground equipment, using sufficient volume of spray to provide thorough coverage. Add required amount of THIOPHANATE METHYL 50W to a partially filled tank, agitate by mechanical or hydraulic means and then add remaining required amount of water. Continuous agitation is required to keep the material in 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. IMPORTANT, if after using THIOPHANATE METHYL 50W as recommended a treatment is not effective, a tolerant strain of fungi may be

present. Consult your local State Agricultural Extension Service for advice on the prompt use of some other suitable fungicide.

INSTRUCTIONS FOR APPLICATION

TO MIX: Slowly add THIOPHANATE METHYL 50W into spray tank while it is being filled and the agitator is running. THIOPHANATE METHYL 50W should be added prior to other pesticides or nutrients.

TANK MIXING: To broaden the spectrum of fungicidal control this product can be mixed with other fungicides such as iprodione 50% wettable powders, iprodione 2 lb/gallon liquids, chlorothalonil 6 lb/gallons liquids, vinclozolin 50% extruded granules, triadimefon 50% wettable powders, fenarimal 1 lb/gallon liquids, PCNB 75% wettable powders, thiram 75% wettable powders, mancozeb wettable powders or propiconazole 1.3 lb/gallon liquids for use on turf and ornamentals. Use only in accordance with the more restrictive label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

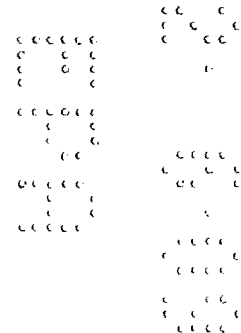
NOTE: Residential use is prohibited for several of the other fungicides listed as possible tank mix components. Do not apply tank mixtures of these products to residential areas unless the label of the other fungicide specifically allows residential uses.

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.

TURF APPLICATIONS

For use on all fine turf applications such as Bentgrasses, Bermuda grasses, Bluegrasses, Fescues, Ryegrasses, St. Augustine grasses, and Zoysia or their mixtures. THIOPHANATE METHYL 50W is not phytotoxic to any of the above mentioned grasses when used in accordance with the label. THIOPHANATE METHYL 50W is to be used for the prevention and control of the diseases listed below.

For best results use spray mixture the same day it is prepared. Spray uniformly over the area to be treated with a properly calibrated sprayer. Apply after mowing or avoid mowing twelve hours after application. Apply recommended amounts in sufficient water to obtain thorough coverage, (2-4 gallons per 1,000 square feet suggested). When treating golf greens, always treat aprons and fairway adjoining aprons.



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DISEASES CONTROLLED	RECOMMENDED RATE OUNCES PRODUCT/1000 Sq. Ft.	REMARKS
Anthracnose <i>(Colletotricum graminicola)</i> , Dollar Spot <i>(Mollorodiscus spp., Lanzia spp.)</i> , Copper Spot <i>(Gloeocerospora sorghi)</i> , Large Brown Patch <i>(Rhizoctonia solani)</i> , Red Thread <i>(Corticium fuciforme)</i>	1 - 2 (½ - 1 oz ai)	Apply when disease first appears. Lightly water into the root zone for best results. Minimum spray interval is 14 days. Maximum per year 10.88 lbs per acre. Maximum per application 2.74 lbs ai/acre.
Fusarium Blight <i>(Fusarium roseum and triticum)</i> , Necrotic Ring Spot <i>(Leptosphaeria korrea)</i> Leaf Spot <i>(Dreschlera spp.)</i> <i>(Helminthosporium spp.)</i> Stripe Smut <i>(Ustilago striiformis)</i> Summer Patch <i>(Magnaportha poae)*</i>	2 (1 oz ai)	Suppression only, especially when using the lower rates. Apply when disease first appears. For best results lightly water into the root zone and do not mow for 12 hours before or after application. Minimum spray interval is 14 days. When disease pressure is heavy, use the highest rate allowed or consider a tank mix with another fungicide labeled for the same use site and disease. Maximum per year 10.88 lbs per acre. Maximum per application 2.74 lbs ai/acre
Pink Snow Mold <i>(Microdochium nivale)</i>	2 (1 oz ai)	Apply middle-late November before turf has stopped all growth activity. Lightly water this application into the root zone for best results. For best results, use a spreader-sticker product. Second spray should dry on leaf surfaces with no "watering in". Maximum per year 10.88 lbs per acre. Maximum per application 2.74 lbs ai/acre. Minimum Spray interval is 14 days.

USE SITE	MAXIMUM SINGLE APPLICATION RATE		MAXIMUM SEASONAL APPLICATION RATE	
	Ounces Product/1000 sq ft	Pounds Product/Acre	Ounces Product/1000 sq ft	Pounds Product/Acre
Home lawns, parks, athletic fields, schools and day care centers	2	5.44	8	21.76
Golf Courses - Tees/greens/aprons	6	16.33	16	43.6
Golf Courses - Fairways (except Florida) only during overseeding	4	10.8	4	10.88
Golf Courses - Fairways (Florida only)	2	5.44	2	5.44

TURF RESTRICTIONS:

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 graze animals on treated turf. Do not feed clippings to livestock or poultry.

Do not apply to home orchards/backyard fruit trees after fruit set.

Do not apply with fixed wing or rotary aircraft.

Minimum 14-day Retreatment Interval.

Do not exceed the maximum single application rate listed on the "Use Site" table even when the recommended rate for a particular disease listed on the "Diseases Controlled" table exceeds the "Use Site" table maximum rate.

HORTICULTURAL APPLICATIONS**Nursery, Greenhouse, Landscape, and Interiorscape**

Not for homeowner use. For use only certified applicators or those under their immediate supervision.

Annual And Perennial Flowers, Ground Covers, Plus Deciduous And Evergreen Trees And Shrubs

Begin applications when disease first appears, or during suspected periods of disease incidence. Apply additional applications every 4 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.

Do not apply with fixed wing or rotary aircraft.

THIOPHANATE METHYL 50W may be used to control listed diseases on the following fruit and nut trees grown for non-commercial purposes:

Almond, apple, apricot, cherry, nectarine, peach, pecan, plum, and prune trees.

NOTE: Do not use fruit, nuts, or sap from treated trees as food or feed.

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: Swedish Ivy (*Nephrrolepis exaltata*), Boston Fern (*Plectranthus australis*), and Easter Cactus (*Hatiora gaertneri*).

FOLIAR SPRAY

DISEASES CONTROLLED	RATE Oz. Product/ 100 gallons spray/acre	REMARKS
Ovulinia Blight of Azalea and Rhododendron	8-16 (4-8 oz ai)	Apply as flowers open. Repeat every 4 days as needed during disease period.
Powdery Mildew	12-24 (6-8 oz ai)	Apply mid-summer or at first sign of disease.
Anthracnose	12-16 (6-8 oz ai)	Apply as buds break. Repeat every 4 days as needed during disease period.
Ascochyta Leaf Blight	12-16 (6-8 oz ai)	Repeat every 4 days as needed during disease period.
Black Spot of Rose, Botrytis Flower Blight, Corynespora Leafspot, Curvularia Leaf Blight, Iris Leaf Spot	12-16 (6-8 oz ai)	Apply mid-summer or at first sign of disease
Rust of Crabapple*	12-16 (6-8 oz ai)	Repeat every 4 days as needed during disease period.
Leaf Scabs of Crabapple*, Pyracantha, Hawthorn, Pear*, Mountain Ash (<i>Fusicladium</i> and <i>Venturia</i> spp.)	12-16 (6-8 oz ai)	Apply mid-summer or at first sign of disease. Note: May be combined with mancozeb products for enhanced protection and control.
Tip Blight of Pine (<i>Sphaeropsis sapinea</i> , <i>Diplodia pinea</i>)	12-16 (6-8 oz ai)	Apply along with 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. Note: May be combined with mancozeb products for enhanced protection and control.
Twig Blights of Juniper (<i>Phomopsis</i> and <i>Kabatina</i> spp.)	24 (12 oz ai)	For <i>Phomopsis</i> , apply in spring. For <i>Kabatina</i> , apply late summer. Repeat every 4 days as needed during disease period.

* Do not use treated crabapples or pears for food purposes.

DRENCH TREATMENTS

DISEASE(s) CONTROLLED	RATE Oz. / 100 gallons	REMARKS
Stem Rots, Crown Rots, and Root Rots: (<i>Botrytis</i> , <i>Fusarium</i> , <i>Gliocladium</i> , <i>Myrothecium</i> , <i>Ramularia</i> , <i>Rhizoctonia</i> , and <i>Sclerotinia</i> spp.) Black Root Rot (<i>Thielaviopsis</i> spp.) Cylindrocladium Rot	12-16 (6-8 oz ai)	Apply after transplanting to propagation bed, container, or pot at a rate to thoroughly soak the growing media (usually 1-3 pints per square foot depending on the media type and depth). Repeat every 21-28 days to provide adequate crop protection.

BULB TREATMENTS

DISEASE(s) CONTROLLED	RATE Oz. / 100 gallons	REMARKS
Bulb, Corm, and Rhizome Rots (<i>Fusarium</i> and <i>Penicillium</i> spp.)	12 – 16 (6-8 oz ai)	Soak immediately after digging for 30 minutes in warm dip (80-85 degrees F). Dry well before storing.

Note: THIOPHANATE METHYL 50W does not control *Pythium* spp. or *Phytophthora* spp.

APPLICATION THROUGH IRRIGATION SYSTEMS**General Information:**

Apply this product only through the following types of sprinkler systems center pivot, lateral move, end tow, side wheel roll, traveler, solid set, hand move (or similar); or flood (basin) irrigation system. Do not apply this product through any other type of irrigation system.

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

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

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.

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 INFORMATION FOR IRRIGATION SYSTEMS
CONNECTED TO A PUBLIC WATER SUPPLY**

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.

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.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back towards the injection pump.

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.

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.

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.

Do not apply when wind speed favors drift beyond the area intended for treatment.

GENERAL CHEMIGATION APPLICATION INSTRUCTIONS

Remove scale, pesticide residue, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

Determine the treatment rate as indicated in the directions for use for crop and pathogen and measure the intended areas of application.

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.

Maintain a gentle agitation in the mix tank during 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.

PRECAUTIONS FOR APPLICATIONS THROUGH SPRINKLER AND DRIP (TRICKLE) IRRIGATION SYSTEMS

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 shutdown.

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.

PRECAUTIONS FOR FOR FLOOD (BASIN), FURROW AND BORDER CHEMIGATION

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 backflow 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, quickclosing 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 function 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.

STORAGE AND DISPOSAL

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

STORAGE: Store in a cool, dry area in original unopened container. Store in a secured area unavailable to unauthorized persons.

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 disposed of 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 bag into application equipment. Offer for recycling, if available, or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If bag is disposed of by burning, stay out of smoke.

Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America, LLC ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

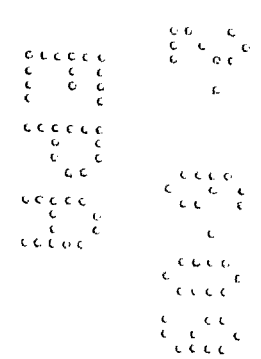
Arysta warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF ARYSTA IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF ARYSTA, MANUFACTURER, AND

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SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT ARYSTA'S ELECTION, THE REPLACEMENT OF THE PRODUCT.



**THIOPHANATE METHYL 50W
IN WATER SOLUBLE BAGS**

For prevention and control of fine turf diseases and 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]
50.0%

OTHER INGREDIENTS:.....
50.0%

TOTAL:.....
100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

IF IN EYES:	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15-20 minutes Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye Call a poison control center or doctor for treatment advice
IF SWALLOWED:	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice Have person sip a glass of water if able to swallow Do not induce vomiting unless told to do so by the poison control center or doctor
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> Take off contaminated clothing Rinse skin immediately with plenty of water for 15-20 minutes Call a poison control center or doctor for treatment advice
IF INHALED:	<ul style="list-style-type: none"> Move person to fresh air If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible Call a poison control center or doctor for further treatment advice

Hot Line Number

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE: Call PROSAR at 1-866-303-6952 or 1-651-632-6943 if calling from outside the U.S.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC at 1-800-434-9300 or 1-703-527-3837 if calling from outside of the U.S.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or 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 washwater or rinsate.

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.

STORAGE AND DISPOSAL

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

STORAGE: Store in a cool, dry area in original unopened container. Store in a secured area unavailable to unauthorized persons.

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 disposed of 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.

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See Additional Precautions and Use Directions Inside Attached Booklet

EPA Reg. No. 66330-294
EPA Est. No. 51036-GA-001
AD 091808

Manufactured For:
Arysta LifeScience North America, LLC
15401 Weston Parkway, Suite 150
Cary, NC 27513

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BASE LABEL