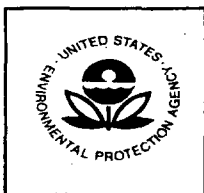


66330-327

09/18/2008

1/17



U. S. ENVIRONMENTAL
PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Registration
Number:

66330-327

Date of Issuance:

SEP 18 2008

NOTICE OF PESTICIDE:

☐ Registration
☒ Reregistration
(under FIFRA, as amended)

Term of Issuance:
Unconditional

Name of Pesticide Product:
Thiophanate Methyl 85EG

Name and Address of Registrant (include ZIP Code):

Bill Washburn, Regulatory Manager
Arysta Lifescience North America, LLC
530 Oak Court Drive, Suite 100
Memphis, TN 38117

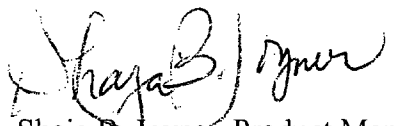
Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

Based on your response to the Reregistration Eligibility Decision for Thiophanate Methyl, EPA has reregistered the product listed above provided you make the changes on the following page. This action is taken under the authority of section 4(g)(2)(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

Continued on Page 2

Signature of Approving Official:


Shaja B. Joyner, Product Manager Team 20
Fungicide Branch
Registration Division (7505P)

Date:

9/18/08

Note: You may delete the text "Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas." from the Agricultural Use Requirements box on page 3.

Page 2 – "User Safety Requirements," please revise text using capital letters.

Page 3 – "Environmental Hazards," delete "Do not apply where runoff is likely to occur." Also revise wash water to read as "washwaters" and add "or rinsate" to the end of this sentence.

Page 6 – Pre-Harvest Apple remarks section, please revise the maximum ai/acre/application rate for California to read as "1.0" lbs, and delete 1.01 lbs.

Page 7 – Pecans remarks section, please revise statement to read "Do not apply after shuck split."

Page 9 – Apricots remarks section, please revise the minimum retreatment interval to "7" days, and delete 10-14 days.

Page 11 – Plums/Prunes remarks section, please add "Do not apply after shuck split."

A copy of your label stamped "Accepted with comments" is enclosed for your records. If you have any questions, contact Lisa Jones of my team at (703) 308-9424 or at jones.lisa@epa.gov.

Sincerely,

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

Enclosures: 14 March 2007 Preliminary Label Assessment
1 August 2006 Product Chemistry Review
24 February 2006 Product Chemistry Review
10 January 2006 Acute Toxicity Review
Stamped copy of label

sent 11/2007

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THIOPHANATE METHYL 85EG

ACTIVE INGREDIENT:

Thiophanate-methyl (dimethyl[1,2-phenylene)-
bis(iminocarbonothioyl)]bis(carbamate)] 85.0%

INERT INGREDIENTS: 15.0%

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 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
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• Do not give anything by mouth to an unconscious person
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. 66330-327
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: _____

ACCEPTED
with COMMENTS
In EPA Letter Dated
SEP 18 2008

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

66330-1327

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product 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.

Handlers mixing, loading and apply the product as a dip must wear:

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

All other mixers, loaders, applicators and other 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 Shoes plus socks

User Safety Requirements

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. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

USER SAFETY RECOMMENDATIONS

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing/**PPE** immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. 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 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 apply where runoff is likely to occur. 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.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours except for the following:

- Almonds, dry beans, onions, pecans, and pistachio: The REI is 3 days
- Apples, apricots, cherries, grapes, nectarines, peaches, pears, plums/prunes, and potato: The REI is 2 days
- Strawberries, wheat, cucurbits, soybeans, sugar beets, peanuts and green beans: The REI is 1 day

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

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:

1. Coveralls over long sleeved shirt and long pants
2. Chemical-resistant gloves made of any waterproof material
3. Chemical-resistant footwear plus socks
4. 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.

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GENERAL INFORMATION

Apply THIOPHANATE METHYL 85EG with ground or aerial equipment, using sufficient volume of spray to provide thorough coverage.

Use a minimum of 2 gallons water per acre for aerial (5 gallons in California) or 10 gallons for ground.

Add required amount of THIOPHANATE METHYL 85EG to partially filled tank agitated by mechanical or hydraulic means, and then add remaining required amount of water. Continuous agitation is required to keep the material in suspension. Arysta LifeScience North America Corporation does not recommend tank mixes with highly alkaline pesticides, such as Bordeaux mixture or lime sulfur. No claim of compatibility with other pesticides is implied. Use the higher rate under conditions of severe disease pressure. Also, see local State Extension Service recommendations for application schedules.

When an adjuvant is to be used with this product, Arysta LifeScience recommends the use of a Chemical Producers and Distributors Association certified adjuvant.

Chemigation instructions follow Directions for Use. Do not apply through any irrigation system unless these instructions are followed.

RESISTANCE MANAGEMENT

To avoid the development of tolerant or resistant strains of fungi, THIOPHANATE METHYL 85 EG should always be tank mixed with a fungicide of different chemistry, and/or a fungicide of different chemistry should be alternated with THIOPHANATE METHYL 85 EG at each application.

ARYSTA LIFESCIENCE NORTH AMERICA CORPORATION DOES NOT RECOMMEND THE USE OF PRODUCTS CONTAINING BENOMYL OR THIABENDAZOLE IN COMBINATION OR IN ROTATION WITH THIOPHANATE METHYL 85 EG.

If after using THIOPHANATE METHYL 85 EG as recommended, the treatment is not effective; a tolerant or resistant strain of fungi may be present. Discontinue the use of THIOPHANATE METHYL 85 EG for at least one season. Do not use products containing thiabendazole as substitutes for THIOPHANATE METHYL 85 EG, as they are of similar chemistry and will contribute to the development of resistance. As long as these precautions are followed, THIOPHANATE METHYL 85 EG can be useful for disease control, even if resistant strains are present.

RECOMMENDED USES

ALMONDS

DISEASES	LBS PRODUCT/ACRE	REMARKS
Brown Rot Blossom Blight (<i>Monilinia sp.</i>)	0.8-1.2	Apply at pink bud and petal fall.
Scab (<i>Cladosporium sp.</i>)	(0.7 – 1.02 lbs ai)	
Maximum seasonal application rate is 2.1 lbs. product (1.78 lbs ai) per acre. Maximum ai/acre/application rate is 1.05 lbs. The REI is 3 days. The PreHarvest Interval is 1 day.		

APPLES (Pre-harvest)

DISEASES	LBS PRODUCT/ACRE	REMARKS
Apple Scab (<i>Venturia sp.</i>)	0.6-0.8	Apply at 5 to 10 day intervals from green tip through petal fall; continue at 7 to 14 day intervals in cover sprays.
Bitter Rot (<i>Glomerella</i>)	(0.5 – 0.7 lbs ai)	
Flyspeck (<i>Zygophiala sp.</i>)		
Powdery Mildew (<i>Podosphaera sp.</i>)		
Sooty Blotch (<i>Gloeodes sp.</i>)		
Black Rot (<i>Botryosphaeria sp.</i>)		
Brooks Fruit Rot (<i>Mycosphaerella sp.</i>)		
Pre-harvest interval is one day. Maximum seasonal application rate is 2.8 lbs product (2.38 lbs ai) per acre. Maximum ai/acre/application rate is 0.7 lbs. (except California) Maximum ai/acre/applicate rate is 1.01 lbs in California. Minimum retreatment interval of 7 days, except during flowering where the interval is 5 days. The REI is 2 days.		

BEANS

DISEASES	LBS PRODUCT/ACRE	REMARKS
Gray Mold (<i>Botrytis sp.</i>)	0.8-1.6	Apply once at 50% to 70% of full bloom, OR
White Mold (<i>Sclerotinia sp.</i>)	(0.68 – 1.4 lbs ai)	Apply twice with the first application at 20% to 30% of full bloom and a second application at 4 to 7 days later or at peak bloom.
Anthracnose		
Pre-harvest interval for snap or dry beans is 14 days. Pre-harvest interval for lima beans is 28 days in California and 14 days outside of California. Maximum seasonal application rate is 3.3 lbs. product (2.8 lbs a.i) per acre. The REI for green beans is 1 day. The REI for dry beans is 3 days.		

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CUCURBITS (Cantaloupes, Casaba, Cucumber, Melons, Pumpkins, Summer, Winter Squash, Watermelons)

California: use only for Powdery Mildew control.

DISEASES	LBS PRODUCT/ACRE	REMARKS
Anthracnose <i>(Colletotrichum sp.)</i> Gummy Stem Blight <i>(Didymella sp.)</i> Powdery Mildew <i>(Erysiphe sp.)</i> Target Spot <i>(Corynespora sp.)</i>	0.2-0.4 (0.17 – 0.34 lbs ai) for ground applications OR 0.4 (0.34 lbs ai) for aerial applications	Begin applications when plants begin to run or when disease first appears, and repeat at 7 to 14 day intervals or as needed. For Target Spot, use at 7 day intervals as needed.
Belly Rots <i>(Rhizoctonia/ Fusarium sp.)</i>	0.4 (0.34 lbs ai)	For Belly Rots, apply in sufficient volume to allow runoff to the soil. Will not control Pythium sp.
Suppression of vine decay caused by <i>Momosporacus cannonballis</i>	0.4 (0.34 lbs ai)	For disease suppression, apply at 14 day intervals, beginning at emergence and continuing to harvest. Application weekly or biweekly, beginning 4-6 weeks prior to harvest will also offer suppression, but may be as effective as a season long.
Pre-harvest interval is 1 day. Maximum seasonal application rate is 2.5 lbs. product (2.1 lbs ai) per acre. The REI is 1 day.		

ONIONS - GARLIC (In Furrow)

DISEASES	LBS PRODUCT/ACRE	REMARKS
White Rot <i>(Sclerotium sp.)</i>	1.6 (1.4 lbs ai)	Spray directly into the open furrow at the time of planting seed, sets or bulbs. Not for this use through any type of irrigation system.
Maximum seasonal application rate is 1.6 lbs. product (1.4 lbs ai) per acre. Maximum ai/acre/application rate is 1.4 lbs. The REI is 3 days.		

PEANUTS

DISEASES	LBS PRODUCT/ACRE	REMARKS
Leaf Spot (<i>Cercospora spp.</i>)	0.4	Begin applications 35 days after planting or when disease first appears and repeat at 14 to 21 day intervals as needed.
Rust (<i>Puccinia</i>)	(0.34 lbs ai)	
Limb Rot (<i>Rhizoctonia</i>)		Use the 14 day interval under severe disease pressure.
Ascochyta Web Blotch		
Pre-harvest interval is 14 days. Maximum seasonal application rate is 1.6 lbs. product (1.4 lb ai) per acre. The REI is 1 day.		

PECANS

DISEASES	LBS PRODUCT/ACRE	REMARKS
Brown Spot (<i>Cercospora</i> sp.)	0.4-0.8	Use the higher rate for trees over 30 feet tall and for aerial applications in Arkansas, Georgia, Louisiana, Mississippi, Oklahoma, and Texas.
Downy Spot (<i>Mycosphaerella</i> sp.)	(0.34 – 0.68 lbs ai)	
Powdery Mildew (<i>Microsphaera</i> sp.)		Begin applications when first leaves are showing and repeat at 3 to 4 week intervals until shuck split.
Scab (<i>Fusicladium</i> sp.)		
Stem End Blight (<i>Botryosphaeria</i> sp.)		
Zonate Leaf Spot (<i>Cristulariella</i> sp.)		
Do not apply after shuck split. Maximum seasonal application rate is 2.5 lbs. product (2.1 lb ai) per acre. The PreHarvest Interval is 1 day. The REI is 3 days.		

SOYBEANS

DISEASES	LBS PRODUCT/ACRE	REMARKS
Anthracnose <i>(Colletotrichum sp.)</i> Brown Spot <i>(Septoria sp.)</i> Frogeye Leaf Spot <i>(Cercospora sp.)</i> Pod and Stem Blight <i>(Diaporthe</i> <i>sp. and the imperfect stage,</i> <i>Phomopsis sp.)</i> Purple Seed Stain <i>(Cercospora sp.)</i>	0.4-0.8 (0.34 – 0.68 lbs ai)	Apply from full bloom to when pods are 1/8" to 1/4" in length. Make a second application 14 to 21 days later. Applications later than 14 days after pods average 1/4 inch in length are prohibited. Use the high rate under severe disease pressure.
Sclerotinia	0.6-0.8 (0.51 – 0.68 lbs ai)	Make one application at early bloom (R-1 to R-2 stage) followed by a second application 14 days later if conditions are favorable for continued disease pressure.
Aerial Blight (suppression)	0.8 (0.68 lbs ai)	Make initial application when disease threatens and repeat 14-21 days later if needed.
FOR SEED BEANS ONLY - For seed quality make a single application at the high rate when beans form in the pod. Use a minimum of 5 gallons by air. Do not make more than 2 applications per year. Do not graze or feed treated vines or hay to livestock. Pre-harvest interval is 21 days. The REI is 1 day.		

STRAWBERRIES

DISEASES	LBS PRODUCT/ACRE	REMARKS
Fruit Rot <i>(Botrytis sp.)</i> Leaf Blight <i>(Dendrophoma sp.)</i> Leaf Scorch <i>(Diplocarpon sp.)</i>	0.6-0.8 (0.51 – 0.68 lbs ai)	Begin applications at early bloom and continue at 7 to 10 day intervals. Use the higher rate East of the Rocky Mountains and under conditions of severe disease pressure. Do not apply more than 3.3 pounds product per acre per year.
Do not apply within 1 day of harvest. The REI is 1 day.		

SUGARBEETS

DISEASES	LBS PRODUCT/ACRE	REMARKS
Leaf Spot <i>(Cercospora sp.)</i>	0.4-0.8 (0.34 – 0.68 lbs ai)	Begin applications when disease first appears and repeat at 14 to 21 day intervals as needed.
The REI is 1 day. Pre-harvest interval is 21 days. Maximum seasonal application rate is 2.5 lbs. product (2.1 lb ai) per acre. Maximum ai/acre/application rate is 0.7 lbs. (except California). Maximum ai/acre/application rate is 0.35 lbs in California.		

STONE FRUITS (Pre-harvest)

CROP	DISEASES	LBS/ ACRE	REMARKS
Apricots	Brown Rot Blossom/twig Blight (<i>Monilinia</i> sp.) Brown Rot of Fruit (<i>Monilinia</i> sp.)	0.8-1.2 (0.68 - 1.02 lbs ai)	Apply at early bloom (red bud). Make a second application at full bloom. In addition, for brown rot of fruit, apply 1 or 2 sprays starting 3 weeks before harvest. If needed under severe disease pressure, apply additional sprays at 10 to 14 day intervals between full bloom and final pre-harvest sprays.
	Pre-harvest interval is 1 day. Maximum seasonal application rate is 3.3 lbs. product (2.8 lb ai) per acre. The REI is 2 days.		
Cherries	Brown Rot Blossom/twig Blight (<i>Monilinia</i> sp.) Brown rot of fruit (<i>Monilinia</i> sp.)	0.8-1.2 (0.68 - 1.02 lbs ai)	Apply at early bloom. Make a second application at full bloom. In addition, for Brown Rot of fruit, apply 1 or 2 sprays starting 3 weeks before harvest. If needed under severe disease pressure, apply additional sprays at 10-14 day intervals between full bloom and final pre-harvest sprays.
	Cherry Leaf Spot (<i>Coccomyces</i> sp.)	0.8-1.2 (0.68 - 1.02 lbs ai)	Apply at petal fall or before, when leaves first unfold, and at first, second and third cover at 10 to 14 day intervals and one spray 14 to 21 days after harvest.
	Powdery Mildew (<i>Podosphaera</i> sp.) and (<i>Sphaerotheca</i> sp.)	0.8-1.2 (0.68 - 1.02 lbs ai) PLUS	Apply at early bloom (early popcorn). Make a second application at full bloom. PLUS Apply at shuck fall and first cover.
	0.8-1.2 (0.68 - 1.02 lbs ai)		
Nectarines	Pre-harvest interval is 1 day. Maximum seasonal application rate is 3.3 lbs. product (2.8 lb ai) per acre. The REI is 2 days.		
	Brown Rot Blossom/twig Blight (<i>Monilinia</i> sp.) Brown Rot of Fruit (<i>Monilinia</i> sp.)	0.8-1.2 (0.68 - 1.02 lbs ai)	Apply at early bloom (pink bud). Make a second application at full bloom if conditions favor disease development. In addition, for Brown Rot of Fruit, apply 1 or 2 sprays starting 3 weeks before harvest. If needed under severe disease pressure, apply additional sprays at 10 to 14 day intervals between full bloom and final pre-harvest sprays.
Nectarines	Pre-harvest interval is 1 day. Maximum seasonal application rate is 3.3 lbs. product (2.8 lb ai) per acre. The REI is 2 days.		

CROP	DISEASES	LBS/ ACRE	REMARKS
Peaches	Brown Rot Blossom/twig Blight (<i>Monilinia</i> sp.) Brown Rot of Fruit (<i>Monilinia</i> sp.)	0.8-1.2 (0.68 - 1.02 lbs ai)	Apply at early bloom (pink bud). Make a second application at full bloom if conditions favor disease development. In addition, for Brown Rot of Fruit, apply 1 or 2 sprays starting 3 weeks before harvest. If needed under severe disease pressure, apply additional sprays at 10 to 14 day intervals between full bloom and final pre-harvest sprays.
	Peach Scab (<i>Cladosporium</i> sp.)	0.8-1.2 (0.68 - 1.02 lbs ai) PLUS 0.8-1.2 (0.68 - 1.02 lbs ai)	Apply at early bloom (pink bud). Make a second application at full bloom if conditions favor disease development. PLUS Apply at shuck split and at first cover sprays.
	Pre-harvest interval is 1 day. Maximum seasonal application rate is 3.3 lbs. product (2.8 lb ai) per acre. The REI is 2 days.		
Plums/ Prunes	Brown Rot Blossom/twig Blight (<i>Monilinia</i> sp.) Brown Rot of Fruit (<i>Monilinia</i> sp.)	0.8-1.2 (0.68 - 1.02 lbs ai)	Apply at early bloom (green tip). Make a second application at full bloom. In addition, for Brown Rot of Fruit, apply 1 or 2 sprays starting 3 weeks before harvest. If needed under severe disease pressure, apply additional sprays at 10 to 14 day intervals between full bloom and final pre-harvest sprays.
	Black Knot (<i>Dibotryon</i> sp.)	0.8-1.2 (0.68 - 1.02 lbs ai)	Apply at pre-bloom, petal fall, and at first, second, and third cover sprays at 10 to 14 day intervals.
	Leaf Spot (<i>Coccomyces</i> sp.)	0.8-1.2 (0.68 - 1.02 lbs ai)	Apply at petal fall, shuck, and at first, second and third cover sprays at 10 to 14 day intervals and 1 spray 14 to 21 days after harvest.
	Pre-harvest interval is 1 day. Maximum seasonal application rate is 3.3 lbs. product (2.8 lb ai) per acre. The REI is 2 days.		

FALL-SEEDED WHEAT IN IDAHO, OREGON AND WASHINGTON ONLY

DISEASES	LBS PRODUCT/ACRE	REMARKS
<i>Pseudocercospora</i> sp. (Foot Rot, Strawbreaker, Eye Spot)	0.8 (0.68 lbs ai)	Apply THIOPHANATE METHYL 85 EG at the rate indicated in a single application by air or ground after wheat is tillered but before stem elongation has begun. Use sufficient water to obtain thorough coverage.
Pre-harvest interval is 90 days. Do not cut for hay within 90 days of application or allow livestock to graze in treated area prior to harvest. Maximum seasonal application rate is 0.7 lbs. a.i. per acre. The REI is 1 day.		

FORESTRY

CROP	DISEASE	LBS/ ACRE	Oz./100 GAL	REMARK
Conifers (Pine) Austrian Red Scots Christmas Trees	Tip Blight (<i>Diplodia</i>)	40 oz. (2.5 lb.)	13 oz/A 100 gal./A	Apply at bud break. Repeat 10 to 14 days later, just before needles emerge from sheath; repeat again 10 to 14 days after needle emergence.
(Fir) Douglas	Swiss Needle Cast (<i>Phaeocryptopus</i>) Rhabdocone Needle Cast	56 oz. (3.5 lb.)	13 oz./A 50-100 gal./A	Apply initially in early May. Repeat at 4 week intervals. Add a spreader/sticker to improve coverage. Use minimum gallonage with mist-blower types of sprayers and higher gallonage with conventional sprayers.
Do not graze livestock in treated areas.				
Conifers (seedling treatment) Longleaf	Brown Needle Blight (<i>Scirrhia</i>)		0.8 oz./9.5 oz. Dry Kaolin clay for seedling roots	Wet seedling roots in clean water, then apply Thiophanate Methyl 85 EG /Kaolinite mixture to wet roots.
Loblolly Longleaf Slash	Fusarium and Rhizoctonia Root Rot		1.6 oz./50 oz. Kaolin clay, plus enough water to make a slurry	Thoroughly cover seedling roots with Thiophanate Methyl 85 EG/Kaolinite slurry.
<p>The REI is 12 hours.</p> <p>Do not apply mixture to seedling foliage.</p> <p>During treatment, avoid excessive drying of roots or exposure to temperatures greater than 90°F or less than 32°F.</p> <p>Thiophanate Methyl 85 EG does not control Pythium or Phytophthora.</p>				

CHEMIGATION

(NOT REGISTERED IN CALIFORNIA FOR THIS USE)

GENERAL INSTRUCTIONS

Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move, or drip (mini-micro sprinklers, strip tubing, trickle) irrigation systems. 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 nonuniform distribution of treated water.

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

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.

Do not connect chemigation system to any public water system.

Public water system means a system for the provision 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.

SYSTEM REQUIREMENTS

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.

INSTRUCTIONS FOR SPRINKLER (OVERHEAD) IRRIGATION

Observe the requirements in the System Requirements section above.

Apply THIOPHANATE METHYL 85 EG only through systems containing anti-siphon and check valves designed to prevent water source contamination or overflow of the mix tank and containing interlocking controls between the metering device and the water pump to insure simultaneous shut-off.

Maintain a gentle continuous agitation in mix tank during mixing and application to assure a uniform suspension.

Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time.

Application of more than recommended quantities of irrigation water per acre may result in decreased product performance.

Do not apply when wind speed favors drift beyond the area intended for treatment, when system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product cannot be flushed and must be dismantled and drained. In a center pivot system, block the nozzle set nearest the well/pivot/injection unit to prevent spray being applied to this area.

Where sprinkler patterns do not overlap sufficiently, unacceptable disease control may result.

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

THIOPHANATE METHYL 85 EG may be applied in conjunction with chemically neutral liquid fertilizers. Application in conjunction with highly alkaline fertilizers, such as aqueous ammonia, may cause a degradation of the pesticide, resulting in reduced performance and should be avoided.

Check local restrictions and requirements regarding sprinkler irrigation applications, as they may vary from state to state.

SPRAY PREPARATION

Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water. Prepare a suspension of THIOPHANATE METHYL 85 EG in a mix tank. Fill the tank with 1/2 or 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of THIOPHANATE METHYL 85 EG and then the remaining volume of water.

APPLICATION INSTRUCTIONS

Set sprinkler system to deliver 0.1 to 1.25 inches of water per acre. Volumes of water higher than this may reduce efficacy. Start sprinkler and then uniformly inject the suspension of THIOPHANATE METHYL 85 EG into the irrigation water line so as to deliver the desired rate

per acre. The suspension of THIOPHANATE METHYL 85 EG should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing.

NOTE: When treatment with THIOPHANATE METHYL 85 EG has been completed, do not irrigate the treated area for 24 to 48 hours to prevent washing the chemical off the crop.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in the original container in a dry 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, sweep up spillage and dispose of in accordance with the Pesticide Disposal Instructions listed below.

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: After bag has been emptied, dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, 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 SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT ARYSTA'S ELECTION, THE REPLACEMENT OF THE PRODUCT.

THIOPHANATE METHYL 85EG

ACTIVE INGREDIENT:

Thiophanate-methyl (dimethyl[1,2-phenylene]-bis(iminocarbonothioyl))bis(carbamate)) 85.0%

INERT INGREDIENTS: 15.0%

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 minutesRemove contact lenses, if present, after the first 5 minutes, then continue rinsing eyeCall a poison control center or doctor for treatment advice
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none">Take off contaminated clothingRinse skin immediately with plenty of water for 15-20 minutesCall a poison control center or doctor for treatment advice
IF INHALED	<ul style="list-style-type: none">Move person to fresh airIf person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possibleCall a poison control center or doctor for further treatment advice
IF SWALLOWED	<ul style="list-style-type: none">Call a poison control center or doctor immediately for treatment adviceHave person sip a glass of water if able to swallowDo not induce vomiting unless told to do so by the poison control center or doctorDo not give anything by mouth to an unconscious person
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 Attached Booklet

EPA Reg. No. 66330-327 Manufactured For:
EPA Est. No. 51036-GA-001 ARYSTA LIFESCIENCE NORTH AMERICA, LLC
AD xxxxxx 15401 Weston Parkway, Suite 150
Cary, NC 27513

NET CONTENTS: _____

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

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 apply where runoff is likely to occur. 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.

STORAGE AND DISPOSAL

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

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BASE LABEL