

	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 4581-403	2. EPA Product Manager Mary L. Waller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Topsin M 70WP	PM# 21	
5. Name and Address of Applicant (Include ZIP Code) Cerexagri, Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406 <input type="checkbox"/> Check if this is a new address	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. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application. <input type="checkbox"/> Other - Explain below.
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NOTIFICATION
JUL 26 2003

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

Notification of minor label changes, including adding pests, 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 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.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes" Unit Packaging wgt. No. per container	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes" Package wgt No. per container	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
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* Certification must be submitted

3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) Retail Container	5. Location of Label Directions <input type="checkbox"/> _____
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Timothy M. Formella	Title Manager, Product Registration	Telephone No. (Include Area Code) 610-491-2813
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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.		6. Date Application Received (Stamped)
2. Signature 	3. Title Manager, Product Registration	
4. Typed Name Timothy M. Formella	5. Date July 11, 2003	

3/19



Cerexagri, Inc.
630 Freedom Business Center
Suite 402
King of Prussia, PA 19406
Phone 610 491 2800
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July 11, 2003

VIA: UNITED PARCEL SERVICE

Document Processing Desk (NOTIF)
Ms. Sherada Hobgood
Office of Pesticide Programs (7504C)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

**RE: Notification per PR Notice 98-10
Topsin M 70WP, EPA Reg. No. 4581-403**

Dear Ms. Hobgood:

Cerexagri, Inc. herein submits a registration amendment for Topsin M 70WP (EPA Reg. No. 4581-403) consistent with the notification provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46.

This amendment reflects the following revisions, additions, and corrections to the currently registered label.

- Phomopsis cane and leaf spot has been added to the list of diseases on grapes East of the Rocky Mountains.
- The rate for use on peaches in units of "lb/100 gallons" has been corrected to accurately reflect the conversion from the rate listed in units of "lbs/Acre". Specifically, the rate 1-1 1/2 lbs/Acre is equivalent to 1/3 - 1/2 lb/100 gallons.
- A reference to the Resistance Management Statement located in the Directions for Use section has been added to the use instructions in the "Remarks" box for the crops apples, pears, cucurbits, Eastern grapes, and peanuts.
- The line "Cerexagri does not recommend aerial application..." has been removed from the use instructions on potatoes. We now have data showing aerial applications are efficacious in controlling white mold on potatoes.

Enclosed please find the following materials to support this registration notification request:

1. A completed Application for Pesticide Registration (EPA Form 8570-1)
2. Three (3) copies of the amended label, one with the revisions highlighted

If you have any questions on this submission please call me at 610-491-2813.

Sincerely,
Timothy M. Formella
Timothy M. Formella
Manager, Product Registration

TOPSIN[®] M 70WP
THIOPHANATE-METHYL FUNGICIDE

NOTIFICATION

JUL 26 2003

ACTIVE INGREDIENT:

Thiophanate-methyl (dimethyl [1,2-phenylene)-bis(iminocarbonothioyl)]bis[carbamate])*....70.0%

OTHER INGREDIENTS:.....30.0%

TOTAL.....100.0%

*Also known as dimethyl 4, 4'-o-phenylenebis[3-thioallophanate]

TOPSIN is a registered trademark of Nippon Soda Company, Ltd., and is licensed to NISSO TM LLC, and is covered by one or more of the following U.S. Patents: 3,769,308; 3,856,847; 4,020,095; and 4,029,813.

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

If swallowed:

- 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 by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

If in eyes:

- 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:

- 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:

- 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.

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

EPA Registration No. 4581-403

EPA Establishment No. 66196-CA-1

NET WEIGHT: _____ Pounds (_____ Kgs.)

Sold by:

Cerexagri, Inc.

630 Freedom Business Center, Suite 402

King of Prussia, PA 19406

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

CAUTION

HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN. CAUSES MODERATE EYE IRRITATION. Avoid contact with skin, eyes, or clothing. Avoid breathing dust, vapor, or spray mist.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

WPS Uses: Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard, 40 CFR Part 170, must wear: long-sleeved shirt and long pants, chemical-resistant gloves made from any waterproof material, and shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish.

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not contaminate water when disposing of equipment washwaters.

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 unless otherwise noted on this label for specific crops.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, chemical-resistant gloves made from any waterproof material, shoes plus socks.

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 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: 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.

GENERAL INSTRUCTIONS AND INFORMATION

Apply TOPSIN M 70WP with ground or aerial equipment, using sufficient volume of spray to provide thorough coverage. Add required amount of TOPSIN M 70WP 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. Cerexagri 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.

Use the LBS/ACRE rate for concentrate sprays (less than 400 gallons on apples, less than 300 gallons on stonefruit). Use the LBS/100 GAL rate for dilute ground applications. For aerial applications, use a minimum of 3 gallons/A for row crops, and a minimum of 10 gallons/A for tree crops. Higher spray volume will generally result in better coverage and better disease control.

Use on non-bearing apples, pecans, cherries, and peaches: TOPSIN M 70WP may be used for

control of the leaf diseases listed on the label for these crops during the non-bearing years of new plantings, and on nursery stock. All use directions and limitations must be followed, except for the PHI, which is not applicable. Begin applications as disease is first observed. Tank mixing with a protectant fungicide is strongly recommended for resistance management.

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

For crops without labeled uses of thiophanate-methyl, observe a 30-day plantback restriction.

RESISTANCE MANAGEMENT: To avoid the development of tolerant or resistant strains of fungi, TOPSIN M 70WP should always be tank-mixed with a fungicide of different chemistry, and/or a fungicide of different chemistry should be alternated with TOPSIN M 70WP at each application. CEREXAGRI DOES NOT RECOMMEND THE USE OF PRODUCTS CONTAINING BENOMYL, THIABENDAZOLE, OR OTHER PRODUCTS CONTAINING THIOPHANATE-METHYL IN COMBINATION OR IN ROTATION WITH TOPSIN M 70WP. If after using TOPSIN M 70WP as recommended, the treatment is not effective, a tolerant or resistant strain of fungi may be present. Discontinue the use of TOPSIN M 70WP for at least one season. Do not use products containing benomyl, thiabendazole, or other products containing thiophanate-methyl as substitutes for TOPSIN M 70WP, as they are of similar chemistry and will contribute to the development of resistance. As long as these precautions are followed, TOPSIN M 70WP can be useful for disease control, even if resistant strains are present.

MIXING INSTRUCTIONS

If other materials are to be added to the tank, especially fertilizers high in nitrogen or boron, wait until the TOPSIN M 70WP is fully dissolved before adding them. Once all materials have been added, fill the tank with the remaining volume of water. Maintain continuous agitation at all times, and use the spray suspension as soon as possible.

Crop/ Restrictions	Diseases	Lbs/ Acre	Lb/100 Gal	Remarks/Restrictions
Almonds	Brown Rot Blossom Blight (<i>Monilinia</i>) Scab (<i>Cladosporium</i>)	1 - 2		Apply at pink bud and petal fall. Do not apply more than 3 lbs of product (2.1 lbs a.i.)/A/season.
Apples	Apple Scab (<i>Venturia</i>) Black Pox* (<i>Helminthosporium papulosum</i>)	1 - 1½	¼ - ⅜	Apply at 5 to 10-day intervals from green tip through petal fall; continue at 7 to 14-day intervals in cover sprays.

Crop/ Restrictions	Diseases	Lbs/ Acre	Lb/100 Gal	Remarks/Restrictions
	Flyspeck (Zygophiala) Powdery Mildew (Podosphaera) Sooty Blotch (Gloeodes) Black Rot (Botryosphaeria obtusa) Brooks Fruit Spot (Mycosphaerella) White Rot* (Botryosphaeria dothidia)			Do not apply more than 4 lbs of product (2.8 lbs a.i.)/A/season. Follow resistance management guidelines under Directions for Use. <i>added</i>
Beans All States except California; see below for California directions for use	Gray Mold (Botrytis) White Mold (Sclerotinia sclerotiorum) Anthracnose (Colletotrichum)	1 - 2		Make first application when 10% to 30% of plants have at least one open bloom, and/or conditions are favorable for disease development. Do not apply more than 4 lbs of product (2.8 lbs a.i.)/A/crop cycle. Minimum 7-day spray interval. Pre-harvest interval: 14 days for snap beans and dry beans, 28 days for lima beans.

Crop/ Restrictions	Diseases	Lbs/ Acre	Lb/100 Gal	Remarks/Restrictions
Beans California use only	Gray Mold (Botrytis) White Mold (Sclerotinia sclerotiorum) Anthracnose (Colletotrichum)	1½ - 2 OR 1 - 1½		Apply once at 50% to 70% of full bloom. OR Apply twice with the first application at 10% to 30% of full bloom and a second application at 4 to 7 days later or at peak bloom. Pre-harvest interval: 14 days for snap beans and dry beans, 28 days for lima beans.
Cucurbits (Cucumbers, Melons, Pumpkins, Summer and Winter Squash, and Watermelons)	General Information			Do not apply more than 3 lbs of product (2.1 lbs a.i.)/A/season from any combination of application timings. Follow resistance management guidelines under Directions for Use. <i>added</i>
	Acromonium/ Cephalosporium Hypocotyl Rot	½		Apply in-furrow, on top of the seeds at planting. Do not use less than 10 gallons of water per acre.
	Anthracnose* (Colletotrichum) Gummy Stem Blight* (Didymella) Powdery Mildew (Erysiphe, Sphaerothecia) Target Spot* (Corynespora)	½		Begin applications when plants begin to run or when disease first appears, and repeat at 7-14 day intervals or as needed. For Target Spot, use at 7-day intervals as needed.
	Belly Rots* (Rhizoctonia, Fusarium)	½		Apply in sufficient volume to allow runoff to the soil. Will not control Pythium or Phytophthora.
	Suppression of Vine Decline* (Monosporascus) Charcoal Rot* (Macrophomina)	½		Apply through buried drip irrigation (chemigation) to the root zone. For disease suppression, apply at 14-day intervals, beginning at emergence and continuing to harvest. Applications weekly or biweekly,

Crop/ Restrictions	Diseases	Lbs/ Acre	Lb/100 Gal	Remarks/Restrictions
				beginning 4-6 weeks prior to harvest will also offer suppression, but may not be as effective as a season-long program.
Garlic	Penicillium Clove Rot		1	<p>Completely immerse garlic cloves in suspension for at least 5 minutes.</p> <p>Continuously agitate the solution tank by hydraulic or mechanical means.</p> <p>After treatment, remove cloves from solution and drain over sand.</p> <p>Dry cloves after treatment and prior to planting.</p>
<p>Grapes</p> <p>Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 7 days unless appropriate PPE for early entry is worn.</p>	<p>WEST OF THE ROCKY MOUNTAINS: Bunch Rot (Botrytis) Powdery Mildew (Uncinula)</p>	1 - 1½		<p>Apply at first bloom and repeat 14 days later or as needed if severe disease conditions exist. Make an additional application 3 to 4 weeks before harvest or when sugar begins to build; repeat 14 days later if conditions favorable for disease persist. For Powdery Mildew continue applications through the season. Use in combination with sulfur or in rotation with sulfur and/or DMI fungicides.</p> <p>Do not apply more than 4 lbs of product (2.8 lbs a.i.)/A/season.</p> <p>Pre-harvest interval: 14 days</p>
	<p>EAST OF THE ROCKY MOUNTAINS: Bitter Rot (Melanconium) Black Rot (Guignardia)</p>	¾ - 1½		<p>Apply when foliage first develops and repeat at 14 to 21 day intervals or as needed.</p> <p>Do not apply more than 4 lbs of product (2.8 lbs a.i.)/A/season.</p> <p>Pre-harvest interval: 14 days</p>

Crop/ Restrictions	Diseases	Lbs/ Acre	Lb/100 Gal	Remarks/Restrictions
	Powdery Mildew (<i>Uncinula</i>) Phomopsis <i>added</i> cane and leaf spot (<i>Phomopsis</i>)			Follow resistance management guidelines under Directions for Use. <i>added</i>
Onions* (In furrow)	White Rot (<i>Sclerotium cepivorum</i>)	2 broad- cast		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.
Peanuts	Early Leaf Spot (<i>Cercospora</i>) Late Leaf Spot (<i>Cercosporidium</i>) Rust (<i>Puccinia</i>) Limb Rot (<i>Rhizoctonia</i>) Web Blotch (<i>Ascochyta</i>)	½		Begin applications 35 days after planting or when disease first appears and repeat at 14 to 21-day intervals as needed. Use the 14-day interval under severe disease pressure. Do not apply more than 2 lbs of product (1.4 lbs a.i.)/A/season. Pre-harvest interval: 14 days Follow resistance management guidelines under Directions for Use. <i>added</i>
Pears Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 3 days unless appropriate PPE for early entry is worn.	Pear Scab (<i>Venturia</i>) Sooty Blotch (<i>Gloeodes</i>) Flyspeck (<i>Zygophiala</i>) Powdery Mildew (<i>Podosphaera</i>) Leaf Spot (<i>Fabraea</i>)	1	¼	Apply at 5 to 10-day intervals from green tip through petal fall; continue at 7 to 14-day intervals in the cover sprays. Do not apply more than 4 lbs of product (2.8 lbs a.i.)/A/season. Pre-harvest interval: 1 day Follow resistance management guidelines under Directions for Use. <i>added</i>
Pecans	Brown Spot (<i>Cercospora</i>) Downy Spot (<i>Mycosphaerella</i>)	½ - 1		Begin applications when first leaves are showing and repeat at 3 to 4 week intervals until shuck split. Do not apply after shuck

Crop/ Restrictions	Diseases	Lbs/ Acre	Lb/100 Gal	Remarks/Restrictions
	Liver Spot (Gnomonia) Powdery Mildew (Microsphaera) Scab (Fusicladium) Stem End Blight (Botryosphaeria) Zonate Leaf Spot (Cristulariella)			split. Use the higher rate for trees over 30 feet tall and for aerial applications in Arkansas, Georgia, Louisiana, Mississippi, Oklahoma, and Texas. Do not apply more than 3 lbs of product (2.1 lbs a.i.)/A/season
Pistachios Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 3 days unless appropriate PPE for early entry is worn.	Shoot Blight (Botrytis, Botryosphaeria)	1½ - 2		Apply at bloom. Apply in a minimum of 100 gallons per acre by ground or 20 gallons per acre by air. For aerial application, fly over every row or center. Do not apply more than 2 lbs of product (1.4 lbs a.i.)/A/season.
Potatoes*	White Mold (Sclerotinia sclerotiorum)	1 - 1½		Make first application just prior to row closure. Repeat the application within 7-14 days and at 7-14 day intervals if conditions for disease development are favorable. Thorough coverage of the lower stems and branches is essential for disease control. Do not apply more than 4 lbs of product (2.8 lbs a.i.)/A/season. Pre-harvest interval: 21 days May be tank mixed with other fungicides labeled for Early and Late Blight control.
Soybeans	General Information			Do not make more than 2 applications per year. Do not graze or feed treated vines

recommendation against aerial application removed →

Crop/ Restrictions	Diseases	Lbs/ Acre	Lb/100 Gal	Remarks/Restrictions
	Anthracnose (Colletotrichum) Brown Spot (Septoria) Frogeye Leaf Spot (Cercospora) Pod and Stem Blight (Diaporthe, Phomopsis) Purple Seed Stain (Cercospora)	$\frac{1}{2}$ - 1		or hay to livestock. Apply from full bloom to when pods are $\frac{1}{8}$ " to $\frac{1}{4}$ " in length. Make a second application 14 to 21 days later. Do not make the second application later than 14 days after pods average $\frac{1}{4}$ " in length or when beans form in the pod. Use the high rate under severe disease pressure. FOR SEED BEANS ONLY---For seed quality, make a single application at the high rate (1 lb per acre) when beans form in the pod.
	White Mold (Sclerotinia sp.)	$\frac{3}{4}$ - 1		Make one application at early bloom (R-1 to R-2 stage) followed by a second application 7-14 days later if conditions are favorable for continued disease pressure. Use a minimum of 5 gallons water by air.
	Aerial Blight (suppression)	1		Make initial application when disease threatens and repeat 14-21 days later if needed.
<u>Stone Fruit</u>	General Information		Follow resistance management guidelines under Directions for Use. Do not apply more than 4 lbs of product (2.8 lbs a.i.)/A/season. Pre-harvest interval: 1 day	
- Apricots	Brown Rot Blossom Blight Fruit Brown Rot (Monilinia)	1 - $1\frac{1}{2}$ (in CA use $1\frac{1}{2}$)	$\frac{1}{2}$	Apply at early bloom (red bud). Make a second application at full bloom. In addition, for Fruit Brown Rot, apply 1 or 2 sprays starting 3 weeks before harvest. If needed under severe disease pressure,

Crop/ Restrictions	Diseases	Lbs/ Acre	Lb/100 Gal	Remarks/Restrictions
				apply additional sprays at 10 to 14-day intervals between full bloom and final pre-harvest sprays.
- Cherries	Brown Rot Blossom Blight Fruit Brown Rot (Monilinia)	1 - 1½ (in CA use 1½)	½	Apply at early bloom (early popcorn). Make a second application at full bloom. In addition, for Fruit Brown Rot, 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.
	Cherry Leaf Spot (Coccomyces)	1⅛ - 1½	⅜ - ½	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 (Podosphaera, Sphaerotheca)	1 - 1½ (in CA use 1½) PLUS 1⅛ - 1½	½ PLUS ⅜ - ½	Apply at early bloom (early popcorn). Make a second application at full bloom. PLUS Apply at shuck fall and first cover.
- Nectarines	Brown Rot Blossom Blight Fruit Brown Rot (Monilinia)	1 - 1½ (in CA use 1½)	½	Apply at early bloom (pink bud). Make a second application at full bloom if conditions favor disease development. In addition, for Fruit Brown Rot, 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.

Crop/ Restrictions	Diseases	Lbs/ Acre	Lb/100 Gal	Remarks/Restrictions
- Peaches	Brown Rot Blossom Blight Fruit Brown Rot (Monilinia)	1 - 1½ (in CA use 1½)	3/8 - 1/2 <i>corrected</i>	Apply at early bloom (pink bud). Make a second application at full bloom if conditions favor disease development. In addition, for Fruit Brown Rot, 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 (Cladosporium)	1 - 1½ (in CA use 1½) PLUS 1 1/8 - 1 1/2	1/2 - 1/2 <i>corrected</i> PLUS 3/8 - 1/2	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.
- Plums - and Prunes	Brown Rot Blossom Blight Fruit Brown Rot (Monilinia)	1 - 1½ (in CA use 1½)	1/2	Apply at early bloom (green tip). Make a second application at full bloom. In addition, for Fruit Brown Rot, 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 (Dibotryon)	1 - 1½ (in CA use 1½)	1/2	Apply at pre-bloom, petal fall, and at first, second, and third cover sprays at 10 to 14-day intervals.
	Leaf Spot (Coccomyces)	1 - 1½ (in CA use 1½)	1/2	Apply at petal fall, shuck split, and at first, second, and third cover sprays at 10 to 14-day intervals and 1 spray 14 to 21

Crop/ Restrictions	Diseases	Lbs/ Acre	Lb/100 Gal	Remarks/Restrictions
				days after harvest.
Straw- berries	Fruit Rot (Botrytis) Leaf Blight (Dendrophoma) Leaf Scorch (Diplocarpon) Powdery Mildew	¼ - 1		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 4 lbs of product (2.8 lbs a.i.)/A/season. Pre-harvest interval: 1 day
Sugar Beets	Cercospora Leaf Spot (Cercospora)	½ - 1 (in CA use ½)		Apply when conditions become favorable for disease development before the disease appears and follow with a non-benzimidazole fungicide within 14 days of application or as needed. Do not apply more than 3 lbs of product (2.1 lbs a.i.)/A/season. Follow resistance management guidelines under Directions for Use. Pre-harvest interval: 21 days
	Powdery Mildew* (Erysiphe)	½ - 1		Apply as soon as disease symptoms appear and repeat at 14-day intervals or as needed. Do not apply more than 3 lbs of product (2.1 lbs a.i.)/A/season. Follow resistance management guidelines under Directions for Use. Pre-harvest interval: 21 days
Triticale and Fall-seeded Wheat For this use in Idaho, Oregon, and	Foot Rot, Strawbreaker, Eye Spot (Pseudocercosporell a)	1		Apply TOPSIN M 70WP at the rate indicated in a single application by air or ground after tillering but before stem elongation has begun. Use sufficient water to obtain thorough coverage. Do not make

Crop/ Restrictions	Diseases	Lbs/ Acre	Lb/100 Gal	Remarks/Restrictions
Washington ONLY				more than one application per season. Do not apply more than 1 lb of product (0.7 lb a.i./A/season. Do not cut for hay within 90 days of application. Do not allow livestock to graze in treated areas before harvest.

* Not for this use in California

NOTE: Dilute sprays are not to exceed maximum rate per acre.

DIRECTIONS FOR USE ON CONIFERS (Not for this use in California)

CROP	DISEASE	LIMIT/ ACRE/ CROP	RATE, MINIMUM GALLONAGE	REMARKS
Conifers (Pine) Austrian Red Scots Christmas Trees	Tip Blight (Diplodia)	48 oz. (3 lb.)	16 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 (Phaenocarpa) Rhabdocline Needle Cast	80 oz. (5 lb.)	16 oz./A 50 gal/A	Apply initially in early May. Repeat at 4-week intervals.
<ul style="list-style-type: none"> - 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 (Scirrhia)	N/A	1 oz./9.5 oz. dry Kaolinite clay for seedling roots	Wet seedling roots in clean water, then apply TOPSIN M/Kaolinite mixture to wet roots.

				Do not apply mixture to seedling foliage.
Loblolly Longleaf Slash	Fusarium and Rhizoctonia Root Rot	N/A	2 oz./ 50 oz. Kaolinite clay, plus enough water to make a slurry	Thoroughly cover seedling roots with TOPSIN M/Kaolinite slurry. Do not apply mixture to seedling foliage.
<p>- During treatment, avoid excessive drying of roots or exposure to temperatures greater than 90°F or less than 32°F.</p> <p>- TOPSIN M does not control Pythium or Phytophthora.</p>				

**DIRECTIONS FOR USE THROUGH CHEMIGATION SYSTEMS
NOT FOR THIS USE IN CALIFORNIA**

GENERAL INSTRUCTIONS

Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, 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 a 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 that 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.

APPLICATION INSTRUCTIONS

Observe the requirements in the System Requirements section above.

Apply TOPSIN M 70WP only through systems containing anti-syphon and check valves designed to prevent water source contamination or overflow of the mix tank and containing interlocking controls between the metering device and the water pump to insure simultaneous shut-off.

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

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

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

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

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

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

TOPSIN M 70WP 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.

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 TOPSIN M 70WP 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 TOPSIN M 70WP and then the remaining volume of water.

Sprinkler Irrigation - Notes

Observe all System Requirements and Application Instructions above.

Set sprinkler system to deliver 0.1 to 1.25 inches of water per acre. Volumes of water higher than

19/19

this may reduce efficacy. Start sprinkler and then uniformly inject the suspension of TOPSIN M 70WP into the irrigation water line so as to deliver the desired rate per acre. The suspension of TOPSIN M 70WP should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing. When treatment with TOPSIN M 70WP has been completed, do not irrigate the treated area for 24 to 48 hours to prevent washing the chemical off the crop.

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

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

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

Drip (Mini-Micro Sprinklers, Strip Tubing, Trickle) Irrigation - Notes

Observe all System Requirements and Application Instructions above.

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