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REV 10 1992

Ms. Rebecca A. Clemmer
 Atochem North America, Inc.
 Agrichemicals Division
 Room 619, Three Parkway
 Philadelphia, PA 19102

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Dear Ms. Clemmer:

Subject: Amended Labeling - Removal of Post-Harvest Uses
 Topsin M 85 WDG, EPA Registration No. 4581-372
 Topsin M 4.5 F, EPA Registration No. 4581-352
 Topsin M 70 W, EPA Registration No. 4581-322✓
 Your Submission Dated October 9, 1991
 Federal Register Notice Dated Wednesday, May 6, 1992

The amendments referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable, provided that you:

1. Make the labeling change listed below before you release the products for shipment bearing the amended labeling:

- Under Environmental Hazards, change the statement regarding direct application to water and or wetlands to "Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark."

2. Submit one (1) copy of your final printed labeling for each of the products referred to above before you release the products for shipment.

Please note that the Agency is able to officially accept these deleted uses since the end of the 90-day public comment period was August 4, 1992 and no public comments were received.

Sincerely yours,

Susan T. Lewis
 Product Manager (21)
 Fungicide-Herbicide Branch
 Registration Division (H7505C)

		CONCURRENCES					
SYMBOL	Enclosures						
SURNAME	H7505C:J.Fairfax-4581-3728-11/5/92-11/13/92						
DATE							

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Act as
Fertilizer

4581-322

TOPSIN[®]

THIOPHANATE-METHYL FUNGICIDE 70% Wettable Powder

ACTIVE INGREDIENT:

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

70%

INERT INGREDIENTS:

30%

TOTAL:

100%

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

TOPSIN is a registered trademark of Nippon Soda Company, Ltd. and is licensed to Atochem North America, 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

HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

HARMFUL IF SWALLOWED, ABSORBED THROUGH SKIN, OR INHALED. CAUSES MODERATE EYE IRRITATION.

IF SWALLOWED, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Call a physician. Never give anything by mouth to an unconscious person.

IF IN EYES, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

IF ON SKIN, immediately flush skin with plenty of water. Get medical attention if irritation persists.

Avoid contact with skin, eyes, or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply directly to water or wetlands. Do not apply where runoff is likely to occur. Do not contaminate water when disposing of equipment washwater.



EPA Registration No. 4581-322

EPA Establishment No. 39573-TX-1

Net Weight: _____ Pounds (_____ Kgs)

Sold by:

AGCHEM DIVISION—ATO CHEM NORTH AMERICA

Philadelphia, Pa. 19102

GENERAL INFORMATION

Apply TOPSIN M with ground or aerial equipment, using sufficient volume of spray to provide thorough coverage. Add required amount of TOPSIN M 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. Do not tank mix 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.

IMPORTANT: If, after using TOPSIN M as recommended, treatment is not effective, a tolerant strain of fungi may be present. Consult your State Agricultural Experiment Station or your State Agricultural Extension Service for advice on the prompt use of some other suitable fungicide.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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

Do not enter treated areas without protective clothing until spray has dried. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, such warnings shall be given in a language customarily understood by the workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by the workers. Written warnings must include the following information: "CAUTION: Area treated with TOPSIN M 70W Thiofanate-methyl Fungicide on (date of application)."

CROP	DISEASES	LBS ACRE	LBS-100 GAL	REMARKS
Almonds	Brown Rot Blossom Blight (Monilia sp.)	1 1/2-2		Apply at early pink bud and early petal fall.
Apples (pre-harvest)	Apple Scab (Venturia sp.) Bitter Rot (Glomerella sp.) Physcia (Schizothecium sp.) Powdery Mildew (Podosphaera sp.) Sooty Blotch (Gloeodes sp.) Black Rot (Physalospora sp.)	1-1 1/2	1/2-3/4	Apply at 5- to 10-day intervals from green tip through petal fall; continue at 7- to 14-day intervals in cover sprays. NOTE: For control of apple diseases in the Southeastern States of Florida, Georgia, South Carolina, North Carolina and Alabama, use 3 to 4 pounds TOPSIN M per acre.
Beans	Gray Mold (Botrytis sp.) White Mold (Sclerotinia sp.)	1 1/2-2 OR 1 1/2	1 1/2 R 3/4-1	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. Do not apply to snap or dry beans within 14 days of harvest or to lima beans within 28 days of harvest.
Celery	Early Blight (Cercospora sp.) Late Blight (Septoria sp.)	1/2		Apply to the base of the plants on a 14- to 21-day schedule beginning about 2 weeks after transplanting. OR Apply as a foliar spray every 7 to 14 days beginning about 2 weeks after transplanting. Do not apply within 7 days of harvest. Do not make more than 4 applications per season.
Cucurbits (Cucumbers, melons, pumpkins, summer and winter squash) Note for this use in California:	Anthrachnose Gummy Stem Blight Powdery Mildew Target Spot (Cucumbers)	1 1/2-2 for ground applications OR 1/2 for aerial applications		Begin applications when plants begin to run or when disease first appears and repeat at 7- to 14-day intervals as needed. For Target Spot, use 7-day intervals as needed.
Onions	White Rot (Sclerotium sp.)	1 1/2-4 @ 1000 ft. of row (12 inch row spacing)		Apply TOPSIN M by spraying 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	Leaf Spot (Cercospora sp.)	1/2		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 within 14 days of harvest.
Pecans	Brown Spot (Cercospora sp.) Downy Spot (Mycosphaerella sp.) Powdery Mildew (Microspora sp.) Scab (Eucalyptum sp.)	1/2-1		Use the higher rate for trees over 30 feet tall and for aerial applications in Arkansas, Louisiana, Mississippi, Oklahoma, and Texas. Begin applications when first leaves are showing and repeat at 3- to 4 week intervals until shuck split. Do not apply after shuck split.
Soybeans	Anthrachnose (Colletotrichum sp.) Brown Spot (Septoria sp.) Frogeye Leaf Spot (Cercospora sp.) Pod and Stem Blight (Diaporthe sp. and the imperfect stage Phoma sp.) Purple Seed Stem (Cercospora sp.)	1/2-1		Apply from full bloom to when pods are 1/4" to 1/2" in length. Make a second application 14 to 21 days later. Do not make the second application later than 14 days after pods average 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 when beans form in the pod. Do not make more than 2 applications per year. Do not graze or feed treated vines or hay to livestock.

CROP	DISEASES	LBS ACRE	LBS-100 GAL	REMARKS
Stone Fruits (pre-harvest) —Apricots	Brown Rot Blossom Blight (Monilia sp.) Fruit Brown Rot (Monilia sp.)	1 1/2	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, apply additional sprays at 10- to 14-day intervals between full bloom and final pre-harvest sprays. Do not apply within 1 day of harvest.
—Cherries	Brown Rot Blossom Blight (Monilia sp.) Fruit Brown Rot (Monilia sp.) Cherry Leaf Spot (Coccomyces sp.) Powdery Mildew (Podosphaera sp. and Sphaerotheca sp.)	1 1/2 1 1/4-1 1/2	1/2 3/4-1 1/2 PLUS 1 1/4-1 1/2	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 spray. Do not apply within 1 day of harvest. 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. Do not apply within 1 day of harvest. Apply at early bloom (early popcorn). Make a second application at full bloom. PLUS Apply at shuck fall and first cover. Do not apply within 1 day of harvest.
—Nectarines	Brown Rot Blossom Blight (Monilia sp.) Fruit Brown Rot (Monilia sp.)	1 1/2	1/2	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 spray. Do not apply within 1 day of harvest.
—Peaches	Brown Rot Blossom Blight (Monilia sp.) Fruit Brown Rot (Monilia sp.)	1 1/2-2 1/4	1/2-3/4	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 spray. Do not apply within 1 day of harvest.
	Peach Scab (Cladosporium sp.)	1 1/2-2 1/4 PLUS 1 1/4-1 1/2	1/2-3/4 PLUS 3/4-1 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. Do not apply within 1 day of harvest.
—Plums and Prunes	Brown Rot Blossom Blight (Monilia sp.) Fruit Brown Rot (Monilia sp.)	1 1/2	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 spray. Do not apply within 1 day of harvest.
	Black Knot (Dibolium sp.)	1 1/2	1/2	Apply at pre bloom, petal fall, and at first, second, and third cover sprays at 10- to 14-day intervals. Do not apply within 1 day of harvest.
	Leaf Spot (Coccomyces sp.)	1 1/2	1/2	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. Do not apply within 1 day of harvest.
Strawberries	Fruit Rot (Botrytis sp.) Leaf Blight (Dendrothrips sp.) Leaf Scorch (Diplocarpum sp.)	3/4-1		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 within 1 day of harvest.
Sugar Beets	Leaf Spot (Cercospora sp.)	3/4-1 1/2		Begin applications when disease first appears (Beet 2's) and repeat at 14- to 21-day intervals as needed. Do not apply within 21 days of harvest.
Sugar Cane (Hawaii only)	Pineapple Disease (Thielaviopsis sp. or Ceratocystis sp.)		1/2 (1,600) 1/2 (1,200)	Apply to full seed pieces as a cold dip or hot dip. Cold Dip—immerse seed pieces to provide thorough coverage, remove and allow to drain. Hot Dip—maintain temperature of dip at 52°C and soak seed pieces for 20 minutes, remove and allow to drain. Do not use treated seed pieces for food feed or fodder. Do not graze or feed treated forage to livestock.

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FOR USE ON FALL-SEEDED WHEAT IN IDAHO, OREGON AND WASHINGTON ONLY
(Not for use in California)

CROP	DISEASES	LBS ACRE	LBS 100 GAL	REMARKS
Fall Seeded Wheat	Pseudocercospora sp (Foot Rot) Stem Borer Eye Spot	1 lb (0.7 lb a.i.)		Apply TOPSIN M at the rate indicated in a single application by air or ground after wheat is killed but before stem elongation has begun. Use sufficient water to obtain thorough coverage. Do not make more than one application per season. Do not cut for hay within 90 days of application. Do not allow livestock to graze in treated areas before harvest.

TANK MIX FOR USE ON APPLES
(Not for use in California)

DISEASES	LBS ACRE	LBS 100 GAL	REMARKS
Scab (Venturia sp.) Bitter Rot (Glomerella sp.) Black Rot (Physalospora sp.) Physcia (Schrothium sp.) Powdery Mildew (Podosphaera sp.) Sooty Blotch (Gleasonia sp.)	TOPSIN M 1/2-1/4 + Polyram BOWP 3-4	TOPSIN M 1/2-1/4 + Polyram BOWP 1/2-1	Begin applications at green tip and repeat applications as needed through the cover sprays. Do not apply within 30 days of harvest. Do not graze livestock in treated areas.

Observe the more restrictive cautions and limitations on labeling of products used in mixtures.
A : rate is based on the amount of active ingredient.

TANK MIX FOR USE ON APPLES
(Not for use in California)

DISEASES	LBS ACRE	LBS 100 GAL	REMARKS
Scab (Venturia sp.) Bitter Rot (Glomerella sp.) Black Rot (Physalospora sp.) Physcia (Schrothium sp.) Powdery Mildew (Podosphaera sp.) Sooty Blotch (Gleasonia sp.)	TOPSIN M 1/2-1/4 + Sulfur 12-30 lbs a.i.	TOPSIN M 1/2-1/4 + Sulfur 3-7 1/2 lbs a.i.	Begin applications at green tip and repeat at petal bud and at 7- to 14-day intervals or as needed through the cover sprays. Use the higher rates and closer interval under severe disease conditions.

Observe the more restrictive cautions and limitations on labeling of products used in mixtures.
A : rate is based on the amount of active ingredient.

TANK MIX FOR USE ON STONE FRUITS
(Apricots, Cherries, Nectarines, Peaches, Plums and Prunes)
(Not for use in California)

DISEASES	LBS ACRE	LBS 100 GAL	REMARKS
Brown Rot Blossom Blight (Monilia sp.) Fruit Brown Rot (Monilia sp.) Powdery Mildew (Podosphaera sp. and Sphaerotheca sp.) Leaf Spot (Coccomyces sp.) Shot-hole (Coryneum sp.) Rust (Trometichia sp.) Peach Canker Peach Scab (Cladosporium sp.) Black Knot (Dibotryon sp.)	TOPSIN M 1/2-1/4 + Sulfur 12-18 lbs a.i.	TOPSIN M 1/2-1/4 + Sulfur 4-6 lbs a.i.	BROWN ROT BLOSSOM BLIGHT —Make application at early bloom & again at full bloom. FRUIT BROWN ROT —In addition to bloom sprays 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. POWDERY MILDEW —In addition to bloom sprays make applications at shuck fall and first cover. LEAF SPOT —Make application when leaves first unfold and first second and third cover at 10 to 14-day intervals and 1 spray 14 to 21 days after harvest. SHOT-HOLE RUST PEACH CANKER & PEACH SCAB —Apply at pink bloom, petal fall, shuck split, shuck fall and at 10 to 14 day intervals as long as necessary. BLACK KNOT —Apply at first, second and third cover sprays at 10 to 14 day intervals. Do not apply within 1 day of harvest.

Observe the more restrictive cautions and limitations on labeling of products used in mixtures.
A : rate is based on the amount of active ingredient.

TANK MIX FOR USE ON STONE FRUITS
(Apricots, Cherries, Nectarines, Peaches, Plums and Prunes)
(Not for use in California)

DISEASES	LBS ACRE	LBS 100 GAL	REMARKS
Brown Rot Blossom Blight (Monilia sp.) Fruit Brown Rot (Monilia sp.) Peach Scab (Cladosporium sp.) Powdery Mildew (Podosphaera sp. and Sphaerotheca sp.) Cherry Leaf Spot (Coccomyces sp.) Russet Scab Black Knot (Dibotryon sp.)	TOPSIN M 1/2-1/4 + Captan BOWP 3-6 OR Captan BOWP 2-3%	TOPSIN M 1/2-1/4 + Captan BOWP 1-2 OR Captan BOWP 1/2-1/4	BROWN ROT BLOSSOM BLIGHT —Apply at early bloom stages before infection occurs (apricots—red bud cherries—early popcorn nectarines & peaches—pink bud plums & prunes—green tip). If blossoming is prolonged or conditions favorable for disease persist, make a second application 14 days later. FRUIT BROWN ROT —After blossom blight sprays make a preharvest application any time from 3 weeks before harvest to 1 day before harvest. Make a second application if conditions favorable for disease persist or harvest is prolonged. PEACH SCAB, POWDERY MILDEW —Use same schedule as for Brown Rot Blossom Blight and continue at 10- to 14-day intervals to 1 day before harvest. Make an additional application 2 to 3 weeks after harvest. CHERRY LEAF SPOT —Use same schedule as for Brown Rot Blossom Blight and continue at 10- to 14-day intervals to 1 day before harvest. Make an additional application 2 to 3 weeks after harvest. RUSSET SCAB (PLUMS & PRUNES) —Use same schedule as for Brown Rot Blossom Blight include full coverage spray at full bloom. BLACK KNOT —Apply at first, second, and third cover sprays at 10- to 14 day intervals. Do not apply within 1 day of harvest. NOTE This tank mixture will not control bacterial blight, but will supplement a dormant program for peach leaf curl and shot hole (Coryneum blight) refer to other fungicide labels for dormant period control information. Do not use this tank mixture with spray oils.

Observe the more restrictive cautions and limitations on labeling of products used in mixtures.

TANK MIX FOR USE ON STONE FRUITS
(Apricots, Cherries, Nectarines and Peaches)
(Not for use in California)

DISEASES	CROP	LBS ACRE	LBS 100 GAL	REMARKS
Brown Rot Blossom Blight (Monilia sp.) Fruit Brown Rot (Monilia sp.) Powdery Mildew (Podosphaera sp. and Sphaerotheca sp.) Cherry Leaf Spot (Coccomyces sp.) Shot-hole (Coryneum sp.) Rust (Trometichia sp.) Peach Canker Peach Scab (Cladosporium sp.)	Apricots and Nectarines	TOPSIN M 1/2-1/4 + Ziram 3-4 lbs a.i.	TOPSIN M 1/2-1/4 + Ziram 1-1 1/2 lbs a.i.	BROWN ROT BLOSSOM BLIGHT —Make application at early bloom and again at full bloom. FRUIT BROWN ROT —In addition to bloom sprays 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. POWDERY MILDEW —In addition to bloom sprays make applications at shuck fall and first cover. CHERRY LEAF SPOT —Make application when leaves first unfold and first second and third cover at 10 to 14 day intervals and 1 spray 14 to 21 days after harvest. SHOT-HOLE RUST PEACH CANKER & PEACH SCAB —Apply at pink bloom, petal fall, shuck split, shuck fall and at 10 to 14 day intervals as long as necessary for apricots. Do not apply after early cover periods. For cherries do not apply within 7 days of harvest. For nectarines & peaches last application should be made no later than at petal fall.
	Cherries	TOPSIN M 1/2-1/4 + Ziram 3-4 lbs a.i.	TOPSIN M 1/2-1/4 + Ziram 1-1 1/2 lbs a.i.	
	Peaches	TOPSIN M 1/2-1/4 + Ziram 3-4 1/2 lbs a.i.	TOPSIN M 1/2-1/4 + Ziram 1-1 1/2 lbs a.i.	

Observe the more restrictive cautions and limitations on labeling of products used in mixtures.
A : rate is based on the amount of active ingredient.

TANK MIX FOR USE ON PEANUTS
(Not for use in California)

DISEASES	LBS ACRE	REMARKS
Leaf Spot (Cercospora sp.) Rust (Puccinia sp.) Web Blotch (Ascochyta sp.)	TOPSIN M 1/2 + Mancozeb BOWP 1-2	Begin application 35 to 40 days after planting or when disease first appears. Repeat at 10 to 14 day intervals. For Cercospora leaf spot at 10 to 14 days, for Rust at 7 to 10 days and for Ascochyta web blotch at 7 to 14 days. Spray oil may be added at the rate of 1 quart to 1 gallon per acre. Do not graze or feed treated vines, hay or hulls to livestock. Do not apply within 14 days of harvest.

Observe the more restrictive cautions and limitations on labeling of products used in mixtures.

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CHEMIGATION NOT FOR THIS USE IN CALIFORNIA GENERAL INSTRUCTIONS

Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end row, side (wheel) roll, traveler, big gun, solid set, or hand move. 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:

(1) In the requirements in the System Requirements section, above:

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

Apply TOPSIN M 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; 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 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 clear water.

Prepare a suspension of TOPSIN M in a mix tank. Fill the tank with 1/2 or 3/4 the desired amount of water. Use mechanical or hydraulic agitation. Slowly add the required amount of TOPSIN M and then the remaining amount 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 TOPSIN M into the irrigation water line so as to deliver the desired rate per acre. The suspension of TOPSIN M 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 TOPSIN M 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.

Storage Instructions: 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 Pesticide Disposal Instructions listed below.

Pesticide Disposal Instructions: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal Instructions: 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

Atochem North America warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use, subject to the risks referred to therein. ATOCHEM MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL ATOCHEM OR SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, BUSINESS REPUTATION OR CUSTOMERS, LABOR COST, OR OTHER EXPENSES INCURRED IN PLANTING OR HARVESTING.

Atochem and seller offer this product and the buyer and user accept it subject to the foregoing conditions of sale and warranty which may be varied only by agreement in writing signed by a duly authorized representative of Atochem.

Made in Japan

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Printed in U.S.A.

RECEIVED FOR TOPSIN