

ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460	EPA REGISTRATION NO. 4561-372	DATE OF ISSUANCE 3-22-90
	TERM OF ISSUANCE Conditional	
	NAME OF PESTICIDE PRODUCT Topsin M 85 WDG	

OFFICE OF PESTICIDE: ☒ REGISTRATION
☐ REREGISTRATION
 (Under the Federal Insecticide, Fungicide,
 and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Jennwalt Corporation
 Agricultural Division
 Three Parkway
 Philadelphia, PA 19102

Cite-all

NOTE: Changes in labeling formula 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 subject always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an endorsement or approval of this product by this 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.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment:
 - a. Add the phrase "EPA Registration No. 4561-372."
 - b. In the ingredient declaration the percentage of inert ingredients must be changed to 15%.
 - c. Delete the tank mix directions with mancozeb and maneb for use on apples and with maneb for use on stonefruit. The basic suppliers have voluntarily cancelled these uses of mancozeb and maneb.
3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-72 enclosure for a further description of final printed labeling.

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ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

Susan Heit

DATE

3-22-90

Form 8570-4 (Rev. 5-76)

PREVIOUS EDITION MAY BE USED UNTIL SUPPLY IS EXHAUSTED.

55178:1:CR-31:Stone:R-13:KENCO:03/12/90:04/10/90:CL:VO:SW:JH:CL

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Susan Lewis
Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (N7505C)

Enclosures

NOT FOR USE IN CALIFORNIA

TOPSIN® M 85WDG

Thiophanate-Methyl Fungicide
85% Water Dispersible Granule

ACTIVE INGREDIENT:

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

INERT INGREDIENTS:

TOTAL:

85%

25%

100%

*Also known as dimethyl 4,4'-O-phenylenebis[3-thiophanate]

*TOPSIN is a registered trademark of Nippon Soda Company, Ltd., and is licensed to Penwalt Corporation and is covered by one or more of the following U.S. Patents: 3,769,308; 3,856,847; 4,020,085; and 4,029,813.

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

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.

See brochure attached to container for other precautionary statements, Directions for Use, and Chemigation Instructions.



EPA Reg. No. 4581-
EPA Establishment No. 4581-TX-1

NET WEIGHT: 3.3 Lbs/1.5 Kg

Sold by:

AGCHEM DIVISION—PENNWALT CORPORATION
Philadelphia, PA 19102

ACCEPTED
with COMMENTS
in EPA Letter Dated:

5-C310N-01 2/89 (B9)

1989 6.1.1000

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

4581-372

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

HARMFUL IF SWALLOWED, ABSORBED THROUGH SKIN, OR INHALED. CAUSES MODERATE EYE IRRITATION. Avoid contact with skin, eyes, and 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 washwaters.

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 the 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

Pennwalt Corporation 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. PENNWALT MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL PENNWALT 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.

Pennwalt 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 Pennwalt.

Made and Printed in U.S.A.

5-Z310N2-01 2/89 (B9)

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DISK 200 P12, FILE 295, FONT 3,4,5,11,12,13,26

D.S. GRAPHICS

JOB 652

Pennwalt/Topsin

TOPSIN® M 85WD

EPA REGISTRATION NO. 4581-372

GENERAL INFORMATION AND DIRECTIONS FOR USE

Apply TOPSIN M with ground or aerial equipment, using sufficient volume of spray to provide 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 suspension. Do not tank mix with highly alkaline pesticides, such as Bordeaux mixture or lime sulfur. Compatibility with other pesticides is implied. Use the higher rate under conditions of severe infestation. Also, see local State Extension Service recommendations for application schedules.

IMPORTANT: If, after using TOPSIN M as recommended, treatment is not effective, a tolerant variety 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 instructions are followed.

Do not enter treated areas without protective clothing until spray has dried. Because certain states have restrictive reentry intervals for various crops treated with this product, consult your State Agricultural Extension Service for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in a field to be treated with this product. When oral warnings are given, such warnings shall be given continuously until the workers are given written warnings. Written warnings must include the following: "CAUTION: Area treated with TOPSIN M 85WD (Thiophanate-methyl) Fungicide on (date of application)." (date of application)

CROP	DISEASES	LABEL RATE	REMARKS
Almonds	Brown Rot (Blossom Blight) (Blackhole sp.)	1.2-1.6	Apply at early pink bud and early petal fall.
Apples (pre-harvest)	Apple Scab (Venturia sp.) Bitter Rot (Blumeriella sp.) Physalospora (Blumeriella sp.) Powdery Mildew (Podosphaera sp.) Sooty Blotch (Blumeriella sp.) Black Rot (Podosphaera sp.)	0.8-1.2	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 2.5-3.3 pounds TOPSIN M per acre.
Apples (post-harvest)	Postharvest Fruit Rot (Botrytis sp.) (Podosphaera sp.) (Podosphaera sp.)		Using 0.4-0.6 lbs. per 100 lbs. of fruit or spray fruit thoroughly as often as possible after harvest. Do not dip for more than 2 minutes. Double the concentration of TOPSIN M when incorporated in wax and applied in flow-through sprays to the fruit.
Beans	Gray Mold (Botrytis sp.) White Mold (Sclerotinia sp.)	1.2-1.6 OR 0.8-1.2	Apply until 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 wet or dry beans within 14 days of harvest or to late beans within 28 days of harvest.
Citrus	Early Blight (Corynespora sp.) Late Blight (Corynespora sp.)	0.4	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 in growing about 2 weeks after transplanting. Do not apply within 7 days of harvest. Do not make more than 4 applications per year.
Cucurbits (Cucumbers, melons, pumpkins, squash and watermelons)	Anthracnose Cucurbit Stem Girdler Powdery Mildew Target Spot (Cucurbit)	0.2-0.4 for ground applications OR 0.4 for aerial applications	Begin applications when plants begin to rot 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 (Botrytis sp.)	0.27-0.4 1000 g of raw	Apply TOPSIN M by spraying directly into the open furrow at the time of planting seed, sets or bulbs. Dig for this use through any type of organic material.

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

DISEASES	LEBACRE	REMARKS
Brown Rot Blossom Blight (Blasphemia sp.) Fruit Brown Rot (Blasphemia sp.) Powdery Mildew (Phytophthora sp. and Sphaerotheca sp.) Leaf Spot (Blasphemia sp.) Shot-hole (Coryliophora sp.) Rust (Uromyces sp.) Peach Canker (Corticium sp.) Peach Scab (Cladosporium sp.) Black Knot (Botryosphaeria sp.)	TOPSIN M 0.6-1.2 + Sulfur 12-18 lbs 0.1	BROWN ROT BLOSSOM BLIGHT —Make application at early bloom & again at full bloom. FRUIT BROWN ROT —In addition to blossom 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 first preharvest sprays. POWDERY MILDEW —In addition to blossom sprays, make applications of shoot tip 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 peak bloom, post full shoot tip, shoot full, 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 conditions and limitations on labeling of products used in mixtures.

* A.I. rate is based on the amount of active ingredient.

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

DISEASES	GROUP	LEBACRE	REMARKS
Brown Rot Blossom Blight (Blasphemia sp.) Fruit Brown Rot (Blasphemia sp.) Powdery Mildew (Phytophthora sp. and Sphaerotheca sp.) Cherry Leaf Spot (Corticium sp.) Shot-hole (Coryliophora sp.) Rust (Uromyces sp.) Peach Canker (Corticium sp.) Peach Scab (Cladosporium sp.)	Apricots and Nectarines	TOPSIN M 0.6-1.2 + Zinc 3-4 1/2 lbs 0.1	BROWN ROT BLOSSOM BLIGHT —Make application at early bloom and again at full bloom. FRUIT BROWN ROT —In addition to blossom 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 first preharvest sprays. POWDERY MILDEW —In addition to blossom sprays, make applications of shoot tip and first cover. CHERRY LEAF SPOT —Make application when leaves first unfold & first, second and third cover at 10- to 14-day intervals and 1 spray 14-21 days after harvest. SHOT-HOLE, RUST, PEACH CANKER & PEACH SCAB —Apply at peak bloom, post full shoot tip, shoot full, and at 10- to 14-day intervals as long as necessary. For apricots, do not apply after early olive periods. For cherries, do not apply within 7 days of harvest. For nectarines & peaches, last application should be made no later than at post full.
	Cherries	TOPSIN M 0.6-1.2 + Zinc 3 1/2 lbs 0.1	
	Peaches	TOPSIN M 0.6-1.2 + Zinc 3-4 1/2 lbs 0.1	

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* A.I. rate is based on the amount of active ingredient.

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

DISEASES	LEBACRE	REMARKS
Scab (Venturia sp.) Bitter Rot (Blasphemia sp.) Black Rot (Phytophthora sp.) Powdery Mildew (Blasphemia sp.) Powdery Mildew (Phytophthora sp.) Sooty Blotch (Blasphemia sp.) Cedar Apple Rust (Gymnosporangium sp.) Sooty Eye Rust (Blasphemia sp.)	TOPSIN M 0.4-0.6 + Mancozeb DWP 0-2 lbs	Begin applications at green tip and repeat at pink bud and at 7- to 14-day intervals or as needed through the cover sprays. Use the higher rates and shorter intervals under severe disease conditions. With Golden Delicious apples, adverse effects on fruit finish and color may result. Use the lower rates of TOPSIN M when finish and color are of primary importance. Do not apply within 30 days of harvest. Do not graze livestock in treated areas.

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

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

DISEASES	LEBACRE	REMARKS
Leaf Spot (Blasphemia sp.) Rust (Phytophthora sp.) Web Blotch (Blasphemia sp.)	TOPSIN M 0.2 + Fenoxan DWP 1.2 OR Mancozeb 0.5-1.0 LB 0.1	Begin application 35 to 40 days after planting or when flowers first appear. Repeat at the following intervals: for Fenoxan last spray at 10 to 14 days, for Rust at 7 to 10 days and for Mancozeb web blotch at 7 to 14 days. Spray may be added at the rate of 1 pint to 1 quart per acre. Do not graze or feed treated crop, hay or bales to livestock. Do not apply within 14 days of harvest.

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

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

DISEASES	LEBACRE	REMARKS
Scab (Venturia sp.) Bitter Rot (Blasphemia sp.) Black Rot (Phytophthora sp.) Powdery Mildew (Blasphemia sp.) Powdery Mildew (Phytophthora sp.) Sooty Blotch (Blasphemia sp.)	TOPSIN M 0.4-0.6 + Mancozeb DWP 3-4 lbs	Begin applications at green tip and repeat at pink bud and at 7- to 14-day intervals or 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 conditions and limitations on labeling of products used in mixtures.

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

DISEASES	LEBACRE	REMARKS
Scab (Venturia sp.) Bitter Rot (Blasphemia sp.) Black Rot (Phytophthora sp.) Powdery Mildew (Blasphemia sp.) Powdery Mildew (Phytophthora sp.) Sooty Blotch (Blasphemia sp.)	TOPSIN M 0.4-0.6 + Sulfur 12-20 lbs 0.1	Begin application, if green tip and repeat at pink bud and at 7- to 14-day intervals or as needed through the cover sprays. Use the higher rates and shorter intervals under severe disease conditions.

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

* A.I. 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	LEBACRE	REMARKS
Brown Rot Blossom Blight (Blasphemia sp.) Fruit Brown Rot (Blasphemia sp.) Peach Scab (Cladosporium sp.) Powdery Mildew (Phytophthora sp. and Sphaerotheca sp.) Cherry Leaf Spot (Corticium sp.) Rust (Uromyces sp.) Black Knot (Botryosphaeria sp.)	TOPSIN M 0.6-0.8 + Caplan DWP 3-6 OR Caplan DWP 7-14	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 between 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 between at 10- to 14-day intervals to 1 day before harvest. Make an additional application 2 to 3 weeks after harvest. RUST, BLACK KNOT —Use same schedule as for Brown Rot Blossom Blight and between at 10- to 14-day intervals to 1 day before harvest. Make an additional application 2 to 3 weeks after harvest. 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 suppress a dormant program for peach leaf curl and shot-hole (Coryliophora blight) when it is combined with other fungicides. It is a contact product; contact information. Do not use this tank mixture with spray oils.

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

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

DISEASES	LEBACRE	REMARKS
Brown Rot Blossom Blight (Blasphemia sp.) Fruit Brown Rot (Blasphemia sp.) Peach Scab (Cladosporium sp.) Powdery Mildew (Phytophthora sp. and Sphaerotheca sp.)	TOPSIN M 1.2 + Mancozeb DWP 0-3	BROWN ROT BLOSSOM BLIGHT —Apply at early bloom stages before infection occurs (apricots—red bud, nectarines & peaches—pink bud). For this application only, TOPSIN M plus Mancozeb DWP may be used in combination with superior type spray oil. 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 an additional application 3 weeks before harvest. PEACH SCAB, POWDERY MILDEW —Use same schedule as for Brown Rot Blossom Blight plus applications at shoot tip, shoot full, and 14 days later. Do not apply within 14 days of harvest. NOTE: This tank mixture will not control bacterial blight, but will suppress a dormant program for peach leaf curl and shot-hole (Coryliophora blight) when it is combined with other fungicides. It is a contact product; contact information.

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

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CHEMIGATION GENERAL INSTRUCTIONS

Apply this product only through sprinkler irrigation systems including center pivot, lateral move, and run side (wheel) roll travelers, 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 75 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.

Do 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 clean water.

Prepare a suspension of TOPSIN M in a mix tank. Fill the tank with 10 or 15% the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of TOPSIN M 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 TOPSIN M into the irrigation system 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.

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WARRANTY AND DISCLAIMER

Pennwalt Corporation 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 rules referred to therein. PENNWALT MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL PENNWALT 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.

Pennwalt 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 Pennwalt.

5-7310D-01 2/89 (89)