



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

JAN 19 1992

Rebecca A. Clemmer
ELF ATOCHEM N.A. INC
AGCHEM DIVISION
THREE PARKWAY ROOM 619
PHILADELPHIA, PA 19102

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 08/09/93 In Response to PR Notice 93-7
EPA Reg. No. 4581-372
TOPSIN M 85 WDG

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable
Printed with SoyCeram[®] ink
contains at least 50% recycled paper

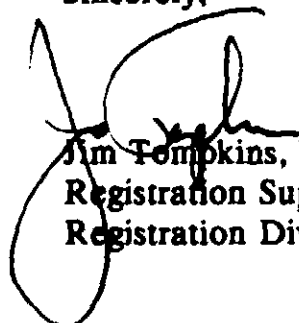
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

elf atochem

ATO

NOT FOR USE IN CALIFORNIA

TOPSIN® M 85WDG

Thiophanate-Methyl Fungicide 85% Water Dispersible Granule

ACCEPTED
with COMMENTS
In EPA Letter Dated

JAN 14 1981

ACTIVE INGREDIENT:

Thiophanate-Methyl(dimethyl[1,2-phenylene]-Under the Federal Insecticide,
bis(iminocarbonothioyl))bis(carbamate))* Fungicide, and Rodenticide Act 85%

INERT INGREDIENTS: as amended, for the pesticide 15%

TOTAL: 4581-372 100%

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

*TOPSIN is a registered trademark of Nippon Soda Company, Ltd., and is licensed to Elf 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

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.

EPA Reg. No. 4581-372

EPA Est. No. 4581-TX-1

NET CONTENTS 3.3 Lbs/1.5 Kg

Sold by:

ELF ATOCHEM NORTH AMERICA, INC.

AGCHEM DIVISION

Philadelphia, PA

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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 manner 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 Territory, 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, 40CFR 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 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.

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
- waterproof gloves
- shoes plus socks.

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.

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

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.

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TOPSIN M 85WDG

Crop	Diseases	Lbs/Acre	Remarks
Almonds	Brown Rot Blight (<i>Monilia</i> sp.)	1.5-1.6	Apply at early pink bud and early petal fall.
Apples (pre-harvest)	Apple Scab (<i>Venturia</i> sp.) Rust (<i>Gymnosporium</i> sp.) Frypow (<i>Blumeriella</i> sp.) Powdery Mildew (<i>Podosphaera</i> sp.) Sooty Blotch (<i>Cladosporium</i> sp.) Black Rot (<i>Phytophthora</i> 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.
Beans	Gray Mold (<i>Botrytis</i> sp.) White Mold (<i>Sclerotinia</i> sp.)	1.5-1.6 OR 0.8-1.2	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 21 days of harvest.
Celery	Early Blight (<i>Alternaria</i> sp.) Late Blight (<i>Phytophthora</i> 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 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)	Anthracnose Cucurbit Blight Powdery Mildew Target Spot (<i>Cucurbitaria</i>)	0.2-0.4 for ground applications OR 0.4 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.
Cucumbers	White Rot (<i>Sclerotinia</i> sp.)	0.27-0.4 1000 lb. of row	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.
Peas	Leaf Spot (<i>Ascochyta</i> sp.)	0.4	Begin applications 15 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.
Peas	Brown Spot (<i>Ascochyta</i> sp.) Downy Spot (<i>Gymnosporium</i> sp.) Powdery Mildew (<i>Blumeriella</i> sp.) Scab (<i>Phoma</i> sp.)	0.4-0.8	Use the higher rate for peas 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 shock sets. Do not apply after shock sets.
Soybeans	Anthracnose (<i>Colletotrichum</i> sp.) Brown Spot (<i>Ascochyta</i> sp.) Frypow Leaf Spot (<i>Ascochyta</i> sp.) Pod and Stem Blight (<i>Ascochyta</i> sp. and the imperfect stage) Phomopsis (<i>Phomopsis</i> sp.) Purple Seed Rot (<i>Ascochyta</i> sp.)	0.4-0.8	Apply from full bloom to when pods are 4" to 6" in length. Make a second application 14 to 21 days later. Do not make the second application later than 14 days after pods average 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 grow or feed treated vetch or hay to livestock.

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Crop	Diseases	Lbs/Acre	Remarks
Bone Fruits (pre-harvest) —Apricots	Brown Rot Blossom Blight (Monilia sp.) Fruit Brown Rot (Monilia sp.)	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.)	1.2	Apply at early bloom (early popcorns). 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.
	Cherry Leaf Spot (Coccomyces sp.)	0.9-1.2	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.
	Powdery Mildew (Podosphaera sp. and Sphaerotheca sp.)	1.2 PLUS 0.9-1.2	Apply at early bloom (early popcorns). Make a second application at full bloom. PLUS Apply at about full and first cover. Do not apply within 1 day of harvest.
—Nectarines	Brown Rot Blossom Blight (Monilia sp.) Fruit Brown Rot (Monilia sp.)	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 sprays. Do not apply within 1 day of harvest.
—Peaches	Brown Rot Blossom Blight (Monilia sp.) Fruit Brown Rot (Monilia sp.)	1.2-1.9	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. Do not apply within 1 day of harvest.
	Peach Scab (Cladosporium sp.)	1.2-1.9 PLUS 0.9-1.2	Apply at early bloom (pink bud). Make a second application at full bloom if conditions favor disease development. PLUS Apply at about split and at first cover sprays. Do not apply within 1 day of harvest.
—Plums and Prunes	Brown Rot Blossom Blight (Monilia sp.) Fruit Brown Rot (Monilia sp.)	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. Do not apply within 1 day of harvest.
	Black Knot (Dibutyris sp.)	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.)	1.2	Apply at petal fall, about, 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.

Crop	Diseases	Lbs/Acre	Lbs/100 Gal	Remarks
Strawberries	Fruit Rot (Botrytis sp.) Leaf Blight (Dendrothrips sp.) Leaf Scab (Diplazium sp.)	0.6-0.8		Begin applications at early bloom and continue at 7- to 10-day intervals. Use the higher rate first 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.)	0.3-0.4		Begin applications when disease first appears and repeat at 14- to 21-day intervals as needed. Do not apply within 21 days of harvest.
Sugar Cane (Hawaii only)	Panama Disease (Thielaviopsis sp. or Carotococcus sp.)		0.4	Apply to cut seed plants as a cold or hot dip. Cold Dip—immerse seed pieces to provide thorough coverage; remove and allow to drain.
			0.2	Hot Dip—Maintain temperature of dip at 57°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 grow or feed treated forage to livestock.
Fall-Seeded Wheat (Idaho, Oregon & Washington only)	Fusarium head blight (Fusarium sp.) Fruit Rot (Botrytis sp.) Eye Spot	0.8		Apply TOPSIN M at the rate indicated in a single application by air or ground after wheat is drilled 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.

CHEMIGATION

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. 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.

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TOPSIN M 85WDG

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-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 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 $\frac{1}{2}$ or $\frac{3}{4}$ 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 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.

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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, or clothing. Avoid breathing dust or spray mist.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear: long-sleeved shirt and long pants, waterproof gloves, 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.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS:

Users should:

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

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, 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.

Supplemental labels are available for Tank Mixes for use on the following

crops:				
Apples	—	TOPSIN M	+	Captan 50 WP or Captan 80 WP
Apples	—	TOPSIN M	+	Sulfur
Stone Fruits	—	TOPSIN M	+	Sulfur
Stone Fruits	—	TOPSIN M	+	Captan 50WP or Captan 80WP
Stone Fruits	—	TOPSIN M	+	Ziram
Peanuts	—	TOPSIN M	+	Procon 80WP or Mancozeb

Contact your Regional office for a copy of the label.

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

Elf Atochem North America warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to herein, subject to the risks referred to herein. ELF ATOCHEM MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL ELF 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.

Elf 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 Elf Atochem.

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