

PM 21 4581-377

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg.
Number:
4581-
377

Date of Issuance:

DEC 22 1993

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration

(under FIFRA, as amended)

Term of Issuance:
Conditional

Name of Pesticide Product:
Topsin M WSB

Name and Address of Registrant (include ZIP Code):

Elf Atochem North America, Inc.
Agrichemicals Division
Three Parkway
Philadelphia, Pennsylvania 19102

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

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

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

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

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the following labeling change before you release the product for shipment: Add the phrase "EPA Registration No. 4581-377".
3. Submit five copies of the final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec 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.

Signature of Approving Official:

Date:

DEC 22 1993

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ATO

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WPS

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TOPSIN[®] M WSB

IN WATER SOLUBLE BAGS

THIOPHANATE-METHYL FUNGICIDE

70% Wettable Powder

ACTIVE INGREDIENT:

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

INERT 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 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.

See Back Panel for Additional Worker Protection Standard Directions.

EPA REGISTRATION NO. 4581-377

EPA ESTABLISHMENT NO. 5905-AR-1

This package contains five 1-pound water soluble bags.

SOLD BY

ELF ATOCHEM NORTH AMERICA, INC.
AGCHEM DIVISION

2000 Market Street, Philadelphia, PA 19103

3015

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, 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.

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 this 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 in the Directions for Use, subject to the risks referred to therein. 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.

5-P301W-01 K3 (11/93)WPS Made in Japan Printed in U.S.A.

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WPS

**IN WATER SOLUBLE BAGS
THIOPHANATE-METHYL FUNGICIDE**

EPA Registration No. 4581-377

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.

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.

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.

not remove inner packaging from this bag except for immediate use.

* **TOPSIN M WSB** with ground or aerial equipment, using sufficient volume of spray to provide thorough coverage. Add required amount of powdered **TOPSIN M WSB** water soluble bags to partially filled tank agitated mechanically or hydraulic means, and then add remaining required amount 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 label rate under conditions of severe disease pressure. Also, see local Extension Service recommendations for application schedules.

Do not handle water soluble bags for longer than is required to place into storage tank. Do not expose water soluble bags to moisture.

Use the LBS/ACRE rate for concentrate sprayers (less than 400 gallons) and
 mist application. Use the LBS/100 GAL rate for dilute ground application.

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

IMPORTANT: If, after using TOPSIN M WSB as recommended, treatment is not effective, a tolerant strain of lingi 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.

ACRES TREATED PER 1 LB WATER SOLUBLE BAG

**ACRES TREATED WITH
ONE WATER SOLUBLE BAC**

40

2.0

1.0

INSE	WEEDS	WEEDS	WEEDS	WEEDS
Almonds	Brown Rot (<i>Monilia</i> spp.) (<i>Monilia</i> spp.)	1-4%		Apply at early pink bud and early petal fall.
Apples (pre-harvest)	Apple Scab (<i>Venturia</i> sp.) Silver Leaf (<i>Phytophthora</i> sp.) Yergash (<i>Botrytis</i> sp.) Powdery Mildew (<i>Podosphaera</i> sp.) Sooty Blotch (<i>Botrytis</i> sp.) Black Rot (<i>Phytophthora</i> sp.)	1-1%	1-5%	Apply at 5- to 10-day intervals from green up through petal fall, continuing at 7- to 14-day intervals in cover spray. NOTE: For control of apple diseases in the Southeastern States of Florida, Georgia, South Carolina, North Carolina and Alabama, use 3 to 4 pounds ROPROL 40 WSP per acre.
Banana	Gray Mold (<i>Botrytis</i> sp.) White Blight (<i>Botrytis</i> sp.)	2-4% OR 1-2%	1-2% OR 1-1%	Apply once at 50% to 70% of full bloom. OR Apply twice with the first application at 10% to 20% of full bloom and a second application at 4 to 7 days later or at peak bloom. Do not apply to leaves or dry stems within 14 days or repeated or to live stems within 28 days of harvest.
Citrus	Early Blight (<i>Alternaria</i> sp.) Late Blight (<i>Botrytis</i> sp.)	1%		Apply to the bases of the plants on a 14- to 21-day schedule beginning about 2 weeks after transplanting. OR Apply on a later basis every 7 to 14 days beginning about 2 weeks after transplanting. Do not apply within 7 days of harvest. Do not make more than 6 applications per season.

Color	Primary	Location
Cynobilia (Cyanobacteria, blue-green, sometimes yellowish and white) (not for sale in California)	Antennae Gummy Stem (Slight) Pawley Midrib Leaf Spot (Cyanobacteria)	14-15 for ground 10-12 for aerial application
Orange	White Rot (Pseudomonas sp.)	14-15 R./ 1000 ft. of air (12 inch open standing)
Pinkish	Leaf Spot (Corynebacterium spp.)	14
Purple	Spore Spot (Corynebacterium sp.) Gummy Spot (Pseudomonas sp.) Pawley Midrib (Pseudomonas sp.) Scab (Fusarium sp.)	14-15
Reddish	Anthracnose (Colletotrichum sp.) Spore Spot (Botrytis sp.) Pawley Leaf Spot (Corynebacterium sp.) Red and Stem Slight (Pseudomonas sp. and the dependent stage, Pseudomonas sp.) Purple Seed Rot (Corynebacterium sp.)	14-15
Same Fringe (Grey-Silver) —Apricot	Brown Rot (Botrytis sp.) (Monilia sp.) Faint Brown Rot (Monilia sp.)	14
—Cinnamon	Brown Rot (Botrytis sp.) (Monilia sp.) Faint Brown Rot (Monilia sp.) Cherry Leaf Spot (Corynebacterium sp.)	14 14-15
	Pawley Midrib (Pseudomonas sp.) and (Pseudomonas sp.)	14 PLAS 14-15

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PLANT	PEST	INSECTICIDE	INSECTICIDE RATE	INSTRUCTIONS
Tomatoes	Brown Rot Blight (Botrytis sp.) Fruit Rot (Fusicladium sp.)	75	5	Apply at early bloom (pink bud). Make a second application at full bloom if conditions favor disease development. In addition, for Fruit Rot Blight, 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.
Peppers	Brown Rot Blight (Botrytis sp.) Fruit Rot (Fusicladium sp.)	75-25	5-4	Apply at early bloom (pink bud). Make a second application at full bloom if conditions favor disease development. In addition, for Fruit Rot Blight, 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.
	Fruit Rot (Fusicladium sp.)	75-25	5-4	Apply at early bloom (pink bud). Make a second application at full bloom if conditions favor disease development. FL50 FL50-75 Apply at shoot split and at first cover spray. Do not apply within 1 day of harvest.
Plants and Fruits	Brown Rot Blight (Botrytis sp.) Fruit Rot (Fusicladium sp.)	75	5	Apply at early bloom (pink bud). Make a second application at full bloom. In addition, for Fruit Rot Blight, 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 Rot (Botrytis sp.)	75	5	Apply at post-bloom, post-fruit, and at first, second, and third cover sprays at 10- to 14-day intervals. Do not apply within 1 day of harvest.
	Leaf Spot (Conocarpus sp.)	75	5	Apply at post-fruit, shoot, 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.
Tomatoes	Fruit Rot (Botrytis sp.) Leaf Spot (Conocarpus sp.) Leaf Spot (Conocarpus sp.)	75-1	5-1	Begin applications at early bloom and continue at 7- to 10-day intervals. Use the higher rate last of the three applications and under conditions of severe disease pressure. Do not apply within 1 day of harvest.
Peppers	Leaf Spot (Conocarpus sp.)	75-1	5-1	Begin applications when disease first appears and repeat at 14- to 21-day intervals as needed. Do not apply within 21 days of harvest.
Peppers and Fruits	Phytophthora Blight (Phytophthora sp.) Fruit Rot (Fusicladium sp.)	75	5 (1.1, 0.00)	Apply to wet soil places as a drench or soil drench. 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 30 minutes; remove and allow to drain. Do not use treated seed pieces for seed, fruit or foliage. Do not grow or feed treated forage to livestock.

PEST	INSECTICIDE	INSECTICIDE RATE	INSTRUCTIONS
Full-Season Tomato	Phytophthora blight (Phytophthora sp.) Fruit Rot (Fusicladium sp.) (See Spec)	1 lb (0.7 lb 20%)	Apply fungicide at 1000 to 1500 at the rate indicated in a single application by air or ground after which a third and before open infestation has begun. Use sufficient water to obtain thorough coverage. Do not under any circumstances apply more than one application per season. Do not eat for 14 days after application. Do not allow livestock to graze in treated areas before harvest.

CHEMIGATION NOT FOR THIS USE IN CALIFORNIA GENERAL INSTRUCTIONS

Apply this product only through sprayer/irrigation systems including center pivot, lateral move, and low, 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 blight 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, manually closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system intake 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 backflow.

INSTRUCTIONS FOR SPRINKLER (OVERHEAD) IRRIGATION:

Observe the requirements in the System Requirements section above.

Do not apply where wind speed forces drift beyond the area intended for treatment.

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

Maintain a gentle continuous agitation in siphon 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 or more than recommended quantity of irrigation or decreased product performance.

Do not apply when wind speed forces drift, when system operation does not provide uniform distribution or when lines containing it and must be disconnected and drained. In a center pivot system, disconnect and drain to prevent spray being applied to this area.

Where sprinkler distribution patterns do not overlap sufficiently, it may result.

Allow sufficient time for pesticide to be flushed through all lines and irrigation water.

TOPSIN M may be applied in conjunction with chemically treated in conjunction with highly alkaline fertilizers, such as aqueous ammonia of the pesticide, resulting in reduced performance and should be not. Check local restrictions and requirements regarding sprinkler irrigation very from state to state.

SPRAY PREPARATION:

Remove scale, pesticide residues, and other foreign matter from all injector system. Flush with clean water.
Prepare a suspension of TOPSIN M in a mix tank. Fill the tank with H₂O water. Start mechanical or hydraulic agitation. Slowly add the required dose the remaining volume of water.

APPLICATION INSTRUCTIONS:

Set sprayer system to deliver 8.1 to 1.25 inches of water per acre. Use this rate to reduce efficacy. Start sprayer and then uniformly inject the into the irrigation water line as to deliver the desired rate per acre. M should be injected with a positive displacement pump into the main line to insure adequate mixing.

NOTE: When treatment with TOPSIN M has been completed, do not irrigate in 48 hours to prevent washing the chemical off the crop.

WARRANTY AND DISCLAIMER

Ill. Hoechst North America warrants that this material conforms to the chemical assembly in for the purposes referred to in the Statement for Use, subject to the ATTACHED MAPS AND OTHER EXPENSES OR IMPLIED WARRANTY OF FITNESS OR OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL ILL. HOECHST CONSIDERABLE, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE PRODUCT INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, BUSINESS OR LABOR COST, OR OTHER EXPENSES INCURRED IN PLANTING OR HARVESTING.

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