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4581-372

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

1 of 7

JUL 31 1991

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

Dear Ms. Clemmer:

Subject: Amended Labeling
Topsin M 85 WDG
EPA Registration No. 4581-372
Your Submission Dated June 26, 1991

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The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable with the following comments:

- Under the Environmental Hazards section, change the second sentence to read "Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark."

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

Sincerely yours,

SL

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

Enclosure

H7505C:J.Fairfax:jf:7/26/91

CONCURRENCES							
SYMBOL							
SURNAME							
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ATO
ATO CHEM

est. 1946

PROPOSED
LABEL AMENDMENTS
TO TURF PORTION ONLY

TOPSIN® M 85WDG

FOR TURF AND ORNAMENTALS

Thiophanate-Methyl Fungicide 85% Water Dispersible Granule

ACTIVE INGREDIENT:

Thiophanate-Methyl(dimethyl[1,2-phenylene]-
bis(iminocarbonothioyl))bis(carbamate)* 85%

INERT INGREDIENTS: 15%

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

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. 4581-372

EPA Est. No. 4581-TX-1

Sold by:

ATO CHEM NORTH AMERICA, INC.—AGCHEM DIVISION
Philadelphia, PA 19102

DO NOT REPRODUCE COPY

TOPSIN M 85WDG is a water dispersible granule for use on golf course greens, tees, fairways and lawns of Bentgrasses, Bluegrasses, Fescues, Bermudagrasses, Ryegrasses, St. Augustinegrasses or their mixtures to be used for the prevention and control of the below mentioned diseases.

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

Fill spray tank with 1/2 - 3/4 of total water volume required. Start tank agitation system. High pressure jet or mechanical agitation must be provided during filling and application to assure proper dispersion/suspension of product. Add proper amount of TOPSIN M 85WDG.

Complete filling to the desired volume. Keep agitated to insure even suspension of material. Make fresh daily. Spray uniformly over the area to be treated with a properly calibrated power sprayer equipped with nozzle screens and inline strainers no finer than 50 mesh. Apply after mowing or avoid mowing for 12 hours after application. Apply in sufficient water to obtain thorough coverage, usually 5 gal. per 1,000 sq. ft. (25 gallons per 5,000 sq. ft.) of turf area. When treating golf greens, always treat aprons and approaches. Under conditions of severe disease, apply every 5 to 7 days.

Rinse tank/screens/nozzles thoroughly prior to and following application. Do not apply this product with spray equipment not having high pressure jet or mechanical agitation.

If TOPSIN M is tank mixed with other pesticide products, use the following sequence:

1. Always check compatibility of the tank mix. Pour products into a small container of water in the correct proportions. After thorough mixing, let stand for thirty minutes. If the combination remains mixed, or can be remixed readily, the mixture is compatible.
2. Add wettable powders to the tank first, allowing them to completely suspend in the tank before proceeding. This process can be hastened by premixing the product in water before adding to the tank.
3. Add flowables or suspensions next.
4. Add emulsiifiable concentrates last.
5. Do not leave tank mix combinations in the spray tank for prolonged periods without agitation. Mix and apply the same day.

Note to user: Do not apply to areas likely to be grazed by livestock and do not feed clippings to livestock or poultry.

TOPSIN®M 85WDG

<u>Disease Organism</u>	<u>Recommended Rate</u>	
	5,000 sq. ft.	1,000 sq. ft.

NOTE: For the following diseases, the spray should dry on the leaves with no "watering in."

ANTHRACNOSE (<i>Colletotricum</i> <i>graminicola</i>)	3 oz.	3/5 oz.
DOLLAR SPOT (<i>Sclerotinia</i> <i>homoeocarpa</i>)		

Apply when the disease first appears and continue at 10-14 day intervals as needed. As a curative, where preventive schedule is not followed, use 6 oz. per 5,000 sq. ft. (1 1/5 oz. per 1,000 sq. ft.).

COPPER SPOT (<i>Gloeocercospora</i> <i>sorghii</i>)	3 - 6 oz.	3/5 - 1 1/5 oz.
LARGE BROWN PATCH (<i>Rhizoctonia</i> <i>solani</i>)		
RED THREAD (<i>Corticium</i> <i>fuciforme</i>)		
FUSARIUM PATCH (<i>Fusarium nivale</i>)		

Apply when the disease first appears and continue at 10-14 day intervals. Under severe disease conditions, retreat at 5 to 7 day intervals.

NOTE: For the following diseases, "watering in" is required:

SUMMER PATCH (<i>Magnaporthe poae</i>)	12 - 24 oz.	2 2/5 - 4 4/5 oz.
NECROTIC RING SPOT (<i>Leptosphaeria korrae</i>)		
FUSARIUM BLIGHT (<i>Fusarium</i> <i>roseum</i>)		

Water into root zone by irrigating after application. Apply two applications at 10-14 day intervals, beginning when disease first appears.

STRIPE SMUT (<i>Ustilago</i> <i>striiformis</i>)	12 - 24 oz.	2 2/5 - 4 4/5 oz.
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Water into the root zone thoroughly immediately after application. Apply in October or early spring just before grass begins growth.

Apply indicated rates of TOPSIN M 85WDG in 2-4 gallons of water per 1,000 sq. ft. (10-20 gallons per 5,000 sq. ft.) of turf after mowing and allow foliage to dry before irrigation. Do not exceed label application rates for these diseases. TOPSIN M 85WDG may not be mixed with any product bearing a label prohibiting against such mixing.

Tank mixes of TOPSIN®M 85WDG and VORLAN® effectively control the following diseases plus complexes of Brown Patch (*Rhizoctonia solani*) and Anthracnose (*Colletotrichum graminicola*) on all turf grasses.

TOPSIN®M 85WDG + VORLAN®

<u>Disease</u>	<u>Application*</u> <u>Interval</u> <u>(Days)</u>	<u>Application Rate</u> <u>oz/5,000 sq. ft.</u>		<u>Application Rate</u> <u>oz/1,000 sq. ft.</u>	
		<u>Preventive</u>	<u>Curative**</u>	<u>Preventive</u>	<u>Curative</u>
Dollar Spot	14-28	3+5	6+10	3/5+1	1 1/5+2
Leaf Spots and Melting Out	14-28	3+5	6+10	3/5+1	1 1/5+2
Red Thread and Pink Patch	14-28	3+5	6+10	3/5+1	1 1/5+2
Fusarium Patch	10-21	6+10	12+20	1 1/5+2	2 2/5+4

*Re-treat at shorter intervals or use higher rates if conditions which are favorable to disease development exist.

**To control existing infections, apply at curative rate. Apply subsequent treatments at the preventive rate once control is achieved.

®VORLAN is a registered trademark of Sierra Chemical Company.

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.

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.

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 $\frac{1}{2}$ 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. 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

Attochem 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. 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.

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