NOT FOR USE IN CALIFORNIA

TOPSIN®M 85WDG

FOR TURF AND ORNAMENTALS

Thiophanate-Methyl Fungicide 85% Water Dispersible Granule

ACCEPTED

ACTIVE INGREDIENT:

Thiophanate-Methyl(dimethyl[1,2-phenyl[ne]- JUN 2 \ 1990 bis(iminocarbonothioyl)]bis[carbamate]
INERT INGREDIENTS: Under the Facinity Functions

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. 85% . 15%

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. 4531-372 EPA Est. No. 4581-TX-1

NET CONTENTS 3.3 Lbs/1.5 Kg

Sold by:

AGCHEM DIVISION—ATOUHEM NORTH AMERICA
Philadelphia, PA 19102

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GENERAL INFORMATION

. Apply TOPSIN M with ground or acrail equipment, using sufficient volume of spray to provide thorough coverage. Add required amount of TOPSIN M to partially filled tank apitated 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 posticides, such as Bordook mixture or time sultur. No claim of compatability with other pesticides is implied. Use the higher rate under conditions of severe disease pressive. Also, see local State Extension Service recommendations for application schedules.

DIRECTIONS FOR USE

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

Chemigation instructions follows 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 eral warnings are given, such wurnings 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 u.z workers. Written warnings must include the following information: "CAUTION. Area treated with TOPSIN M 85WOG Thiophanate-methyl Fung "de on (date of application)"

CHEMIGATION GENERAL INSTRUCTIONS

Apply this product only through sprinkler irrigation systems including center pivot, lateral move, and faul, side (wheel) rell, traveler, big gen, solid set, or hand move. Do not apply this product through any other type of irregulation sys. "It

injury lack of effectiveness, or diegal 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 either meneric

A person knowledgeable of the charalgation system and responsible for its operation, or under the su

SYSTEM REQUIREMENTS

ems velicing a pressurzed water and pesticide injection system must meet the following require

The system must contain a functional check valve, vacuum rulet valve, and low pressure drain appropriately located on the empation pipeline to prevent water source containmation from beddow.

The pesticule expection pipeline thirst contain a functional, automatic, quick-closing check valve to prevent the flow of fluid fluids toward the imposition pump.

The pesticule injection pipeline must also contain a functional, normally closed, selencid-operated valve flowers the entire state of the injection pipeline must also contain a functional provided to the method of the injection pipeline must also contain and connected to the method of the injection pipeline must also contain and connected to the method of the injection pipeline.

The pesticule injection positive must also contain a functional, normally closed, selenoid-operated valve located on the wistle side of the injection pump and connected to the system exteriock to prevent fluid from being withdrawn from the supply test when the migration system is either automatically or manually shut down. The system must contain functional interlocting controls to automatically shut off the pesticade expection.

in the water pump motor staps.

The arregation line or visitor pump must include a functional pressure switch whic i will stop the water princetor when the water pressure decreases to the point where pesticide distribution is adversely affected.

effectively designed and constructed of materials that are compatible with personder, and capable of being fig.
with a "stem interfacts." Systems must use a metering pump, such as a positive displacomunt injection pump (e.g., di

INSTRUCTIONS FOR SPRINKLER (OVERHEAD) IRRIGATION:

Observe the requestrants in the System Requestments section above.

Do not apply when mind speed throws drift beyond the area intended for treatment.

Agely TOPSIN III only through systems containing anti-system and check valves designed to prevent water surce containing anti-system or vivillation of the mix tank and containing interfecting controls between the matering. source cont

3 stars simultaneous shut-off what aplitition in this funk during mining and application to assure a uniform ice and the water pump is no Assistant a grade continuous

Greater accuracy in collection and distribution will be achieved by injecting a larger volume of a more dilute ---

Application of more than recommended quantities of irrigation water per acre may result in decreased product

, or Hitrogs in 10 to Resident On not apply when word speed levers drift, when system connections or life revols writtens distribution or when lines containing the product convert be fit ning the product care and dramed. In a center pivol system, block the nozzie set rearest the settleprot/injection unit to prevent spray being applied to this area.

sprinter distribution patterns do not overlap sufficiently, unacceptable disease control may result Allow sufficient time for pesticale to be flushed through all lines and all nezzies before turning off impalion

TOPSIN M may be applied in conjunction with chemically resulted liquid furtilizers. Application in conjunction the highly alkaline furtilizers, such as aqueous ammonie, may cause a degradation of the particular resulting indiscall performance and should be availed.

Check local restrictions and requirements regarding sprintler imageson applications, as they may very from

SPRAY PREPARATION

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Remove scale, pastic Flush with clean restor stade residues, and other foreign matter from the charactal tank and entire injector pystem

on of TOPalls M in a misc tark. Fill the tark with 15 or 16 the desired amount of entire Start machinical or hydraulic agillation. Stanfy add the required amount of TOPSMI M and then the remaining

APPLICATION INSTRUCTIONS

Sit aprivate system to deliver 8 1 to 1.25 inches of water per acre. Volumes of water higher than this reduces officery. Short aprivates and their uniformly inject the supposession of TOPSHI M into the irrigation with a suppose of the deliver the desired rate per acre. The supposession of TOPSHI M physidi the injected with a pure despendency pump only the mate time ahead of a right angle turn to inquire adequate making.

NOTE When beatment with 10/901 M has been correlated, do not irrigate the treated area for 24 to 48 hours to prevent waiting the characted off the crop

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

Atochem North America warrants that this material conforms to the charged description on the la ADDITION NOTE INVESTIGATION OF THE PROPERTY OF

Alochem and seller effer this product and the buyer and user accept it subject to the foregoing conditions of seller and nerrarity which may be versel only b. agree.non, in writing signed by a duly authorized representative

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DIRECTIONS FOR USE ON TURF AND ORNAMENTALS

DIRECTIONS FOR USE

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

TURF

For use on golf course greens, tees, and fairways of Bentgrasses, Bluegrasses, Bermudagrasses, Fescues, Ryegrasses, St. Augustine grasses, or their mixtures. TOPSIN M is not phytotoxic to any of the above mentioned grasses when used in accordance with the label. TOPSIN M is to be used for the prevention and control of the below mentioned diseases (provides both curative and protective action).

Use spray mixture the same day it is prepared. Spray uniformly over the area to be treated. Apply after mowing or avoid mowing for twelve hours after application.

Apply recommended amounts in sufficient water to obtain thorough coverage, usually five gallons per 1,000 square feet of turf area. When treating golf greens, always treat aprons and approaches. Use the highest recommended rate under conditions of severe disease pressure.

FUSARIUM BLIGHT (Fusarium roseum) - Apply TOPSIN M at 4 to 7 ounces per 1,000 square feet. Water into the root zone by irrigating with one inch of water immediately after application. Make two applications at 10 to 14-day intervals, beginning applications when the disease first appears.

DOLLAR SPOT (Sclerotinia homoeocarpa), COPPER SPOT (Gloeocercospora sorghi) - Apply TOPSIN M at 3/4 to 1 1/2 ounces per 1,000 square feet beginning when the disease first appears and continue at 10 to 14-day intervals through the season or as needed.

LARGE BROWN PATCH (Rhizoctonia solani) - Apply TOPSIN M at 3/4 to i 1/2 ounces per 1,000 square feet beginning when the disease first appears and continue at 10 to 14-day intervals through the season or as needed. When conditions are unusually favorable for development of disease, reduce interval to 5 to 7 days.

STRIPE SMUT (Ustilago striiformis) - Apply TOPSIN M at 4 to 7 ounces per 1,000 square feet. Water into the root zone by irrigating with one inch of water immediately after application. Make two applications at 14 to 21-day intervals. Begin applications when the disease first appears, either in the spring or fall.

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ORNAMENTALS, ROSES, FLOWERS, SHADE TREES (FIELD AND GREENHOUSE)

FOLIAR SPRAY: Begin applications when disease first appears and repeat at 10 to 14-day intervals throughout the growing season; shorten interval during humid, rainy weather.

Use at the following rates:
Use 0.4 pound per 100 gallons for Powdery Mildew and Botrytis Gray Mold.

Use 0.8 pound per 100 gallons for Anthracnose (for shade trees and woody ornamentals, begin at bud break and make 2 or 3 additional applications at 10 to 14-day intervals); Black Spot of roses; Cercospora, Entomosporium, Ramularia, and Septoria Leaf Spots; Ascochyta and Phomopsis Blights; Didymellina Leaf Spots of iris; Corynespora Leaf Spot of ligustrum; Ovulinia of azalea and rhododendron (begin as flowers open); Scab of pyracantha and flowering crab.

Addition of a surfactant to the spray mixture improves distribution of the spray on hard-to-wet plants such as roses. For aerial application, use 0.4 to 0.8 pound per acre.

DRENCH TREATMENT: Botrytis, Fusarium, Rhizoctonia, and Sclerotinia stem, crown, and root rots on herbaceous annuals, perennials, and bedding plants; Cylindrocladium and Thielaviopsis rots on woody ornamentals such as azaleas, rhododendrons, conifers, and poinsettias - Use 0.8 pound per 100 gallons; apply as a drench or heavy spray (1 to 2 pints per square foot) after transplanting into propagation beds or continers. Repeat at 2 to 4 week intervals during periods favorable for disease. TOPS1. M does not control Pythium spp. or Pytophthora spp.

PREPLANT DIP TREATMENT: Plants or Cuttings - For diseases listed under Drench Treatment, use 0.8 pound per 100 gallons of water; immerse plants or cuttings for 10 to 15 minutes; remove and allow to drain.

Bulbs (Easter Lily, Tulip, Gladiolus, Daffodil, Iris) Fusarium and Penicillium Rots - Use 1.4 pounds per 100 gallons of water. Soak cleaned bulbs for 15 to 30 minutes in warm dip (80° to 85°F) preferably within 48 hours after digging. Dry bulbs after treatment. If bulbs are for forcing, treat bulbs that have been heat-cured.

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