

TOPSIN® M
70% Wettable Powder

TURF AND ORNAMENTALS FUNGICIDE

NOT FOR USE IN CALIFORNIA

ACTIVE INGREDIENT:

Thiophanate-methyl (dimethyl)[(1,2-phenylene)bis
(iminocarbonothioyl)]bis[carbamate])* - 70%

INERT INGREDIENTS: - - - - - 30%
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 Pennwalt Corporation.

ACCEPTED with COMMENTS Covered by one or more of the following U.S. Patents: 3,769,308; 3,856,847; 4,020,095; and 4,029,813
in EPA Letter 1-28-83

JAN 4 1983

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
4581-288

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

May be Harmful if Swallowed, Inhaled, or Absorbed Through Skin

Avoid contact with eyes, skin, or clothing. Avoid breathing of dust or spray mist. Wash thoroughly with soap and water after handling. Wash contaminated clothing before reuse. Do not contaminate feed or food. Keep children and pets out of treated areas until material is completely dry.

STATEMENT OF PRACTICAL TREATMENT

If swallowed, induce vomiting with a mixture of soap or mustard in warm water. Call a physician immediately. If on skin, wash immediately with soap and water. If in eyes, flush immediately with plenty of water.

ENVIRONMENTAL HAZARD

Do not apply directly to water. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE DISPOSAL - Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, state, or local procedures.

CONTAINER DISPOSAL - Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of bags in a sanitary landfill or by incineration if allowed by State and local authorities.

DIRECTIONS FOR USE. See accompanying brochure located on the rear of this package.

EPA Registration No. 4581-288

EPA Establishment No. 8033-JP-1

Net Weight 2 Lbs

Sold by

AGCHEM DIVISION - PENNWALT CORPORATION

Made in Japan

Philadelphia, Pennsylvania

Printed in U.S.A.

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in EPA Letter 1-28-83

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GENERAL INFORMATION

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 copper-containing materials or with highly alkaline pesticides, such as Bordeaux mixture or lime sulfur. No claim of compatibility with other pesticides is implied. Use the higher rates under conditions of severe disease pressure. Also, see local State Extension Service recommendations for application schedules.

IMPORTANT: If, after using TOPSIN M as recommended, treatment is not effective, a tolerant strain of fungi may be present (consult your local Pennwalt representative). 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

GENERAL CLASSIFICATION

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.

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 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. When conditions are unusually favorable for development of disease, reduce interval to 5 to 7 days.

FUSARIUM BLIGHT (Fusarium roseum) - Apply TOPSIN M at 4 to 8 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.

STRIPE SMUT (Ustilago striiformis) - Apply TOPSIN M at 4 to 8 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 the fall.

ACCEPTED
with COMMENTS
in EPA Letter Dated

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.

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Use at the following rates: 1/2 pound per 100 gallons (1 tablespoonful per 2 gallons) for Powdery Mildew, Botrytis Gray Mold.

One 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 1/2 to 1 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 1 pound per 100 gallons; apply as a drench or heavy spray (1 to 2 pints per square foot) after transplanting into propagation beds or containers. Repeat at 2 to 4-week intervals during periods favorable for disease. TOPSIN M does not control Pythium spp. or Phytophthora spp.

Preplant Dip Treatment - For diseases listed under Drench Treatment, use 1 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 1-2/3 pounds per 100 gallons of

water (2 tablespoonfuls per gallon). 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 after bulbs have been heat-cured.

ACCEPTED
with COMMENTS
to EPA Letter Dated:

JAN 4 1983

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for use as a
registered under

4581-288

310 85312
18 1

Pennwalt Corporation
Agrochemicals Division
Three Parkway
Philadelphia, PA 19102

4 file

Attention: Gerald D. Rosebery

Gentlemen:

Subject: Topsin M Turf Fungicide
EPA Registration No. 4581-288
Amended Application Dated December 9, 1982

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable 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.

2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

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

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

Sincerely yours,

Henry M. Jacoby *H.M.J.*
Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (TS-767)

Enclosure

TS-767:H.JACOBY:DCR-03357:WANG-1674C:qum:Raven:479-2013:12/16/82