



THIOMYL

Ornamental Systemic Fungicide

For the prevention and control of diseases of Annual and Perennial Flowers, Bedding Plants, Ground Covers, plus Deciduous and Evergreen Trees and Shrubs.

ACTIVE INGREDIENTS

Thiophanate-methyl (dimethyl 4,4'-o-phenylenebis [3-thioallophanate]).....	50%
OTHER INGREDIENTS	50%
TOTAL	100%

Thiomyl is a registered trademark of Southern Agricultural Ins. Inc. (U.S. Pat. No. 1821956)

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For 24-Hour Emergency Assistance Call Chemtrec 1-800-424-9300.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, where surface water is present, or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater. Do not apply, allow to drift, or drain, or flush equipment onto non-target areas.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Natural rubber, polyvinyl chloride and polypropylene are chemical-resistant for this product. If you want more options, follow the instructions on an EPA chemical-resistance category selection chart.

Mixers, loaders, applicators and other handlers supporting dip treatment must wear: Coveralls over long sleeved shirt and long pants, Chemical-resistant gloves, Chemical-resistant footwear plus socks, A chemical-resistant apron. All other mixers, loaders, applicators and handlers must wear: Long sleeved shirt and long pants, Shoes plus socks, and Chemical-resistant gloves for all mixers and loaders and for applicators using handheld equipment.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

USER SAFETY RECOMMENDATIONS

User should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. User should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

Distributed By: **Southern Agricultural Insecticides, Inc.**
 Palmetto, FL 34220 Hendersonville, NC 28793 Boone, NC 28607
 EPA Reg. No. 1001-63-829 **Net Weight: 6 ozs. (170.1 grams)**

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container in a dry, temperature controlled 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, contain/recapture spillage and dispose of in accordance with the Pesticide Disposal Instructions listed below.

HOME USE DISPOSAL: If **empty:** Nonrefillable container. Do not reuse or refill this container. Securely wrap original container in several layers of newspaper and discard in trash. Offer for recycling if available. If **partly filled:** Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

HOMEOWNER ORNAMENTAL

HOMEOWNER DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING. Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or residential grounds.

For use on ornamentals only.

GENERAL INFORMATION

THIOMYL is a broad-spectrum fungicide exhibiting preventative, curative and systemic properties. It is useful on a wide variety of ornamental disease problems. Apply Thiomyl with ground or overhead equipment, using sufficient volume of spray to provide thorough coverage. Use the higher rates under conditions of severe disease pressure. Also, see local State Extension service recommendations for application schedules.

Do not allow people or pets to enter treated area until sprays have dried. Do not apply this product in a way that will contact any person or pet, either directly or through drift. Keep people and pets out of the area during application.

Resistance Managements: To avoid the development of tolerant strains of fungi, Thiomyl should be used with fungicides of different modes of action. Southern Agricultural does not recommend the use of products containing thiabendazole in combination or rotation with Thiomyl. These utilize similar chemistry and mode of action and can contribute to development of disease tolerance. If, after using Thiomyl as recommended, the treatment is not effective, a tolerant strain of fungi may be present. Consult your local Thiomyl Chemical representative, your State Agricultural Experiment Station, or your State Cooperative Extension Service for proper disease identification and advice on the prompt use of some other suitable fungicide or disease control strategy. As long as recommended precautions are followed, Thiomyl can remain useful for disease control.

Mixing Instructions: Thiomyl consists of a loose powder inside a protective outer resealable package. Add required amount of Thiomyl to a partially filled tank (1/2 total volume) and agitate by mechanical means while adding the remaining required amount of water. Once the product has completely dissolved, add tank mix product if used (see below). **Do not tank mix Thiomyl with copper-containing materials or with highly alkaline pesticides, such as Bordeaux mixture or lime sulfur.** High pH environments cause a shortened tank life for product. Buffer the tank water to pH 6-7 prior to the addition of Thiomyl. Cleary's NutriGrow Magnum may be used for pH buffering by adding one teaspoon per gallon. Continuous agitation is recommended to keep the material in proper suspension. For best results, use spray mixture the same day it is prepared.

Tank mixing instructions: Thiomyl is compatible with most commonly used pesticides. If tank mixing with other materials, add products in the following order: water soluble bags, wettable powders, dry flowables, liquid flowables, emulsifiable concentrates, and soluble materials such as fertilizers. No claim of compatibility with other products is implied. **Do not tank mix with copper-containing materials or with highly alkaline pesticides, such as Bordeaux mixture or lime sulfur (see Mixing Instructions).** Consult the intended tank mix partner product label for appropriate application rates and use instructions. Follow the label directions for the most restrictive of label precautions and limitations. This product cannot be mixed with any product containing a label prohibition against such mixing. Read and observe the most restrictive precautionary statements and other information appearing on product labels used in mixtures. Thiomyl 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. Tank mix products containing boron or releasable free chlorine will affect the solubility of water soluble (PVA) film. Thoroughly rinse the spray tank of any boron containing spray solution prior to adding any water soluble bags Even minimal carry over concentrations of boron in the spray tank may cause the water soluble bag material dissolved in water to precipitate and form insoluble residue inside the spray tank.

HOMEOWNER HORTICULTURAL APPLICATIONS

Annual and Perennial Flowers, Bedding Plants, Foliage Plants, Ground Covers, plus Deciduous and Evergreen Trees and Shrubs.

Not intended for homeowner use on vegetables. Do not apply to home orchards/fruit trees. Do not use fruits or nuts from treated trees as food or feed.

Thiomyl is a broad spectrum systemic fungicide which controls a variety of foliar, stem, and root diseases on a wide range of commercially important plants. Thiomyl is also effective as a preplant dip on cuttings and bulbs. For soil drench applications, best crop protection is achieved with preventative treatments repeated every 21-28 days. For foliar applications, begin treatments when disease first appears, or during suspected periods of disease incidence. Apply additional applications every 7-14 days or as otherwise instructed for the prevention or control of the listed diseases. Use of a wetting agent is recommended for plants that have leaves that are difficult to wet properly. Use of a spreader-sticker is recommended to enhance product performance in wet weather conditions or during periods of overhead irrigation. Thiomyl may be applied as a ground application using hand held, mechanical or motorized spray equipment where applicable. See specific instructions below. For foliar and drench applications, do not exceed 1.8 pounds active ingredient per acre (3.6 lbs. of Thiomyl product) in a single application.

Note: The "Directions for Use" of the product reflects the cumulative inputs from both historical field use and product testing programs. However, it is impossible to test this product on all species and cultivars. A preliminary trial is suggested on a small scale before a full treatment is applied to any plant type not shown on this label but found in a similar use site with a listed disease problem. Wait 5-7 days after treatment to evaluate results. This product is not recommended for use on Swedish Ivy (*Nephrolepis exhalta*), Boston Fern (*Plectranthus australis*), and Easter Cactus (*Hatiora gaertneri*).

Application Instructions

Apply material with properly calibrated hand held, mechanical or motorized spray equipment. Begin applications when disease first appears and repeat at 7-14 day intervals or as needed during the growing season. Use the shortest interval when conditions are unusually favorable for the development of disease. For hand held, mechanical, or motorized applications mix 1-4 teaspoons of Thiomyl per one (1) gallon water and apply as a full coverage spray to drip for the prevention and control of the diseases listed below. Continuous agitation is required to keep product in suspension. The maximum application rate is 1.8 lbs. ai per acre per application (3.6 lbs. of Thiomyl).

FOLIAR APPLICATION

<u>DISEASES CONTROLLED</u>	<u>RATE/GAL</u>	<u>REMARKS</u>
Anthraxnose	2 1/4 - 3 tsp.	Apply as buds break or at first sign of disease. Repeat at 7-14 days during disease period.
Black Spot of Rose Diplocarpon rosae	2 1/4 - 3 tsp.	Apply early summer or at first sign of disease. Repeat every 7-14 days during disease period.
Brown Rot and Blight Monilinia, Sclerotinia, Whetzellinia	2 1/4 - 3 tsp.	Apply late Spring or at first sign of disease Repeat every 7-14 days during disease period.
Fusicidium and Venturia Leaf Scabs on: Crabapple, Hawthorne, Pear, Mountain Ash, Pyracantha, etc.	2 1/4 - 3 tsp.	Apply as buds break. Repeat every 7-14 days during disease period. Effective control requires coverage during leaf expansion. Rotations and/or tank mix combinations with mancozeb, (Protect), Chlorothalonil or propiconazole can be utilized. Do not use fruit from treated crabapple or pear trees for food purposes.
Leaf Spots and Blights caused by: Ascochyta, Blumeriella Botrytis, Cercospora, Cocomyces Curvularia, Didymellina, Entomosporium, Fabraea, Fusarium, Ramularia Rhizoctonia, Marssonina, Mycosphaerella Myrothecium, Phoma, Physalospora, Schizothyrium, Septoria, Sphaceloma Ovulinia Blight	2 1/4 - 3 tsp.	Apply when disease symptoms first appear. Repeat every 7-14 days during disease period. Rotations and/or tank mix combinations with mancozeb, (Protect), or chlorothalonil can be utilized.
Powdery Mildew Erysiphe, Microsphaera, Phyllactinia, Podosphaera, Oidium, Sphaerotheca	1 1/2 - 3 tsp.	Apply as flowers open. Repeat every 7-14 days during disease period.
Rust Diseases caused by: Puccinia, Gymnosporangium, Uromyces	2 1/4 - 4 1/2 tsp.	Apply when disease first appears and repeat 7-14 days during disease period. Rotations and/or tank mix combinations with mancozeb or chlorothalonil can be utilized.
Tip Blight of Pine (Sphaeropsis sapinea, Diplodia pinea)	2 1/4 - 3 tsp.	Apply late Spring or when symptoms first appear. Repeat every 7-14 days during disease period. Rotations and/or tank mix combinations with Mancozeb or chlorothalonil are recommended.
Twig Blights, Cankers, and Diebacks Diaporthe, Kabatina, Phoma, Phomopsis	3 -4 1/2 tsp.	Begin application in spring when new growth starts. Make a second application just before needles emerge from the sheath and a third application 14 days later. Thorough coverage is essential for optimal disease control.

SOIL DRENCH APPLICATION

<u>DISEASE(S) CONTROLLED</u>	<u>RATE/GAL</u>	<u>REMARKS</u>
Stem, Crown and Root Rots caused by: Botrytis, Cylindrocladium Myrothecium, Penicillium, Ramularia, Rhizoctonia, Sclerotinia	1 1/2 - 3 tsp.	Apply as a drench or directed spray using hand held, mechanical, or motorized spray equipment, or as chemigation drench or directed spray using applicable sprinkler irrigation systems, after seeding or sticking of cuttings (8oz.) or after transplanting (12-16 oz.) to propagation beds, containers, pots,
Black Root Rot Thielaviopsis	trays, or nursery	or landscape beds at a rate to thoroughly soak the growing media through the root zone. A general guide is 0.25 -3 pints of finished mixture per sq. ft. depending on the media type and depth (about 4 oz. per 4 inch pot or 8 oz. per 6 inch pot). Repeat every 21-28 days for adequate crop protection.

Note: Thiomyl does not control Pythium or Phytophthora. Tank mix combinations with metalaxyl, mefenoxam, etridiazole, fosetyl-A, mono and dipotassium salts of phosphorous acid or proamocarb are required for the control of Pythium and Phytophthora.

<u>PLANT DIP APPLICATION DISEASE(S) CONTROLLED</u>	<u>RATE /GAL.</u>	<u>REMARKS</u>
Plant or cutting Diseases caused by Botrytis, Cylindrocladium, Fusarium, Gliocladium, Myrothecium, Penicillium Ramularia, Rhizoctonia, Sclerotinia, Thielaviopsis	3 tsp. - 4 1/2	Immerse plants or cuttings for 10-15 min. Remove and allow to drain. Note: Follow accepted hygiene practices to minimize the introduction and spread of water borne bacterial and water mold fungal diseases.
Bulb, Corm, and Rhizome Rots caused by: Botrytis, Cylindrocladium, Fusarium, Gliocladium, Myrothecium, Penicillium Ramularia, Rhizoctonia, Sclerotinia, Thielaviopsis	3 tsp. - 4 1/2	Soak cleaned bulbs for 15 - 30 minutes in solution (80-85 degrees F). For storage disease prevention, treat bulbs preferably within 48 hours after digging. After treatment dry well before storing. If bulbs are forcing, treat bulbs that have been heat-cured. Note: Follow accepted hygiene practices to minimize the introduction and spread of water borne bacterial and water mold fungal diseases.

LIMITED WARRANTY AND DISCLAIMER

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