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**3336 PLUS™**  
SYSTEMIC FUNGICIDE  
With CLEARTEC™ Activation Technology™

For the prevention and control of turf diseases. Not for homeowner use.

**ACTIVE INGREDIENT:**

Thiophanate-methyl (dimethyl 4,4'-o-phenylenebis[3-thioalophanate]) ..... 19.4%

**OTHER INGREDIENTS** ..... 80.6%

TOTAL .....100%

*\*This product contains 2.0 lbs thiophanate methyl per gallon.*

**KEEP OUT OF REACH OF CHILDREN**

**WARNING**

**FIRST AID**

<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor for treatment advice.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>IF INHALED</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call poison control center or doctor for treatment advice.</li> </ul>

For emergency information, call (732) 329-8399 or your poison control center. For medical or transportation emergencies only call 24 hours a day CHEMTREC (800)424-9300. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

EPA Reg. No. 1001-78  
EPA Est. No. 70815-GA-1  
CLEARY CHEMICALS LLC  
178 Ridge Rd., Suite A  
Dayton, NJ 08810-1501  
732-329-8399  
800-524-1662



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## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS.

- **WARNING** – Causes skin irritation. Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Do not get on skin or clothing. Avoid contact with eyes.

### PERSONAL PROTECTION EQUIPMENT (PPE):

Some materials that are chemical-resistant to this product are made of any waterproof materials. If you want more options, follow the instructions for Category C on an EPA chemical resistance selection chart.

Handlers mixing, loading and applying the product as a dip must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves
- Chemical-resistant footwear plus socks
- Chemical-resistant apron
- For overhead exposure wear Chemical-resistant headgear
- When cleaning equipment, wear a Chemical-resistant apron

All other mixers, loaders and applicators must wear:

- Coveralls over short sleeved shirt and short pants
- Chemical-resistant footwear plus socks
- Chemical-resistant gloves (such as or made out of any waterproof material, selection category C)
- Chemical-resistant apron for mixers, loaders and other handlers exposed to concentrate, and for cleaning equipment.
- For overhead exposure wear Chemical-resistant headgear

### USER SAFETY REQUIREMENTS

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

Users Should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE 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

Do not apply directly to water, or areas 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 wash water.

## DIRECTIONS FOR USE

**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.



### AGRICULTURAL USE REQUIREMENTS

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, greenhouses and handlers of agricultural insecticides. 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 on 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 over long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for over head exposures.

Exemption: if the product is applied by drenching, the Worker Protection Standard, under certain circumstances, allows workers to enter treated areas if there will be no contact with anything that has been treated.

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box only apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Turf and Landscape Uses: Do not enter or allow others to enter until sprays have dried.

### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in a cool, dry place.

**Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be used according to the label instructions, contact your state Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal (Nonrefillable container):** Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Offer for recycling, if available.

**Residue Removal:** Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

### GENERAL INFORMATION

**Failure to follow directions and precautions on this label may result in crop injury, poor disease control, and/or illegal residues.**

3336 PLUS is a broad spectrum fungicide exhibiting preventative, curative and systemic properties. It is





useful on a wide variety of turf disease problems. Apply 3336 PLUS with ground or overhead equipment, using sufficient volume of spray to provide thorough coverage. Do not apply with fixed wing or rotary aircraft. Use the higher rates under conditions of severe disease pressure. Also, see local State Extension Service recommendations for application schedules. This product is not for homeowner use, and can only be used by individuals/firms licensed under the direction of, or registered by, the state to apply turf pest control products. Chemigation instructions follow "Directions For Use". Read and follow these instructions carefully for this method of application.

**Resistance Management:** To avoid the development of tolerant strains of fungi, 3336 PLUS should be used with fungicides with different modes of action. Cleary Chemical does not recommend the use of products containing thiabendazole in combination or rotation with 3336 PLUS. These utilize similar chemistry and mode of action and can contribute to development of disease tolerance. If after using 3336 PLUS as recommended and the treatment is not effective, a tolerant strain of fungi may be present. Consult your local Cleary 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, 3336 PLUS can remain useful for disease control.

**Mixing Instructions:** SHAKE WELL BEFORE USING. Some settling may occur during prolonged periods of non-use. High pH environments cause a shortened tank life for diluted product. The buffering of tank water to pH 6-7 prior to the addition of 3336 PLUS is recommended. Add required amount of 3336 PLUS to partially filled tank (1/2 total volume), agitate by mechanical or hydraulic means, add tank mix product if used (see below), agitate again and then add remaining required amount of water. 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:** 3336 PLUS may be compatible with most commonly used pesticides. If tank mixing with other materials, add products in the following order: 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. 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. Read and observe the most restrictive precautionary statements and other information appearing on product labels used in mixtures. 3336 PLUS 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.

## CHEMIGATION REQUIREMENTS

### GENERIC REQUIREMENTS

1. Apply this product only through the following types of systems: sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, solid set, or hand move; flood (basin); or drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system.
2. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. 3. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
4. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
5. 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.

### SPECIFIC REQUIREMENTS

1. Public water system means a system for the provision to the public 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.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the





point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back towards the injection pump.
4. The pesticide injection pipeline must 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 drawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. 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.
7. Do not apply when wind speed favors drift beyond the area intended for treatment

#### **NON SPECIFIC REQUIREMENTS**

1. Remove scale, pesticide residue, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.
2. Prepare a suspension of product in the mix tank or stock bucket. Fill the tank with 1/2 or 3/4 of the desired amount of water. Start agitation and add the required amount of product to the solution along with the remaining volume of water.
3. Maintain a gentle agitation in the mix tank during application to assure a uniform suspension. Follow mixing instructions and tank mixing instructions previously indicated.
4. Start system and then uniformly inject the suspension of 3336 PLUS into the irrigation line so as to deliver the desired rate per acre. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation system.
5. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time.
6. The suspension of 3336 PLUS should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing.

#### **SPRINKLER (OVERHEAD) CHEMIGATION**

Observe all instructions in the generic, specific and non-specific requirements sections above and the following additional requirements:

1. 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.
2. 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. Set sprinkler system to deliver 1/10 to 1/4 inches of water per acre. Volumes of water higher than this may reduce efficacy. Application of more than recommended quantities of irrigation water per acre may result in decreased product performance. Where sprinkler distribution patterns do not overlap sufficiently, unacceptable disease control may result. 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. Allow sufficient time for pesticides to be flushed through all lines and all nozzles before turning off irrigation water.

#### **FLOOD (BASIN) CHEMIGATION**

1. Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and down stream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.
2. Systems utilizing a pressurized water and pesticide injection system must meet the following requirements: Observe all instructions in the generic, specific and non-specific requirements sections above and items 1 and 2 of the sprinkler irrigation requirements.

#### **DRIP (TRICKLE) CHEMIGATION**

Observe all instructions in the generic, specific and non-specific requirements sections above.





## TURF APPLICATIONS

3336 PLUS may be used on all fine turf applications such as commercial, residential and public (such as, home lawns, parks, athletic fields, schools, and day care centers), and golf courses (greens, tees, fairways and aprons) of cool and warm season grasses such as Bentgrass, Bluegrass, Bermudagrass, Fescue, Ryegrass, St. Augustinegrass, Zoysiagrass, or their mixtures. 3336 PLUS is not phytotoxic to any of the above mentioned grasses when used in accordance with the label. 3336 PLUS is to be used for the prevention and control of the diseases mentioned below. It has both preventative and curative activity. Do not graze animals on treated turf. Do not feed clippings to livestock or poultry. Not for use on turf being grown for sale or other commercial use as sod.

**Application Instructions:** Apply material with properly calibrated hand held, mechanical or motorized spray equipment or by chemigation through appropriate sprinkler irrigation systems. Spray uniformly over the area to be treated. Apply recommended amounts in sufficient water to obtain thorough coverage of treatment area (2-4 gal per 1,000 sq ft is suggested). Use the highest recommended rate under conditions of severe disease pressure. For best results, apply after mowing or avoid mowing twelve hours after application. For root pathogens, lightly water the treatment area to move the fungicide into the active root zone with one to two tenths inch of water. Excessive irrigation may move application below active root zone and reduce application effectiveness. Green design and drainage will influence irrigation practices. When tank mixing with contact action fungicides for foliar diseases, applications should be allowed to dry on leaf surfaces. Normal watering may proceed after sprays have dried.

**Table 1: Maximum Individual Application Rates and Minimum Re-Treatment Intervals**

Do not exceed the amounts per acre or reduce the re-treatment interval indicated below.

Use Site	Maximum Application Rate of 3336 Plus	Minimum Re-Treatment Interval	Comments
Residential or Public Areas	1.36 Gallons/Acre (4 oz / 1,000 sq ft)	14 days	
Golf Course Tees, Greens, Aprons	4.08 Gallons/Acre (8 oz / 1,000 sq ft)	14 days	
Golf Course Fairways - Except Florida	2.73 Gallons/Acre (8 oz / 1,000 sq ft)	14 days	Excludes Florida
Golf Course Fairways - Florida Only	1.36 Gallons/Acre (4 oz / 1,000 sq ft)	14 days	Florida Only One Application Only During Overseeding

**Table 2: Maximum Seasonal Application Rates**

Do not exceed the following amounts of product per Acre per season.

Use Site	Maximum Gallons 3336 PLUS per Acre per Season	Fluid Ounces 3336 PLUS per 1,000 sq ft	Comments
Residential or Public Areas	5.44 Gallons	16 fl oz	4 Apps @ 2-4 oz
Golf Course Tees, Greens, Aprons	10.88 Gallons	32 fl oz	
Golf Course Fairways - Except Florida	2.73 Gallons	8 fl oz	1 App @ 8 oz, OR 2 Apps @ 4 oz, OR 4 Apps @ 2 oz
Golf Course Fairways - Florida Only	1.36 Gallons	4 fl oz	Florida Only- During Overseeding 1 App @ 4 oz, OR 2 Apps @ 2 oz



Diseases Controlled	Rate of 3336 PLUS fl oz / 1,000 sq ft	Remarks
<b>Anthraxnose, basal</b> <i>Colletotrichum graminicola</i>	4-8	For prevention in historic areas of disease pressure, apply twice at 14 day (d) intervals when soil temperature reaches 60°F. For curative control, apply when disease first appears and continue at 14 -28 d intervals. Rotations and/or tank mix combinations with chlorothalonil or triadimefon can be utilized.
<b>Anthraxnose, foliar</b> <i>Colletotrichum graminicola</i>	2-4	
<b>Bermudagrass Decline</b> <i>Gaeumannomyces graminis</i> var. <i>graminis</i> <b>Take-All-Patch</b> <i>Gaeumannomyces graminis</i> var. <i>avenae</i>	4-8	Apply in mid-July or when disease symptoms first appear and repeat at 14-28 d intervals for suppression. Use higher rates under most severe disease expression. Water treatment into active root zone. Follow proper agronomic recommendations to maintain plant vigor.
<b>Cool Season Brown Patch</b> <i>Rhizoctonia cerealis</i> <b>Necrotic Ring Spot</b> <i>Leptosphaeria korrea</i>	4-8	For prevention, apply in fall before turf has stopped all growth activity. Apply second application in early spring when soil temperatures reach 55-60°F or when disease first appears. For curative action, apply when disease first appears in early spring and continue at 14-28 day intervals. Water treatment into active root zone.
<b>Coprinus Snow Mold</b> <i>Coprinus psychromorbidus</i>	4-8	Apply 2 treatments at 21 d intervals in late fall to early winter, with the last application made just prior to first permanent snow cover. Rotations and/or tank mix combinations with PCNB can be utilized.
<b>Dollar Spot</b> <i>Moellerodiscus, Lanzia</i> <b>Large Brown Patch</b> <i>Rhizoctonia solani</i> <b>Ascochyta Leaf Blight</b> <i>Ascochyta</i> <b>Copper Spot</b> <i>Gloeocercospora sorghi</i> <b>Fusarium Patch</b> <i>Fusarium nivale</i> <b>Red Thread</b> <i>Corticium fuciforme</i> <b>Zoysia Patch</b> <i>Rhizoctonia solani</i>	2-4	Apply when disease first appears and continue at 14-28 d intervals. Rotations and/or tank mix combinations with chlorothalonil, iprodione, or mancozeb (Protect DF™) can be utilized.
<b>Fusarium Blight</b> <i>Fusarium roseum, F. triticum</i>	4-8	Apply when disease first appears at 14-28 d intervals.
<b>Gray Leaf Spot (Blast)</b> <i>Pyricularia grisea</i>	4-8	Apply preventative application before expected period of disease development. Continue applications at 14-28 d intervals.
<b>Leaf Spot</b> <i>Drechslera</i> <b>Crown, and</b> <b>Root Diseases</b> <i>Bipolaris, Curvularia, Exserohilum</i>	4-8	Apply when disease first appears and make applications at 14-28 d intervals as needed. Rotations and/or tank mix combinations with chlorothalonil, iprodione, or mancozeb (Protect DF™) are recommended under severe conditions.
<b>Pink Snow Mold</b> <i>Microdochium nivale</i>	2-4	Apply in late fall to early winter before turf has stopped all growth activity. A second application may be used in combination with chlorothalonil, PCNB, or thiram Spotrete™ at recommended rates before snow cover or during spring thaw.



Diseases Controlled	Rate of 3336 PLUS fl oz / 1,000 sq ft	Remarks
<b>Rusts</b> <i>Puccinia, Uromyces</i>	4-8	Apply at 14-28 d intervals when disease first appears. Rotations and/or tank mix combinations with chlorothalonil or mancozeb (Protect DF™) are recommended.
<b>Stripe Smut</b> <i>Ustilago striiformis</i>	4-8	Apply at 14-28 d intervals when disease first appears. For prevention, apply in spring and fall.
<b>Summer Patch</b> <i>Magnaporthe poae</i>	4-8	For prevention, apply 3 applications starting late April or early May during 21 d intervals. Rotations and/or tank mix combinations may be used as part of the three application program. For suppression, apply at 14-28 d intervals when disease first appears. Water treatment into active root zone.
<b>Bentgrass Dead Spot</b>	4-6	For prevention, apply in early June or based upon local extension service recommendations. Apply at 14 d intervals. Rotations and/or tank mix combinations may be used for season long disease prevention.



#### LIMITED WARRANTY AND DISCLAIMER

CLEARY CHEMICALS LLC 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. To the extent consistent with applicable law, CLEARY CHEMICALS LLC makes no other expressed or implied warranty of fitness or merchantability or any other expressed or implied warranty. To the extent consistent with applicable law, neither CLEARY CHEMICAL nor seller shall 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 costs, or other expenses incurred in planting or harvesting. CLEARY CHEMICAL 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 CLEARY CHEMICALS LLC.

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# Cleary MATERIAL SAFETY DATA SHEET

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Please read the entire document. This Material Safety Data Sheet contains important environmental, health and toxicology information for your employees, and anyone who will use, transport, store, dispose of or handle this product. Please make sure this information is given to them. It also contains information to help you meet community right-to-know/emergency response reporting requirements under SARA Title III and many other laws. If you resell this product, this MSDS must be given to the buyer or the information contained herein must be incorporated in your MSDS.

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 3336 PLUS  
**EPA REGISTRATION NUMBER(S):** 1001-78  
**CHEMICAL NAME:** Dimethyl-4,4' - o-phenylenebis-3-thioallophanate (23564-05-8)  
**SYNONYM:** Thiophanate-methyl  
**GENERAL USE:** Turf and ornamental fungicide

### COMPANY

Cleary Chemicals, LLC  
 178 Ridge Road, Suite A  
 Dayton, New Jersey 08810

### EMERGENCY TELEPHONE NUMBERS

CLEARY CHEMICAL CORP.    PROSAR:  
**M-F 9-5 EST**                    **(800) 324-7598**  
**(800) 524-1662 OR**            CHEMTREC 24 HOUR:  
**(732) 329-8399**                **(800) 424-9300**

## SECTION 2: INFORMATION ON INGREDIENTS

Active Ingredient(s) Hazardous Inert Ingredient(s)	/ % by Wt.	CAS#	ACGIH TLV	OSHA PEL
Thiophanate-methyl	19.8	23564-05-8	NL	NA

## SECTION 3: HEALTH HAZARD INFORMATION

### Acute Health Hazards

**Ingestion:** May cause irritation.  
**Eye Contact:** May cause irritation.  
**Skin Contact:** May cause irritation.  
**Inhalation:** N/A  
**Chronic Effects of Overexposure:** Irritation of eyes, nose throat, dermatitis, headache and nausea.

NDA = No Data Available NA = Not Applicable



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#### SECTION 4: FIRST AID MEASURES

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

**Eye Contact:** 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 poison control center or doctor for further treatment advice.

**Skin Contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.

**Inhalation:** 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 poison control center or doctor for treatment advice.

#### SECTION 5: FIRE AND EXPLOSION INFORMATION

**Flash Point (Method):** NA

**Flammable Limits (vol & in air):** NA

**Autoignition Temperature:** NA

**Extinguishing Media:** Dry chemical, carbon dioxide, dry chemical foam.

**Special Fire Fighting Procedures:** Self-contained breathing apparatus, water to cool heated drums.

**Unusual Fire and Explosion Hazards:** None

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Steps to be Taken in Case Material is Released or Spilled:** Absorb with sand or inert materials. Sweep or scoop up and remove. Wash area thoroughly with water. Dispose of in compliance with all state, federal and local laws.

#### SECTION 7: HANDLING AND STORAGE

**Precautions to be Taken in Handling and Storing:** Store in sealed container in cool, dry area. Keep away from children.

#### SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

**Protective Clothing:** Long sleeve shirt, long pants, or coveralls, water resistant boots.

**Eye Protection:** Chemical goggles or safety glasses with side shields recommended when handling concentrate.

**Ventilation:** Use product outdoors or in a well ventilated area.

**Respiratory Protection:** None required under normal use.

**Other:** Protective barrier cream may be applied on exposed skin areas.

NDA = No Data Available NA = Not Applicable



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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Off-White Suspension. Slight ammonia odor.
Boiling Point:	212° F
Vapor Pressure (@20° C):	less than 2 mm Hg
pH:	6.5-7.5
Melting Point:	Not determined
Freezing Point:	23° F
Specific Gravity (25° C):	1.25 @ 20° C
Vapor Density:	N/A
Evaporation Rate:	Not determined
Solubility in Water:	Insoluble (dispersible)

**SECTION 10: STABILITY AND REACTIVITY****Stability:** Stable at normal conditions**Incompatible Materials:** Highly alkaline materials, oxidizing agents, lime sulfur, bordeaux mixture, copper compounds**Conditions to Avoid:** Extreme heat**Hazardous Decomposition:** oxides or carbon, nitrogen and sulfur**Hazardous Polymerization:** Will not occur**SECTION 11: TOXICOLOGICAL INFORMATION****Oral LD50:** >6000 mg/kg**Dermal LD50:** >2000 mg/kg**NOEL:** 1600 ppm in diet for 180 days**Teratogenicity:** No teratogenicity at 1000 mg/kg/day**Mutagenicity:** Ames, Mammalian somatic, cytogenicity, Dominant lethal, DNA damage repair all test negative**SECTION 12: ECOLOGICAL INFORMATION**

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 contaminate water by disposal of equipment washwaters. Do not allow to drift, drain, or flush equipment onto non-target areas.

NDA = No Data Available NA = Not Applicable

**3336 PLUS™****Page 4 of 4****SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods:** Dispose of in accordance with all applicable federal, state and local regulations. Improper disposal of excess pesticide is a violation of federal law. If these wastes cannot be disposed of by intended use according to label instruction, contact the appropriate agency in your state or the nearest EPA regional office for guidance.

**SECTION 14: TRANSPORTATION INFORMATION**

**DOT Hazard Class:** Fungicide, Agricultural, NOI  
**Hazardous Substance:** Not DOT or OSHA regulated

**SECTION 15: REGULATORY INFORMATION**

**RCRA Waste Number:** N/A  
**California Prop 65:** This product can be found on the California List of Developmental Toxins Thiophanate -methyl  
**NFPA Ratings:** Flamability: 0 Reactivity: 0 Health: 1  
**EPA SARA Title III Data:** NA  
**Section 302 Substances:** NA  
**Section 311/312/313 Hazardous Categories:** NA

**SECTION 16: OTHER INFORMATION**

Please note: Cleary Chemical Corp. believes that the information and recommendations contained herein are accurate as of the date hereof. The information provided herein applies only to the specific product designated and may not be valid where said product is used in combination with any other material or in any process. It is the users responsibility to determine the suitability of the information for their purposes. No warranty of fitness for any particular purpose, warranty of merchantability, or any other warranty, expressed or implied, is made concerning the information provided.

<b>Reason for issue:</b>	Reprint
<b>Prepared by:</b>	R. Fletcher and David Miles
<b>Effective date:</b>	09.15.09
<b>Replaces:</b>	02.01.05



**CLEARY CHEMICALS LLC**  
178 Ridge Road, Suite A  
Dayton, NJ 08810-1501  
800-524-1662  
<http://www.clearychemical.com/>

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NDA = No Data Available NA = Not Applicable





For the prevention and control of turf diseases. Not for homeowner use.

**ACTIVE INGREDIENT:**  
 Thiophanate-methyl (dimethyl 4,4'-o-phenylenebis[3-thioallophanate]) ..... 19.4%

**OTHER INGREDIENTS** ..... 80.6%

TOTAL .....100%

\*This product contains 2.0 lbs thiophanate methyl per gallon.

**KEEP OUT OF REACH OF CHILDREN**

**WARNING**

**FIRST AID**

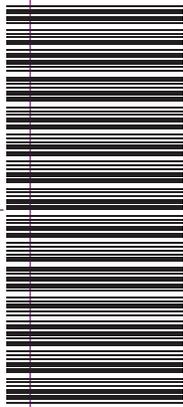
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor for treatment advice.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>IF INHALED</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call poison control center or doctor for treatment advice.</li> </ul>

For emergency information, call (732) 329-8399 or your poison control center. For medical or transportation emergencies only call 24 hours a day CHEMTREC (800)424-9300. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

EPA Reg. No. 1001-78  
 EPA Est. No. 70815-GA-1  
 CLEARY CHEMICALS LLC  
 178 Ridge Rd., Suite A  
 Dayton, NJ 08810-1501  
 732-329-8399  
 800-524-1662



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**NET CONTENTS:  
 2.5 Gallons**