



CLEARY MATERIAL SAFETY DATA SHEET

3336 WP

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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 WP
EPA REGISTRATION NUMBER(S): 1001-63
CHEMICAL NAME: Dimethyl-4-4'-o-phenylenebis-3-thioallophanate
SYNONYM: Thiophanate-methyl
GENERAL USE: Turf and ornamental fungicide
FRAC GROUP CODE: 1

COMPANY

Cleary Chemical LLC
 11901 S. Austin Avenue
 Alsip, IL 60803

EMERGENCY TELEPHONE NUMBERS

CLEARY CHEMICAL LLC M-F 9-5 EST (800) 345-3330	PROSAR: (877) 325-1840 CHEMTREC 24 HOUR: (800) 424-9300
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SECTION 2: INFORMATION ON INGREDIENTS

Active Ingredient(s)/ Hazardous Inert Ingredient(s)	% by Wt.	CAS#	ACGIH TLV	OSHA PEL
Dimethyl-4-4'-o-phenylenebis- 3-thioallophanate	50%	23564-05-8	NDA	NDA

SECTION 3: HEALTH HAZARD INFORMATION

Caution - Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Harmful if swallowed, absorbed through skin or inhaled. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling.

SECTION 4: FIRST AID MEASURES

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 further treatment advice.

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

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SECTION 4: FIRST AID MEASURES (continued from page 1)

If Swallowed: Call 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 the 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 when going for treatment. For 24-Hour Emergency Assistance Call Chemtrec 1-800-424-9300.

SECTION 5: FIRE AND EXPLOSION INFORMATION

Flash Point (Method): NA

Flammable Limits (vol % in air): NA

Autoignition Temperature: NA

Extinguishing Media: Carbon dioxide, foam, water, earth, dry chemical.

Special Fire Fighting Procedures: Self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Released or Spilled: Sweep up and dispose of in compliance with all federal, state and local laws.

SECTION 7: HANDLING AND STORAGE

Precautions to be Taken in Handling and Storing: Store in original sealed containers in a cool dry area not accessible to children or unauthorized persons.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Clothing: Long sleeve shirt, long pants or coveralls, shoes plus socks.

Eye Protection: Where there is potential for eye contact, chemical goggles or safety glasses with side shields are recommended.

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	fine, light tan powder
Boiling Point:	NA
Vapor Pressure (@25° C):	NA
pH:	6.5-8.0
Melting Point:	181.5° - 182.5° F
Freezing Point:	NA
Bulk Density (25° C):	16 - 19 lb./cu.ft.
Vapor Density:	NA
Evaporation Rate:	NA
Solubility in Water:	Insoluble (dispersible)
% VOC:	0

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable

Incompatible Materials: Highly alkaline materials, oxidizing agents, lime sulfur, bordeaux mixture, copper compounds.

Conditions to Avoid: NA

Hazardous Decomposition: Thermal decomposition generates oxides of nitrogen, sulfur, and carbon.

Hazardous Polymerization: NA

SECTION 11: TOXICOLOGICAL INFORMATION

Oral (Acute) LD50: > 7500 mg/kg (male rat); > 6400 mg/kg (female rat)

Dermal (Acute) LD50: > 10,000 mg/kg (rabbit)

Inhalation (acute): > 20.8 mg/L (LC50 rat 4 hour)

Chronic (oral): No oncogenicity, no observed effect level, 160 ppm in diet for two years (rat) and 50 mg/kg/day in single dose for two years (dog).

NOEL:

Subchronic (oral): No observable effect level, 1,600 ppm in diet for 180 days (rats and mice).

Neurotoxicity: No delayed neurotoxicity or cholinesterase inhibition.

Oncogenicity: No oncogenicity to mice consuming diets containing levels as high as 640 ppm over a two year period.

Teratogenicity: No teratology to rats or mice dosed throughout pregnancy with levels as high as 1,000 mg/kg/day.

Reproductive Toxicity: No effect on spermatogenesis, testosterone assimilation. Three generation study showed no evidence of effects on fertility, fecundity or offspring.

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 apply, allow to drift, or drain or flush equipment onto non-target areas.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Improper disposal of excess pesticide, spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by intended use according to label instructions, contact the appropriate agency in your state or the nearest EPA Regional Office for guidance.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. When all water soluble bags are used, dispose of empty foil package in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Home Use Disposal: If empty: Nonrefillable container. Do not reuse or refill this container. 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.

SECTION 14: TRANSPORTATION INFORMATION**DOT**

< 20 pounds per completed package

Non Regulated

≥ 20 pounds but < 882 pounds per completed package

UN 3077, Environmentally hazardous substances, solid, n.o.s., 9, III (thiophanate-methyl), RQ

continued on page 4

SECTION 14: TRANSPORTATION INFORMATION (continued from page 3)

≥ 882 pounds per completed package

UN 3077, Environmentally hazardous substances, solid, n.o.s., 9, III (thiophanate-methyl), Marine Pollutant, RQ

IMDG

UN 3077, Environmentally hazardous substances, solid, n.o.s., 9, III (thiophanate-methyl), Marine Pollutant, RQ

IATA

Non Regulated

SECTION 15: REGULATORY INFORMATION

EPA SARA Title III Data: Positive rating for acute hazard

Section 302 Substances: NA

RCRA Waste Number: U409

Section 311/312 Hazardous Categories: NA

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)

Immediate Health: Yes

Delayed Health: Yes

Fire: No

Reactive: No

Sudden Pressure: No

Section 313 Toxic Chemicals: This product does contain chemical(s) which are defined as toxic chemicals under and subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. Thiophanate-Methyl

CERCLA RQ: 10 lb.

California Prop 65: Developmental Toxins

This product does contain the following chemical as indicated below, currently on the California list of Developmental Toxins:

Thiophanate-methyl

NFPA Ratings: Flammability: 0 Reactivity: 0 Health: 1

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.

Reason for issue:	update
Prepared by:	C. Hitchcock
Effective date:	4.08.13
Replaces:	6.02.05