



CLEARY MATERIAL SAFETY DATA SHEET

3336 PLUS™

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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 Chemical
178 Ridge Road, Suite A
Dayton, New Jersey 08810

EMERGENCY TELEPHONE NUMBERS

CLEARY CHEMICAL CORP. M-F 9-5 EST (800) 524-1662 OR (732) 329-8399	PROSAR: (800) 324-7598 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
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.

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.

First Aid Measures continued on next page.

Effective Date: 2.1.05

NDA = No Data Available NA = Not Applicable

SECTION 4: FIRST AID MEASURES (continued)

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 CONTROLS/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.

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

Effective Date: 2.1.05

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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 wash-waters. Do not allow to drift, drain, or flush equipment onto non-target areas.

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.

Reason for issue:	Initial Registration
Prepared by:	R. Fletcher and David Miles
Effective date:	2.1.05
Replaces:	NA



CLEARY CHEMICAL CORPORATION

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