

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

Product Name: 3336 F

Cleary Product Code: 4173 (1 qt),
4171 (1 gal),
4172 (2.5 gal)

E.P.A. Registration Number: 1001-69

Chemical Name: Dimethyl-4-4'-o-phenylenebis-3-thioallophanate

Synonyms: Thiophanate methyl

INGREDIENT INFORMATION

Active Ingredient (CAS #)	Percent
Dimethyl-4-4'-o-phenylenebis-3-thioallophanate (23564-05-8)	41.25%
Inert Ingredients	58.75%

Exposure Limits

TLV's and PEL's have not been established for the listed materials.

HEALTH HAZARD DATA

Inhalation: N/A

Eye Contact: May cause transient irritation.

Skin Contact: Non-irritating, not a known sensitizer.

Chronic Effects Of Overexposure: Irritation of eyes, nose, and throat, dermatitis, headache, and nausea.

EMERGENCY AND FIRST AID PROCEDURES

Ingestion: Drink 1-2 glasses of water, and induce vomiting as soon as possible by tickling the back of the throat with the finger or similar blunt object. Seek medical attention immediately. Do not induce vomiting of an unconscious person.

Skin Contact: Wash exposed area of skin with soap and warm water. Contaminated clothing including footwear should be thoroughly cleaned before reuse.

Eye Contact: Flush eyes with plenty of water for at least 15 minutes. Seek medical attention immediately.

Inhalation: Remove to fresh air.

FIRE & EXPLOSION DATA

Flash Point (Method): N/A

Flammable Limits (vol % in air): N/A

Autoignition Temperature: N/A

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

Special Fire Fighting Procedures: Self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: None

ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: Absorb with sand or inert material, sweep or scoop up and remove, flush area with water. Dispose of in compliance with all federal, state and local laws.

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.

EXPOSURE CONTROLS/ PERSONAL PROTECTION

Protective Clothing: Long sleeve shirt, 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: Dust mask or OSHA approved respirator in confined spaces.

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

PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 212°F

Melting Point: N/A

Freezing Point: 23°F

Vapor Pressure (@ 25°C): 7.12 x 10⁻⁸ mm Hg

% VOC: Zero

Evaporation Rate: N/A

Solubility In Water: Insoluble (dispersible)

Specific Gravity: 1.198 @ 20/21°C

Appearance And Odor: Off-white liquid suspension, faint sulfur odor.

REACTIVITY HAZARD DATA

Stability: Stable

Conditions To Avoid: Extreme heat

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

Hazardous Polymerization: N/A

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

3336™ F



CLEARY CHEMICAL CORPORATION
178 RIDGE ROAD
DAYTON, NJ 08810-1501

EMERGENCY PHONE NUMBERS:
M-F 9AM-5PM EDT
800-524-1662 • 732-329-8399
24 Hour CHEMTREC
800-424-9300

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TOXICOLOGICAL INFORMATION

TOXICITY DATA: LD₅₀

Oral (acute): > 6000 mg/kg (rat)

Dermal (acute): > 2,000 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).

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.

ECOLOGY DATA

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.

DISPOSAL

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.

TRANSPORTATION INFORMATION

DOT Shipping Description: Fungicide, Agricultural, Solid, N.O.I.

DOT Hazard Classification: Not DOT regulated

DOT Label Requirements: N/A

OSHA Hazard Classification: N/A

Reportable Quantity: N/A

Hazardous Substance: N/A

UN Identification Number: N/A

REGULATORY INFORMATION

EPA SARA TITLE III DATA: N/A

SECTION 302 Substances: N/A

RCRA Waste Number: N/A

SECTION 311/312 Hazardous Categories: N/A

Immediate Health: No

Delayed Health: No

Fire: No

Reactive: No

Sudden Pressure: No

SECTION 313 TOXIC CHEMICALS: N/A

CERCLA RO: N/A

CALIFORNIA PROP 65: Developmental Toxin

This product does contain the following chemical(s), as indicated below, currently on the California List of Developmental Toxins.

Thiophanate methyl

NFPA RATINGS

Flammability: 0

Reactivity: 0

Health: 1



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