

# MATERIAL SAFETY DATA SHEET

## PRODUCT IDENTIFICATION

**Product Name:** 3336 G

**Cleary Product Code:** 4161 (30 lb. Bag)

**Chemical Name:** Dimethyl-4-4'-o-phenylenebis-3-thioalophanate

**E.P.A. Registration Number:** 1001-70

**Synonyms:** Thiophanate methyl

## INGREDIENT INFORMATION

**Hazardous Ingredients (CAS #) . . . . .Percent**

Dimethyl-4-4'-o-phenylenebis-3-thioalophanate (23564-05-8) . . . . .2.08%

**Inert Ingredients** . . . . .97.92%

### Exposure Limits

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

## HEALTH HAZARD DATA

**Inhalation:** May cause irritation, coughing.

**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.

**Other Toxic Effects:** N/A

## 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.

**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: Sweep up and 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.

**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:** N/A

**Melting Point:** 181.5-182.5°C

**Freezing Point:** N/A

**Bulk Density:** 30 lbs./cu. ft.

**Vapor Pressure (@ 20°C mm Hg):** N/A

**% Volatile:** Zero

**Evaporation Rate:** N/A

**Solubility In Water:** Insoluble (dispersible)

**Appearance And Odor:** Light tan granule, faint sulfur odor.

## REACTIVITY HAZARD DATA

**Stability:** Stable

**Conditions To Avoid:** N/A

**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<sup>G</sup>



**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):** 7500 mg/kg males, 6640 mg/kg females (rat)

**Dermal (acute):** > 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).

**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, 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, NOI.

**DOT Hazard Classification:** Not DOT regulated

**UN Identification Number:** N/A

**OSHA Hazard Classification:** N/A

**Reportable Quantity:** N/A

**Hazardous Substance:** N/A

**DOT Label Requirements:** N/A

## REGULATORY INFORMATION

**EPA SARA TITLE III DATA:** Positive rating for acute hazard.

**SECTION 302 Substances:** N/A

**RCRA Waste Number:** N/A

**SECTION 311/312 Hazardous Categories:** N/A

**Immediate Health:** N/A

**Delayed Health:** N/A

**Fire:** N/A

**Reactive:** N/A

**SECTION 313 TOXIC CHEMICALS:** N/A

**CERCLA RQ:** N/A

**CALIFORNIA PROP 65:** N/A

**NFPA RATINGS**

**Flammability:** 0

**Reactivity:** 0

**Health:** 1



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