

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: 3336 DG LITE

**EPA Reg. No.:** 1001-70 **Product Type:** Fungicide

Company Name: Cleary Chemicals, LLC

11901 S. Austin Avenue

Alsip, IL 60803 1-800-345-3330

Telephone Numbers: For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident,

Call CHEMTREC Day or Night: 1-800-424-9300 For Medical Emergencies Only, Call 1-877-325-1840

This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not exactly the same as on the FIFRA label. Certain sections are superseded by federal law governed by EPA for a registered pesticide. Please see Section 15. REGULATORY INFORMATION for explanation.

## 2. HAZARDS IDENTIFICATION

#### **HEALTH HAZARDS:**

Acute toxicity, inhalation

Category 4

Skin irritation

Eye irritation

Category 2

Eye irritation

Category 2

Specific target organ toxicity – Repeated exposure

Category 2

#### **ENVIRONMENTAL HAZARDS:**

Hazardous to aquatic environment, acute Category 2
Hazardous to aquatic environment, chronic Category 2

#### **SIGNAL WORD:**

WARNING

#### **HAZARD STATEMENTS:**

Harmful if inhaled. Causes skin irritation. Causes eye irritation. May cause damage to organs (liver and thyroid) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.







#### PRECAUTIONARY STATEMENTS:

Do not breathe dust. Use only outdoors or in well-ventilated area. Wear protective gloves/eye protection/face protection.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Avoid release to the environment. Collect spillage.

Dispose of contents/container in accordance with local/regional/national/international regulations.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENTSCAS NO.% BY WEIGHTThiophanate-methyl23564-05-82.0 - 2.2Other IngredientsTrade SecretTrade Secret

**Synonyms:** Thiophanate-methyl; T-Methyl; dimethyl [(1,2-phenylene)bis (iminocarbonothioyl)]

bis(carbamate)

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

## 4. FIRST AID MEASURES

**If Swallowed:** Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. 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.

**If in Eyes:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for 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 to 20 minutes. Call a poison control center or doctor for treatment advice.

**Most Important symptoms/effects, acute and delayed**: Eye exposure may cause mild irritation. Skin exposure may cause slight irritation.

Indication of Immediate medical attention and special treatment if needed, if necessary: None expected.

#### 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Use extinguishing media suitable for surrounding materials. Dry chemical, carbon dioxide, foam, water spray or fog.

**Special Fire Fighting Procedures:** Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full fire-fighting turn out gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

**Unusual Fire and Explosion Hazards:** If water is used to fight fire, contain runoff, using dikes to prevent contamination of water supplies. Dispose of fire control water later.

Hazardous Decomposition Materials (Under Fire Conditions): May produce gases such as oxides of carbon and nitrogen.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

**Environmental Precautions:** Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

**Methods for Containment:** Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal.

**Methods for Cleanup and Disposal:** Avoid creation of dusty conditions. Scrape up and place in appropriate closed container. Wash entire spill area with a detergent slurry, absorb and sweep into container for disposal. Decontaminate tools and equipment following cleanup. See Section 13: DISPOSAL CONSIDERATIONS for more information.

**Other Information:** Large spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

#### 7. HANDLING AND STORAGE

**HANDLING**: Avoid contact with eyes or clothing. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/Personal Protective Equipment (PPE) immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**STORAGE:** Store in the original container in a dry, temperature controlled area. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling, contain/re-capture spillage and use in accordance with instruction below or dispose of in accordance with the Pesticide Disposal Instructions.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

# **Engineering Controls:**

Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation.

**Eye/Face Protection:** Not normally required. To avoid contact with eyes, wear chemical goggles or shielded safety glasses. An emergency eyewash or water supply should be readily accessible to the work area.

**Skin Protection:** To avoid contact with skin, wear long pants, long-sleeved shirt, socks and shoes. An emergency shower or water supply should be readily accessible to the work area.

**Respiratory Protection:** Not normally required. If vapors or mists exceed acceptable levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for use against pesticides.

**General Hygiene Considerations:** Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored; 2) wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

## **Exposure Guidelines:**

Component	OSHA		ACGIH		
	TWA	STEL	TWA	STEL	Unit
Thiophanate-methyl	NE	NE	NE	NE	NE
Other Ingredients	NE	NE	NE	NE	NE

NE = Not Established

Appearance:

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Off-white granules

Odor: No data available Odor threshold: No data available pH: 5.11 Melting point/freezing point: No data available Initial boiling point and boiling range No data available Flash point: No data available **Evaporation rate:** No data available Flammability (solid, gas): No data available **Upper/lower flammability or explosive limits:** No data available Vapor pressure: No data available Vapor density: No data available

Relative density: 0.469 g/ml (pour) 0.489 g/ml (tap)

Solubility(ies): Negligible

Partition coefficient: n-octanol/water:No data availableAutoignition temperature:No data availableDecomposition temperature:No data availableViscosity:No data available

**Note:** Physical data are typical values, but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.

#### 10. STABILITY AND REACTIVITY

Reactivity: Not reactive

Chemical Stability: This material is stable under normal handling and storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

**Conditions to Avoid:** Excessive heat. Do not store near heat or flame. **Incompatible Materials:** Strong oxidizing agents: bases and acids.

Hazardous Decomposition Products: Under fire conditions may produce oxides of carbon, nitrogen and

sulfur.

## 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Skin contact, Eye contact, Inhalation

Symptoms of Exposure:

**Eye Contact:** Mildly irritating based on toxicity studies.

**Skin Contact:** Slightly toxic and slightly irritating based on toxicity studies.

**Ingestion:** Slightly toxic if ingested based on toxicity studies. **Inhalation:** Low inhalation toxicity based on toxicity studies.

Delayed, immediate and chronic effects of exposure: None reported.

**Toxicological Data:** 

Data from laboratory studies conducted are summarized below:

Oral: Rat LD<sub>50</sub>: > 5,000 mg/kg (female) Dermal: Rat LD<sub>50</sub>: > 5,000 mg/kg

Inhalation: Rat 4-hr LC<sub>50</sub>: <2.06 mg/L (no mortalities at highest dose tested)

Eye Irritation: Rabbit: Mildly irritating

Skin Irritation: Rabbit: Slightly irritating (PDII = 0.4)

Skin Sensitization: Not a contact sensitizer in guinea pigs following repeated skin exposure.

# **Subchronic (Target Organ) Effects:**

**Carcinogenicity / Chronic Health Effects:** Repeated overexposure to thiophanate methyl may cause mild anemia and affect the liver and thyroid. Prolonged overexposure to thiophanate methyl may affect the liver and thyroid. Thiophanate methyl produced dose-dependent increases in benign liver tumors in mice and thyroid tumors in rats.

Reproductive Toxicity: Thiophanate methyl did not cause reproductive toxicity in multi-generation studies in rats.

**Developmental Toxicity:** In a rabbit study with thiophanate methyl, slight skeletal variations and decreased fetal weights were observed at doses that were also toxic to mother animals.

Genotoxicity: There have been some positive and some negative studies, but the weight of evidence is that thiophanate methyl is not mutagenic.

Assessment Carcinogenicity: None listed with ACGIH, IARC, NTP or OSHA.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** 

Data on Thiophanate Methyl Technical:

96-hour LC<sub>50</sub> Bluegill: >41 ppm Bobwhite Quail 8-day Dietary LC<sub>50</sub>: >10,000 ppm

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96-hour LC<sub>50</sub> Rainbow Trout: 8.3 ppm Mallard Duck Oral LD<sub>50</sub>: 4,640 mg/kg 48-hour EC<sub>50</sub> Daphnia: 5.4 ppm 48-hour Honey Bee Contact LD<sub>50</sub>: >100 μg/bee

96-hour LC<sub>50</sub> Mysid: 1.1 ppm

#### **Environmental Fate:**

Thiophanate methyl degrades primarily to MBC whether on foliage, in soil or in water in a matter of days. Both photolysis and hydrolysis are important routes of degradation. MBC is microbially degraded, but stable to aqueous photodegradation, stable to hydrolysis at pH values ranging from 5 to 7 and stable to soil photolysis. Metabolism under aerobic and anaerobic conditions in both soil and water proceeds at a slow rate. Under application conditions, average half-lives are about 20 to 50 days, but may be as short as a few days with repeated use.

## 13. DISPOSAL CONSIDERATIONS

# **Waste Disposal Method:**

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide is a violation of Federal law.

**Container Handling and Disposal:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## 14. TRANSPORTATION INFORMATION

## DOT

# < 480 pounds per completed package

Non Regulated

## ≥ 480 pounds but < 882 pounds per completed package

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

# ≥ 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

# IAT<u>A</u>

Non Regulated

#### 15. REGULATORY INFORMATION

#### **EPA FIFRA INFORMATION**

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION. Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

#### **U.S. FEDERAL REGULATIONS**

TSCA Inventory: This product is exempted from TSCA because it is solely for FIFRA regulated use.

SARA Hazard Notification/Reporting:

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

Immediate and Delayed

# Section 313 Toxic Chemical(s):

Thiophanate-methyl (CAS No. 23564-05-8) 2.0 – 2.2% equivalent by weight in product

## Reportable Quantity (RQ) under U.S. CERCLA:

Thiophanate-methyl (CAS No. 23564-05-8) 10 pounds

#### **RCRA Waste Code:**

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

#### State Information:

Other state regulations may apply. Check individual state requirements.

California Proposition 65: ATTENTION. This product can expose you to chemicals including thiophanate methyl which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>.

#### **16. OTHER INFORMATION**

# National Fire Protection Association (NFPA) Hazard Rating:

Rating for this product: Health: 1 Flammability: 0 Reactivity: 0

Hazards Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-ACCEPTED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of Federal law to use a pesticide product in any manner not prescribed on the EPA-accepted label.

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