




T-Methyl G-Pro 4.5 F

Fungicide

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: T-Methyl G-Pro 4.5 F Fungicide
Active Ingredient: Thiophanate-methyl
Chemical Formula: C₁₂H₁₄N₄O₄S₂

COMPANY IDENTIFICATION:

Gro-Pro LLC
2214 Hwy 44 West
Inverness, FL 34453
UNITED STATES
www.gro-pro.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

| | | |
|--------------------|--------------------|-------|
| Thiophanate-methyl | CAS No. 23564-05-8 | 46.2% |
| Other Ingredients | | 53.8% |

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Causes moderate eye irritation. Harmful if swallowed or inhaled. Harmful if absorbed through skin. Avoid breathing spray mist. Avoid contact with eyes, skin or clothing.

POTENTIAL HEALTH EFFECTS:

EYES: Causes eye irritation.

SKIN: Not known to be a skin irritant. Harmful if absorbed through the skin.

SKIN ABSORPTION: Absorption through intact skin may contribute to exposure.

INGESTION: Mildly toxic by ingestion. The degree of injury will depend on the amount absorbed from the gastrointestinal tract.

INHALATION: Excessive inhalation of dust may cause irritation and coughing.

CHRONIC: No known chronic effects.

4. FIRST AID

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 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 treatment advice.

IF SWALLOWED: Call a 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.

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.

5. FIRE-FIGHTING MEASURES

Flash Point (Method): Not flammable

Flammable Limits: N/A

Fire and Explosion Hazard: None

Means of Extinguishing: Use means suitable for extinguishing surrounding fire.

Fire Fighting Instructions: Evacuate area. Flood with water. To fight larger fires, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full-facepiece operated in the pressure/demand mode.

Hazardous Combustion Products: Toxic oxides of sulfur and nitrogen.

NFPA Codes: Health: 2 Fire: 0 Reactivity: 1



2214 Hwy 44 West
Inverness, FL 34453
www.gro-pro.com

Gro-Pro LLC

Emergency Phone: Chemtrec 800-424-9300

Effective Date: August 24, 2005

EPA Reg. No. 79676-11

REV 0805

6. ACCIDENTAL RELEASE MEASURES

Ventilate area. Cleanup personnel require protective clothing and respiratory protection. Avoid dusting or misting condition during cleanup. If material is uncontaminated, collect and reuse as recommended for product. If contaminated, put in appropriate container and dispose according to local, state or Federal regulations. Keep spills away from drinking supplies. After spill cleanup, flush area with water.

If spilled during storage or handling, absorb with sand or other inert material and dispose of absorbent in accordance with the Pesticide Disposal instructions provided on the product label.

7. HANDLING AND STORAGE

HANDLING: Wash hands before eating, drinking, chewing gum, using tobacco or using toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing.

STORAGE: Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal. Store in original container in a dry, temperature controlled area.

OSHA PEL: None

ACGIH TLV: None

The ACGIH Threshold Limit Values (TLV) for nuisance (inert) dusts containing <1% crystalline silica and no asbestos are: 10 mg/m³ inhalable particulates and 3 mg/m³ respirable particulate. The OSHA TLV is 15 mg/m³ total dust, 5 mg/m³ respirable fraction.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: None required for routine outdoor use. A local exhaust system that captures the contaminant at its source is recommended to prevent dispersion of the contaminant into the workroom air.

PERSONAL PROTECTIVE EQUIPMENT:

When preparing or applying this product, refer to the product label for specific PPE instructions.

Eyes and Face: Use of chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible is recommended. Running water/eyewash station should be available in case material gets in eyes.

Skin: See Protective Clothing below.

Respiratory Protection: None required for routine outdoor use. For exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

Protective Clothing: Refer to the product label for additional information. Clean body-covering clothing should be worn. Applicators and other handlers must wear long-sleeved shirt and long pants, chemical resistant gloves such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils or viton ≥ 14 mils and shoes plus socks.

OTHER USE PRECAUTIONS: Maintain an eye wash station in the area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Opaque liquid

Odor: Characteristic

pH: 5.08

Viscosity: 275.358 cSt (20°C); 146.736 cSt (40°C)

Density: 1.208 g/ml @ 20°C

Solubility in Water: Dispersible

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Extreme heat. Contact with strong oxidizers, acids, bases, and salt suspensions.

CHEMICAL STABILITY: Stable

CHEMICAL INCOMPATIBILITY: Strong oxidizers, acids, bases, and salt suspensions

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY

Oral LD₅₀ (female rat): 1750 mg/kg

ACUTE DERMAL TOXICITY

Dermal LD₅₀ (rat): > 5000 mg/kg

ACUTE INHALATION TOXICITY

Inhalation LC₅₀ (rat): > 2.05 mg/L

EYE IRRITATION

Rabbit: Mildly irritating

SKIN IRRITATION

Rabbit: Slightly irritating

DERMAL SENSITIZATION

Guinea pig: Not a contact sensitizer

ROUTES OF ENTRY: Respiratory tract and gastrointestinal tract.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Persons with pre-existing skin disorders or impaired respiratory function may be more susceptible to the effects of this substance.

CARCINOGENICITY:

IARC: Not listed

NTP: Not listed

OSHA: Not listed

OTHER: (ACGIH) Not listed

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL 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 apply where runoff is likely to occur. Do not contaminate water by disposing of equipment washwaters.

ECOTOXICOLOGICAL INFORMATION: The following ecotoxicity values were obtained for the active ingredient:

FISH TOXICITY

96 hour LC₅₀ (Trout): 8.3 ppm

48 hour LC₅₀ (Daphnia): 5.4 ppm

96 hour LC₅₀ (Sheepshead minnow): 17 ppm

96 hour LC₅₀ (Mysid shrimp): 1.1 ppm

AVIAN TOXICITY

Dietary LC₅₀ (Mallard): > 10,000 ppm

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

DOT HAZARD CLASS OR DIVISION: Not Regulated
U.S. DOT PROPER SHIPPING NAME: N/A
UN NUMBER: N/A
DOT PACKING GROUP: N/A
REPORTABLE QUANTITY: None
MARINE POLLUTANT: Not listed
U.S. SURFACE FREIGHT CLASS: Agricultural Fungicides, Liquid, NOIBN

15. REGULATORY INFORMATION

FIFRA –
All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act. The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide.

CERCLA REPORTABLE QUANTITY –
Thiophanate-methyl: 1 lb.

SARA Title III – Section 302 Extremely Hazardous Substances
Not listed

SARA Title III – Section 311 Hazard Categories
Immediate

SARA Title III – Section 312 Threshold Planning Quantity
The threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

SARA Title III – Section 313 Reportable Ingredients
Thiophanate-methyl (23564-05-8)

CALIFORNIA PROP 65 STATUS –
This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

16. OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

DISCLAIMER:

Gro-Pro LLC believes the information and recommendations provided above to be accurate. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided above relates only to the specific product designated and may not be applicable where such product is used in combination with any other materials or in any process. Use of this product is regulated by the U.S. Environmental Protection Agency (EPA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Additionally, as the conditions and methods of use are beyond the control of Gro-Pro LLC, Gro-Pro expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.