



# Safety Data Sheet

Report Date 20-Nov-17

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## 1. Identification

**Product Name** : Omni Brand T-Methyl 4.5 F Fungicide  
**Synonyms** : Thiophanate-methyl  
**Product Use** : Fungicide  
**Manufacturer/Supplier** : Helena Chemical Company  
**Address** : 225 Schilling Blvd. Collierville, TN 38017  
**General Information** : 901-761-0050  
**Transportation Emergency Number** : CHEMTREC:800-424-9300

## 2. Hazard Identification



**Signal Word** : Warning  
**Skin Irritation** : Causes mild skin irritation  
**Eye Irritation** : Causes mild skin irritation  
**Acute Toxicity Oral** : Oral LD50 (rat) > 5,000 mg/kg  
**Acute Toxicity Dermal** : Dermal LD50 (rat) > 5,050 mg/kg  
**Hazard Categories** : Oral/Dermal/Inhalation Toxicity-5/5/4; Eye/Skin Irritation-2B/3  
**Hazard Statement** : May be harmful if swallowed  
May be harmful in contact with skin  
Harmful if inhaled  
Causes eye irritation  
Causes mild skin irritation  
Toxic to aquatic life

## 3. Composition / Information on Ingredients

| Component          | CAS Number    | Weight % |
|--------------------|---------------|----------|
| Thiophanate-methyl | 23564-05-8    | 46.2     |
| Other ingredients  | Non-hazardous | 53.8     |

## 4. First Aid Measures

**Eye** : 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.

**Skin** : 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.

**Inhalation** : Move person to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**Ingestion** : 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 if unconscious.

**Indication of Immediate Medical Attention and Special Treatment Needed** : Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

## 5. Fire Fighting Measures



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- Extinguishing Media** : Use water fog, foam, dry chemical or carbon dioxide extinguishing agents. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.
- Specific Hazards Arising from the Chemical** : May produce toxic fumes.
- Special Fire Fight Proc** : Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water/fire fighting water; do not allow to enter drains or waterways.

### 6. Accidental Release Measures

- Personal Precautions** : Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective equipment and clothing.
- Protective Equipment** : Wear long-sleeved shirt, long pants, shoes, socks, chemical-resistant gloves made of any waterproof material, and a chemical-resistant apron.
- Emergency Procedures** : Control spill at the source and prevent material from entering soil, sewers, waterways or low areas. Large spills to soil or similar surfaces may require removal and disposal of topsoil. Contain contaminated water/fire fighting water.
- Methods and Materials for Containment and Cleanup** : Pump free liquid into suitable closed container for disposal. After decontamination, spill area can be washed with water. Collect washwater for approved disposal. Decontaminate tools and equipment following cleanup.

### 7. Handling and Storage

- Precautions for Safe Handling** : Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Conditions for Safe Storage** : Store in the original container in a dry 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, absorb with sand or other inert material and dispose of absorbent in accordance with applicable regulations.

### 8. Exposure Controls / Personal Protection

- TLV/PEL** : Not established
- Appropriate Engineering Controls** : Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.
- Personal Protective Equipment** : Wear long-sleeved shirt, long pants, shoes, socks, chemical-resistant gloves made of any waterproof material, and a chemical-resistant apron when handling this product.

### 9. Physical and Chemical Properties

- Odor/Appearance** : Light tan liquid; faint sulfur odor.
- Flash Point, °F** : >94 Degrees C.
- Boiling Point, °F** : No information found
- Melting Point(Freezing point), °C** : No information found
- Vapor Pressure, mm Hg @ 20 °C** : No information found
- Vapor Density** : No information found
- Solubility in Water** : No information found
- Molecular Formula** : Not applicable, formulated mixture.



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Density, g/mL @ 25 °C : 1.175-1.210  
Evaporation Rate(Butyl Acetate = 1) : No information found  
Octanol/Water Partition Coefficient : No information found  
pH : 6.0 to 7.0 (5%)  
Flammable Limits (approximate volume % in air) : No information found  
Auto-ignition Temperature : Not specified.  
Decomposition temperature : No information found

### 10. Stability and Reactivity

Reactivity : No hazardous reactions should occur.  
Chemical Stability : Stable  
Hazardous Decomposition Products : When thermally decomposed, may release oxides of carbon, nitrogen and sulfur.  
Hazardous Polymerization : Will not occur.  
Conditions to Avoid : Avoid excessive heat.  
Incompatible Materials : Strong oxidizing agents.

### 11. Toxicological Information

Acute Toxicity (Oral LD50) : >5,000 mg/kg (rat). May be harmful if swallowed.  
Acute Toxicity (Dermal LD50) : >5,050 mg/kg (rat). May be harmful in contact with skin.  
Acute Toxicity Inhalation LC50 : >2.33 mg/L/4 hour (rat). Harmful if inhaled.  
Likely Routes of Exposure : Inhalation, skin, eyes, ingestion.  
Skin Irritation : Slightly irritating. Causes mild skin irritation.  
Eye Irritation : Minimally irritating. Causes eye irritation.  
Skin Sensitization : Not a contact sensitizer  
Carcinogenic : Not listed with EPA, ACGIH, IARC, NTP or OSHA.  
Chronic Effects : No evidence of mutagenic effects during in vivo and in vitro assays. Not known to cause reproductive or birth defects at normal exposure levels.  
Other Hazards : CA Prop 65: This product contains a chemical(s) known to the state of California to cause cancer and birth defects or reproductive harm: thiophanate-methyl.

### 12. Ecological Information

Ecotoxicity : Toxic to aquatic life. Bluegill (96-hour LC50)>41 ppm; Rainbow Trout (96-hour LC50)=8.3 ppm; Daphnia (48-hour EC50)=5.4 ppm; Mysid (96-hour LC50)=1.1 ppm; Bobwhite Quail (LC50)>10,000 ppm; Mallard Duck (LD50)=4,640 mg/kg.  
Persistence and Degradability : Not specified  
Bioaccumulative Potential : Not specified  
Mobility in Soil : Not specified  
Other Adverse Effects : Runoff may be hazardous to aquatic organisms. Do not contaminate water when disposing of equipment washwater or rinsate.

### 13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.



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### 14. Transport Information

**UN Proper Shipping Name** : Single packages  $\geq$  2 gallons and  $<$ 119 gallons: RQ, Environmentally Hazardous Substance, Liquid, n.o.s. (Thiophanate-methyl)  
**Transport Hazard Class** : Class 9  
**UN Identification Number** : UN3082  
**Packaging Group** : PG III  
**Environmental Hazards** : Marine Pollutant; Reportable Quantity (RQ) for Thiophanate-methyl=10 pounds/2 gallons.  
**Transport in Bulk** : RQ, UN3082, Environmentally Hazardous Substance, Liquid, n.o.s. (Thiophanate-methyl), 9, PG III, Marine Pollutant  
**Special Precautions for Transportation** : Not regulated in single packages  $<$  2 gallons.  
**Freight Classification** : Pesticides, NOI, Fungicides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)

### 15. Regulatory Information

**National Fire Protection Association Rating** :

Health: 1 Fire: 1 Reactivity: 0  
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

**S.A.R.A Title III Hazard Classification (Yes/No)** :

Immediate( Acute) Health: Y  
Delayed (Chronic) Health: N  
Sudden Release of N  
Pressure:  
Fire: N  
Reactive: N

**FIFRA Information** : This Chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**EPA Registration Number** : 5905-608  
**FIFRA Signal Word** : Caution  
**FIFRA Label Statement** : Keep out of reach of children.  
**FIFRA Label Statement** : Causes moderate eye irritation.  
**FIFRA Label Statement** : Harmful if inhaled, absorbed through skin, or swallowed.  
**FIFRA Label Statement** : Avoid breathing vapor or spray mist.  
**FIFRA Label Statement** : Avoid contact with skin, eyes or clothing.  
**FIFRA Label Statement** : No additional label statements.  
**FIFRA Label Statement** : No additional label statements.

### 16. Other Information

**Data of Preparation/Revision** : 20-November-2017