

SAFETY DATA SHEET

Emergency Call: 1-800-424-9300 (CHEMTREC)

1. IDENTIFICATION

Product Name: TM 462 F
Description: A liquid fungicide
EPA Reg. No.: 86064-9
Company Identification: United Turf Alliance, LLC
 8014 Cumming Highway, Suite 403-282
 Canton, GA 30115

2. HAZARD IDENTIFICATION

HAZARD CLASSIFICATION

Hazardous to the Aquatic Environment – Acute: Category 2

Acute Toxicity-Oral: Category 5
Acute Toxicity-Dermal: Category 5
Acute Toxicity-Inhalation: Category 5
Eye Damage/Irritation: Category 2B

Precautionary Statements

Avoid release to the environment not in accordance with the product label.

Dispose of contents / container in accordance with local regulations. Refer to the product label for specific disposal instructions.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Thiophanate-Methyl	(Dimethyl [(1,2-phenylene)bis-(iminocarbonothioyl)] bis[Carbamate])	23564-05-8	46.2%
Propylene Glycol		57-55-6	< 10%

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National Capital Poison Center at 1-800-222-1222 for emergency medical treatment information.

IF SWALLOWED: Call a doctor or poison control center if you feel unwell.

IF ON SKIN OR CLOTHING: Call a doctor or poison control center if you feel unwell.

IF INHALED: Call a doctor or poison control center if you feel unwell.

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

5. FIREFIGHTING MEASURES

Flash Point: Not combustible (aqueous formulation).

Fire and Explosion Hazards: Thermal decomposition may produce toxic fumes (see Section 10).

Extinguishing Medium: Water fog, foam, dry chemical or carbon dioxide (CO₂).

Fire Fighting Equipment: Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

Fire Fighting Instructions: Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

NFPA Ratings: Health-1 / Flammability-1 / Reactivity-0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document.

Environmental Precautions: 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 / firefighting water.

Spill Cleanup: Pump free liquid into suitable closed containers 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

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.

Storage: Store this product in a cool, dry place in its original container only. **DO NOT** store this product near fertilizers, seeds, or other pesticides.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

Protective Clothing: 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

Physical State: Off-white liquid

Odor: Faint sulfur

Flashpoint: > 94°C

pH: 5.5–6.0

Bulk Density: 1.118 g/ml (9.75 lbs/gal)

Solubility: Dispersible

Melting/Freezing Point: No data available

Boiling/Boiling Range: No data available

Flammability: No data available

Flammability Limits

(upper/lower): No data available

Auto-ignition

Temperature: No data available

Decomposition

Temperature: No data available

Kinematic Viscosity: No data available

Partition coefficient: No data available

Vapor Pressure: No data available

Density: No data available

Relative Vapor Density: No data available

Particle Characteristics: No data available

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Excessive heat.

CHEMICAL STABILITY: Stable under all normal use and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: This product is chemically stable and no hazardous reactions should occur if stored and handled as prescribed / indicated. When thermally decomposed, may release oxides of carbon, nitrogen and sulfur.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Skin Irritation: Slightly irritating

Skin Sensitization: Not a contact sensitizer

Carcinogenicity:

EPA: Not Listed

ACGIH: Not Listed

NTP: Not Listed

IARC: Not Listed

OSHA: Not Listed

Mutagenic Toxicity: No evidence of mutagenic effects during in vivo and in vitro assays.

Reproductive Toxicity: Not known to cause reproductive or birth defects at normal exposure levels.

12. ECOLOGICAL INFORMATION

Runoff may be hazardous to aquatic organisms. Do not contaminate water when disposing of equipment washwater or rinsate.

The following information is for the active ingredient, Thiophanate-methyl:

AQUATIC TOXICITY

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

AVIAN TOXICITY

Bobwhite Quail (LC₅₀): > 10,000 ppm

Mallard Duck (LD₅₀): 4,640 mg/kg

OTHER TOXICITY

Honey Bee (LD₅₀): > 100 µg/bee

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: DO NOT contaminate water, food or feed by disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.

14. TRANSPORT INFORMATION

US DOT:

Containers < 2.2 Gallons: Not regulated by DOT.

Containers ≥ 2.2 Gallons: UN 3082, Environmentally Hazardous Substance, Liquid, N.O.S (thiophanate-methyl), 9, III, RQ
Marine Pollutant: No

IMDG: UN 3082, Environmentally Hazardous Substance, Liquid, N.O.S (thiophanate-methyl), 9, III



15. REGULATORY INFORMATION

FIFRA—

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Harmful if swallowed. Avoid breathing vapor or spray mist. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Environmental Hazards

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

SARA Title III—Section 302 Extremely Hazardous Substances

Not listed

SARA Title III—Section 311/312 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 (46.2%)—CAS No. 23564-05-8

CERCLA Reportable Quantity (RQ) —

Thiophanate-methyl: 10 lbs. (2.2 gallons of this product)

CALIFORNIA PROP 65 STATUS —



WARNING: 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 www.P65Warnings.ca.gov.

CANADA —

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

16. OTHER INFORMATION

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED 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.

To the extent consistent with applicable law, neither United Turf Alliance, LLC nor Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF UNITED TURF ALLIANCE, LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF UNITED TURF ALLIANCE, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SDS Version: 1.2

