



TIDE INTERNATIONAL USA, INC.

—A DIVISION OF TIDE GROUP

MAIN OFFICE : 21 HUBBLE, IRVINE, CA 92618, USA

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Material Safety Data Sheet (MSDS)

MSDS# TIC-FUN01503

Date: 09/08/2008

Section 1 - Product Chemical and Company Identification

Product name	Thiophanate-methyl 85%WDG
Product Use	Fungicide
EPA Reg.No.	84229-3
Company	Tide International, USA, Inc.
Emergency phone	Chemtrec 1-800-424-9300 Tide International, USA, Inc. 1-949-679-3535

Section 2 - Composition /Information on Ingredients

Active Ingredient	CAS number	w/w %
Thiophanate-methyl	23564-05-8	85.0%
Other ingredient		15.0%

Section 3 - Hazards Identification

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

Section 4 - First Aid Measures

If poisoning occurs, immediately contact a doctor or Poisons Information Centre, and follow the advice given. Show this Material Safety Data Sheet to the doctor.

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 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 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

Section 5 - Fire Fighting Measures

Flash Point: Not applicable

Extinguishing media: Water, foam, CO2, dry chemical, earth or sand



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Hazardous decomposition products: Not applicable

Special fire-fighting procedures: Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

Section 6 - Accidental Release Measures

Avoid contact with the spilled material or contaminated surfaces. When dealing with spills wear suitable personal protective clothing and equipment. Sweep up spilled material, collect and store in properly labelled, sealed drums for safe disposal. Avoid creating dust. If spray mixture is spilled, absorb it in suitable inert absorbent material and collect in drums as above. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

Section 7- Handling and Storage

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 the storage or handling, sweep up spillage and dispose of in accordance with the Pesticide Disposal Instructions listed below.

Handling:

Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation. Do not get in eyes, on skin or on clothing.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority had been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. This pesticide is toxic to fish. Do not apply directly to water or wetlands. Do not apply directly to water by cleaning of equipment or disposal wastes.

Section 8 - Exposure Controls/Personal Protection

User safety requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Engineering controls

When handlers use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.



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User safety recommendations

Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Remove clothing/PPE 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. As soon as possible, wash thoroughly and change into clean clothing.

Section 9 - Physical and Chemical Properties

Appearance: Beige to white granular solid

Odor: Slightly odor

Flammability: not available

pH value: 6.48

Density: Tap density 0.547g/cm³

These physical data are typical values based on material test but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis and any specific lot or as specification items.

Section 10 - Stability and Reactivity

Stability: Stable under normal and anticipated storage and handling conditions.

Conditions to Avoid: None known.

Incompatibility (Material to Avoid): Strong oxidizers

Hazardous Polymerization: Will not occur

Section 11 - Toxicological Information

Acute Oral LD50: Acute Oral LD50 for rats >5000mg/kg.

Dermal LD50: Dermal LD50 for rabbits >5050mg/kg.

Inhalation LC50: Inhalation LC50 is 2.50 mg/L to rats

Skin irritation: Non-irritating to skin (rabbits), Toxicity category IV.

Eye irritation: Minimally irritation to eyes (rabbits). Toxicity category IV.

Skin sensitization: Not a skin sensitization to guinea pig.

Section 12 - Ecological Information (Based on the active Ingredient)

LC50 to rainbow trout 13.13mg/L (96h)

EC50 to daphnia 108.38mg/L (48h)

Environmental Hazardous

This product 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 when disposing of equipment washwaters.



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Section 13 - Disposal Considerations

Pesticide 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 used 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:

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

[Aluminum Film Bag]: Completely empty bag into application equipment. Then 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.

Section 14 - Transport Information

DOT CLASSIFICATION: Not regulated

B/L Freight Classification: Item 102120 [Insecticides, Fungicides, Insect or Animal Repellant] Class 60

International Transportation

IMO (vessel): Environmental hazardous substances, solid, N.O.S. (Thiophanate-methyl 85%), 9, UN 3077, PGIII, Marine pollutant

IATA (air) : Not regulated

Section 15 - Regulatory Information

SARA TITLE CLASSIFICATION

Section 302: Not applicable

Section 311/312:

Acute Health Hazard (immediate)

Delayed Health Hazard (chronic)

Section 313: Thiophanate-methyl 85%, CAS No.: 23564-05-8

CALIFORNIA PROPOSITION 65

This product contains a chemical (thiophanate-methyl) that is known to the State of California to cause female and male reproductive toxicity.

CERCLA/SARA 302 Reportable Quantity (RQ) : Thiophanate-methyl RQ = 1 lbs. (SARA)

RCRA Hazardous Waste Classification: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, 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.



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TSCA Status: Not applicable

Section 16 - Other Information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. Tide International USA, Ltd. assumes no responsibility for results obtained or for incidental or consequential damages arising from the use of these data.