



Material Safety Data Sheet

United Phosphorus, Inc.

NFPA	PPE		

Issued Date 08-Feb-2007

Revision Date 04-Jan-2011

Revision Number: 9

1. PRODUCT AND COMPANY IDENTIFICATION

UPI
 630 Freedom Business Center
 Suite 402
 King of Prussia, PA 19406

Emergency Telephone Number
 Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
 Medical: Rocky Mountain Poison Control Center
 (866) 673-6671 (24hrs)

Company Information
 UPI

Contact Information
 Customer Service
 R&D Technical Service

Phone Number
 1-800-438-6071
 610-878-6100

Available Hrs
 8:00 am to 5:00 pm EST
 8:00 am - 5:00 pm (EST)

Product Name TOPSIN® M WSB
EPA Reg # 73545-16-70506
Recommended Use fungicide
Product Code 12-377

2. HAZARDS IDENTIFICATION

Emergency Overview

Harmful by inhalation, in contact with skin and if swallowed
Irritating to eyes
May cause thyroid and liver damage based on animal data.
May cause allergic skin reaction

CAUTION

Appearance Light brown.

Physical State Powder.

Odor Slight. Rotten egg-like.

Potential Health Effects

- Inhalation
- Skin contact
- Repeated or long term exposure may cause adverse effects on the liver or thyroid.

Eyes	May cause slight irritation.
Skin	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Inhalation	Slightly toxic if inhaled.
Ingestion	May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
Thiophanate-methyl	23564-05-8	72	N/A

4. FIRST AID MEASURES

Eye Contact

Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye.
Call a poison control center or doctor for treatment advice.

Skin Contact

Take off contaminated clothing.
Rinse skin immediately with plenty of water for 15-20 minutes.
Call poison control center or doctor for treatment advice.

Inhalation

Move person to fresh air.
If person is not breathing, call 911 or an ambulance, then give artificial respiration.
Call a poison control center or doctor for further treatment advice.

Ingestion

Call a physician or Poison Control Center immediately
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
Never give anything by mouth to an unconscious person

Notes to Physician

No information available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Engineering Controls	Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems. . PESTICIDE APPLICATORS & WORKERS. THESE WORKERS MUST REFER TO PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA WORKER PROTECTION STANDARD 40 CFR PART 170..
Personal Protective Equipment	
Eye/face Protection	Goggles. Avoid contact with eyes.
Skin Protection	Rubber gloves. Wear protective gloves/clothing. Socks and footwear.
Respiratory Protection	Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134. .
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light brown	Odor	Slight Rotten egg-like
Physical State	Powder	pH	No data available
Boiling Point/Range	Not available	Melting Point/Range	172°C
Specific Gravity	Not available	Solubility	Insoluble
Evaporation Rate	Not available	Vapor Pressure	7.12 X 10 ⁻⁸ mmHg(tech)
Vapor Density	Not available	VOC Content	Not available
Viscosity	Not available	Molecular Weight	No data available
Bulk Density	No data available	Percent Solids	Not available
Percent Volatiles	Not available		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions
Conditions to Avoid	No information available.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	No information available.
Possibility of Hazardous Polymerization	Hazardous polymerisation does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Single exposure studies indicate:

Oral: Practically non-toxic to rats (LD50 >5,000 mg/kg)

Dermal: No more than slightly toxic to rabbits (LD50 >2,000 mg/kg)

Inhalation: Slightly toxic to rats (4 hr LC50 1.8 mg/l)

Skin Irritation: Non-irritating to rabbits

Eye Irritation: Non-irritating to rabbits

Skin allergy was observed in guinea pigs following repeated exposure. Repeated or long-term oral administration produced effects on the thyroid, liver or kidneys in rats, mice and dogs. An increased incidence of liver tumors was observed in mice and thyroid tumors were observed in male rats following long-term oral exposure.

No effects were seen on the ability of male or female rats to reproduce when exposed orally for 2 successive generations. No birth defects were observed in the offspring of rats exposed orally during pregnancy. In rabbits, developmental effects were noted only at maternally toxic doses. No genetic changes were observed in tests using animal cells.

Chronic Toxicity

There are no known carcinogenic chemicals in this product

Carcinogenicity

12. ECOLOGICAL INFORMATION

Ecotoxicity

This material is practically non-toxic to carp (96 hr LC50 >100 mg/l), and fiddler crab (96 hr LC50 >560 mg/l). It is slightly toxic to bluegill (96 hr LC50 15.8 mg/l), Daphnid (48 hr EC50 15.6 mg/l) and shrimp (96 hr LC50 25.1 mg/l). It is moderately toxic to trout (96 hr LC50 2.2 mg/l) and oysters (96 hr LC50 2.2 mg/l) and oysters (96 hr LC50 4.6 ppm) and highly toxic to catfish..

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or 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. . Can be disposed as waste water, when in compliance with local regulations.

Contaminated Packaging

Non refillable container. Do not reuse this container. . Offer for recycling, if available or, dispose of the empty outer foil pouch in the trash as long as WSP is unbroken. .

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name

Hazard Class

UN-No

When shipped in packages greater than 15 lbs the following descriptions applies:

Environmentally hazardous substances, solid, n.o.s. (Thiophanate methyl)

9

UN3077

14. TRANSPORT INFORMATION

Packing Group PG III
Reportable Quantity (RQ): 10 lbs (Thiophanate methyl)

ICAO

UN-No UN3077
Proper Shipping Name Environmentally hazardous substance, solid, n.o.s. (Thiophanate methyl)
Hazard Class 9
Packing Group PG III

IATA

UN-No UN3077
Proper Shipping Name Environmentally hazardous substances, solid, n.o.s. (Thiophanate methyl)
Hazard Class 9
Packing Group PG III
ERG Code 9L

IMDG/IMO

Proper Shipping Name Environmentally hazardous substances, solid, n.o.s. (Thiophanate-methyl)
Hazard Class 9
UN-No 3077
Packing Group PG III

15. REGULATORY INFORMATION

International Inventories

Thiophanate-methyl
DSL Listed
EINECS/ELINCS Listed
CHINA Listed
KECL Listed

USA

Federal Regulations

SARA 313

Y

Chemical Name	CAS-No	Weight %
Thiophanate-methyl	23564-05-8	72

SARA 311/312 Hazardous Categorization

Chronic Health Hazard Yes
Acute Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

CERCLA

Chemical Name	RQ
Thiophanate-methyl	Listed.

RCRA

Chemical Name	RCRA - D Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Thiophanate-methyl			U409

Pesticide Information

State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	Category	California Prop. 65
Thiophanate-methyl	23564-05-8		Listed. Listed: May 18, 1999 Female reproductive toxin. Listed: May 18, 1999 Male reproductive toxin. 600 ug/day Oral

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Thiophanate-methyl		Substance no. 2211 Listed. Substance no. 2212 Listed. Substance no. 2210 Listed. Substance no. 2213 Listed.		Listed.	

International Regulations

Mexico - Grade

Not available

Canada

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

WHMIS Hazard Class

Not determined

16. OTHER INFORMATION

Revision Date 04-Jan-2011

Revision Summary

Update section 13 Update section 8

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End of MSDS