






Material Safety Data Sheet

United Phosphorus, Inc.

NFPA	PPE		
			

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Revision Number: 8

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)

<u>Company Information</u>	<u>Contact Information</u>	<u>Phone Number</u>	<u>Available Hrs</u>
UPI	Customer Service R&D Technical Service	1-800-438-6071 610-223-2180	8:00 am to 5:00 pm EST 8:00 am - 5:00 pm (EST)

Product Name	TOPSIN® M 70% WP
EPA Reg #	73545-11-70506
Recommended Use	fungicide
Product Code	12-322

2. HAZARDS IDENTIFICATION

Emergency Overview

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

CAUTION

Appearance Light brown.

Physical State Powder.

Odor Slight. Rotten egg-like.

Potential Health Effects

- Inhalation
- Skin contact

Eyes

Irritating to eyes.

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	72.2	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

If breathing is irregular or stopped, administer artificial respiration
May cause allergic respiratory reaction
Call a poison control center or doctor for further treatment advice.

Ingestion

Call a physician or poison control center immediately
May produce an allergic reaction
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

5. FIRE-FIGHTING MEASURES

Flammable Explosive Properties

Flash Point	Not available		
Autoignition Temperature	Not available		
Flammability Limits in Air	Not available		
Extnguishing Media	Use: Water spray, Carbon dioxide (CO2), Foam Dry chemical.		
Fire/Explosion Hazard	Firefighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear and self-contained breathing apparatus. Fire fighting equipment should be thoroughly decontaminated after use.		
Hazardous Combustion Products	No information available.		
NFPA	Health 1	Flammability 0	Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with skin, eyes and clothing. Use personal protective equipment.
Environmental Precautions	Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Do not flush into surface water or sanitary sewer system.
Methods for Clean-up	Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling	Avoid breathing dust. Keep out of reach of children. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.

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.
Personal Protective Equipment	
Eye/face Protection	Avoid contact with eyes. Goggles.
Skin Protection	Rubber gloves. Wear protective gloves/clothing.
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	Not available
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

Carcinogenicity

There are no known carcinogenic chemicals in this product.

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. Chem Fate: No information available.

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. Dispose of contents/container in accordance with local regulation.

Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name

Hazard Class

UN-No

Packing Group

Reportable Quantity (RQ):

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

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

9

UN3077

PG III

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 3077
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

Chemical Name	TSCA	DSL	NDSL	EINECS/ ELINCS	ENCS	CHINA	KECL	AICS
Thiophanate-methyl		X		X		X	KE-28330	X

USA

Federal Regulations

SARA 313

Y

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Thiophanate-methyl	23564-05-8	72.2	1.0

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

Component	RQ
Thiophanate-methyl 23564-05-8 (72.2)	10 lb

RCRA

Component	RCRA - D Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Thiophanate-methyl 23564-05-8 (72.2)			U409

Pesticide Information

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Thiophanate-methyl 23564-05-8 (72.2)			X	

State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	Category	California Prop. 65	Non-additive, corrosive chemical type
Thiophanate-methyl	23564-05-8		Female Reproductive Male Reproductive	Female Reproductive Male Reproductive

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Thiophanate-methyl		X			

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 02-Jul-2013

Revision Summary

Update section 1

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End of MSDS