

# **Safety Data Sheet**

## United Phosphorus, Inc.

Preparation Date 10-May-2015 Revision date 10-May-2015 **Revision Number: 1** 

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

**Product Description:** TOPSIN® 4.5 FL

Other means of identification

12-405FLOW Item#: **UN-No** UN3082 **Synonyms** Not Available Registration number(s) 8033-122-70506

Recommended use of the chemical and restrictions on use

Recommended use Fungicide.

Uses advised against Activities contrary to label recomendation

**Details of the Supplier of the Safety Data Sheet** 

**Supplier Address** 

UPI

630 Freedom Business Center

Suite 402

King of Prussia, PA 19406 Emergency telephone number

1-800-438-6071 **Company Phone Number** 

**Emergency telephone number** Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887

Medical: Rocky Mountain Poison Control Center

(866) 673-6671 (24hrs)

#### 2. Hazards Identification

#### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Gases)	Category 2
Acute toxicity - Inhalation (Vapors)	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1
Germ cell mutagenicity	Category 2

#### Label elements

#### **EMERGENCY OVERVIEW**

## DANGER

hazard statements

Harmful in contact with skin

Fatal if inhaled

May cause an allergic skin reaction Suspected of causing genetic defects



appearance light red Physical state liquid Odor No information available

#### **Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood Do not handle until all safety precautions have been read and understood Wear cold insulating gloves/face shield/eye protection Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area In case of inadequate ventilation wear respiratory protection Contaminated work clothing should not be allowed out of the workplace Wear protective gloves

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water
Call a POISON CENTER or doctor if you feel unwell
Wash contaminated clothing before reuse
If skin irritation or rash occurs: Get medical advice/attention
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a POISON CENTER or doctor/physician

#### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Hazards Not Otherwise Classified (HNOC) OTHER INFORMATION

- Very toxic to aquatic life with long lasting effects
- · Very toxic to aquatic life
- · May be harmful in contact with skin

## 3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
Thiophanate-methyl	23564-05-8	45	

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

## 4. First aid measures

#### **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** Wash off immediately with plenty of water for at least 15 minutes. Call poison control center

or doctor for treatment advice.

Revision date 10-May-2015

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**Inhalation** Move to fresh air in case of accidental inhalation of vapors or decomposition products. If

symptoms persist, call a physician. Immediate medical attention is required. Call a

physician or poison control center immediately. Toxic by inhalation.

**Ingestion** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Call a physician. Clean mouth with water and drink afterwards plenty

of water afterwards.

**Protection of First-aiders**Use personal protective equipment.

Most Important Symptoms and Effects, Both Acute and Delayed

**Most Important Symptoms and** 

Effects

No information available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician Treat symptomatically.

## 5. Fire-fighting measures

#### Suitable extinguishing media

Carbon dioxide (CO2).

Use:. Dry chemical. Water spray. alcohol-resistant foam.

Unsuitable extinguishing media No information available.

#### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapours.

Hazardous combustion products No information available.

#### **Explosion data**

#### Protective equipment and precautions for firefighters

Use personal protective equipment. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with the skin and the eyes. Wear protective gloves/clothing and eye/face

protection. Wash thoroughly after handling.

**Environmental Precautions** 

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 pertinenet environmental permits.

Methods and material for containment and cleaning up

Methods for Clean-Up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust). Sweep up and shovel into suitable containers for disposal.

## 7. Handling and Storage

Precautions for safe handling

Handling Wear personal protective equipment. Avoid contact with skin and eyes. Do not eat, drink or

smoke when using this product. Keep out of reach of children. Wash thoroughly after

handling.

#### Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Keep in a dry, cool and well-ventilated place.

incompatible materials Strong oxidizing agents.

## 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**Use eye protection to avoid eye contact. Where there is potential for eye contact have eye

flushing equipment available. Safety glasses with side-shields.

**Skin protection** 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

Do not eat, drink or smoke when using this product. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

## 9. Physical and Chemical Properties

## Information on basic physical and chemical properties

Physical state liquid appearance light red

 appearance
 light red
 Odor
 No information available

**color** No information available

Property VALUES Remarks/ • Method

**pH** 6

Melting point/freezing point 7 °C / 45 °F

Boiling Point/Range

Flash Point

Evaporation Rate

flammability (solid, gas)

No information available
No information available
No information available

Flammability limit in air

Upper Flammability Limit
Lower Flammability Limit
vapor pressure
Vapor Density

No information available
No information available
No information available
No information available

Specific gravity 1.1974

Water solubility

Solubility in Other Solvents

Partition coefficient: n-octanol/waterNo information available
Autoignition temperature
decomposition temperature
Viscosity, kinematic

No information available
No information available
No information available
No information available

#### 12-405FLOW TOPSIN® 4.5 FL

Dynamic viscosityNo information availableExplosive propertiesNo information availableOxidizing propertiesNo information available

#### **OTHER INFORMATION**

Softening point
Mo information available
No information available
No information available
No information available
No information available

Bulk density 9.974 lb/gal

## 10. Stability and Reactivity

#### Reactivity

no data available

#### **Chemical stability**

Stable under normal conditions. Hazardous polymerisation does not occur.

#### Possibility of hazardous reactions

None under normal processing.

Hazardous polymerization Hazardous polymerisation does not occur.

#### Conditions to avoid

No information available.

## incompatible materials

Strong oxidizing agents.

## **Hazardous decomposition products**

Carbon oxides.

## 11. Toxicological Information

#### Information on Likely Routes of Exposure

**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 Eve 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.

Inhalation HARMFUL IF INHALED.

**Eye contact** May cause irritation.

**Skin contact** May be harmful if absorbed through the skin.

Ingestion MAY BE HARMFUL IF SWALLOWED.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Thiophanate-methyl	-	-	= 1700 mg/m <sup>3</sup> ( Rat ) 4 h
23564-05-8			

#### Information on Toxicological Effects

Symptoms No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

sensitizationNo information available.Mutagenic effectsNo information available.

**Carcinogenicity** There are no known carcinogenic chemicals in this product.

Reproductive effects Not Available.

STOT - Single Exposure
STOT - repeated exposure
Chronic toxicity
Aspiration hazard
No information available.
Avoid repeated exposure.
No information available.

#### Numerical Measures of Toxicity - Product information

**LD50 Oral** 5000 mg/kg (rat) **LD50 Dermal** > 2000 mg/kg (rat)

**LC50** Inhalation: LC50/inhalation/4h/rat = 1.8 mg/l

## 12. Ecological Information

#### ecotoxicity

Thiophanate methyl methyl Carp 96 hr LC50 = >100 mg/L Fiddler crab 96 hr LC50 = >560 mg/L Bluegill 96 hr LC50 = 15.8 mg/L Daphnid 48 hr EC50 = 15.6 mg/L Shrimp 96 hr LC50 = 25.1 mg/L Trout 96 hr LC50 - 2.2 mg/L Oyster 96 hr LC50 = 4.6 ppm Highly toxic to catfish

#### Persistence/Degradability

No information available.

#### **Bioaccumulation/ Accumulation**

Does not bioaccumulate.

#### Other Adverse Effects

No information available

## 13. Disposal Considerations

#### **Waste Treatment Methods**

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.

Contaminated packaging Refer to product label.

Chemical name RCRA RCRA - Basis for Listing RCRA - D Series Wastes RCRA - U Series Wastes
Thiophanate-methyl U409 U409

# 14. Transport Information

DOT

**UN-No** UN3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s (Thiophanate methyl)

Hazard class 9
Packing group PG III

Reportable Quantity (RQ): 10 lbs (Thiophanate methyl)

**ICAO** 

UN-No UN3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s (Thiophanate methyl)

Hazard class 9

Packing group PG III

<u>IATA</u>

UN-No UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s (Thiophanate methyl)

Hazard class 9

Packing group PG III

IMDG/IMO

UN-No UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s (Thiophanate-methyl)

Hazard class 9

Packing group PG III

Marine Pollutant This product contains a chemical which is listed as a marine pollutant according to

IMDĠ/IMO

#### 15. Regulatory Information

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. Following is the hazard information as required on the pesticide label:

signal word CAUTION

**Ventilation Control** 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.

Harmful if inhaled or absorbed through skin.

**International Inventories** 

USINV Not determined Not determined EINECS/ Does not comply

**ELINCS** 

ENCS Does not comply
China Complies
KECL Complies
PICCS Complies

AICS Complies TSCA Does not comply

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## **Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372:

Chemical name	SARA 313 - Threshold Values
Thiophanate-methyl - 23564-05-8	1.0

#### SARA 311/312 Hazardous

Categorization

Acute health hazard yes
Chronic health hazard yes
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard yes

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Chemical name	RQ	CERCLA EHS RQs	RQ
Thiophanate-methyl	10 lb		RQ 10 lb final RQ RQ 4.54 kg final
23564-05-8			RQ

## CERCLA

Component	RQ
Thiophanate-methyl	10 lb
23564-05-8 ( 45 )	

#### SARA Product RQ

#### RCRA

Component	RCRA - D Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Thiophanate-methyl			U409
23564-05-8 ( 45 )			

## 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 ( 45 )			Х	

#### State Regulations

Component	CAS-No	CATEGORY	California Prop. 65	Non-additive, corrosive chemical type
Thiophanate-methyl 23564-05-8 (45)	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

U.S. EPA Label information

EPA Pesticide registration number 8033-122-70506

16. Other Information					
NFPA	HEALTH 1	flammability 0	Instability 0	Physical hazard -	

Preparation Date Revision date Revision Summary Update to GHS format 10-May-2015 10-May-2015

**End of MSDS**