



# Safety Data Sheet

United Phosphorus, Inc.

Preparation Date 06-May-2015

Revision date 04-Dec-2018

Revision Number: 3

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

### Product identifier

**Product Description:** SuperTin 80 WP

### Other means of identification

**Product code** RAM02  
**UN/ID no.** UN2786  
**Registration number(s)** 70506-214

### Recommended use of the chemical and restrictions on use

**Recommended use** Fungicides.  
**Uses advised against** Activities contrary to label recommendation

### Details of the Supplier of the Safety Data Sheet

#### **Supplier Address**

United Phosphorus Inc.  
630 Freedom Business Center  
Suite 402  
King of Prussia, PA 19406

### Emergency telephone number

**Company Phone Number** 1-800-438-6071  
**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 (Vapors)	Category 1
Skin Corrosion/Irritation	Category 2
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 2
Reproductive Toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1

### Label elements

#### **EMERGENCY OVERVIEW**

**DANGER**

#### **Hazard Statements**

Harmful in contact with skin  
Fatal if inhaled  
CAUSES SKIN IRRITATION  
Causes serious eye damage  
Suspected of causing cancer  
Suspected of damaging fertility or the unborn child

May cause respiratory irritation  
Causes damage to organs through prolonged or repeated exposure



**Appearance** Tan

**Physical state** powder

**Odor** Slight

#### Precautionary Statements - Prevention

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  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product

#### Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention  
IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Immediately call a POISON CENTER or doctor/physician  
IF ON SKIN: Wash with plenty of soap and water  
Call a POISON CENTER or doctor if you feel unwell  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing and wash before reuse  
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

### 3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Morwet D-425	68425-94-5	3
Triphenyltin hydroxide	76-87-9	84.2
diatomaceous earth	61790-53-2	2.8
Kaolin clay	1332-58-7	4

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

<b>Eye contact</b>	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.
<b>Skin contact</b>	Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
<b>Inhalation</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
<b>Ingestion</b>	Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

**Most Important Symptoms and Effects, Both Acute and Delayed**

**Most Important Symptoms and Effects** no data available.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

**Notes to physician** No information available.

**5. Fire-fighting measures****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** no data available.

**Specific hazards arising from the chemical**

No information available.

**Hazardous combustion products**Diphenyltin hydroxide, monophenyltin hydroxides, and metallic tin under fire conditions.

**Explosion data****Protective equipment and precautions for firefighters**

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 skin and eyes. Attention! Corrosive material. Wear protective gloves/protective 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 pertinent environmental permits.

**Methods and material for containment and cleaning up**

**Methods for Clean-Up** Avoid dust formation. Sweep up and shovel into suitable containers for disposal.

**7. Handling and Storage****Precautions for safe handling**

**Handling** Do not eat, drink or smoke when using this product. Do not breathe vapours or spray mist. Remove and wash contaminated clothing before re-use.

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

**Storage** Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur. Keep out of the reach of children. Store in cool/well-ventilated place. Avoid temperature extremes during storage. Store in original container.

**incompatible materials** No information available.

## 8. Exposure Controls/Personal Protection

**Exposure guidelines**

Chemical name	ACGIH TLV	OSHA PEL
diatomaceous earth		(vacated) TWA: 6 mg/m <sup>3</sup> Silica, amorphous <1% Crystalline silica : (80)/(% SiO <sub>2</sub> ) mg/m <sup>3</sup> TWA TWA: 20 mppcf
Kaolin clay	TWA: 2 mg/m <sup>3</sup> particulate matter containing no asbestos and <1% crystalline silica, respirable fraction	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction

**Engineering controls** When handlers use closed systems, enclosed cabs, or aircraft 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.

**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. If splashes are likely to occur, wear: Goggles. or. Face-shield.

**Skin protection**

Long sleeved clothing. Long pants. Chemical resistant gloves. Chemical resistant apron.

**Respiratory protection**

Select respirator with an organic vapor cartridge with prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with organic vapor cartridge or canister with any N,P,R, or HE filter.

**General hygiene considerations**

Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes and clothing. Wash hands and face before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection. Wear respiratory protection.

## 9. Physical and Chemical Properties

**Information on basic physical and chemical properties**

<b>Physical state</b>	powder		
<b>Appearance</b>	Tan	<b>Odor</b>	Slight
<b>color</b>	No information available		

<u>Property</u>	<u>VALUES</u>	<u>Remarks/ • Method</u>
<b>pH</b>	9.3	(1% aq)
<b>Melting point/freezing point</b>	118-122 °C	
<b>Boiling Point/Range</b>	No information available	
<b>Flash Point</b>	No information available	
<b>Evaporation Rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability limit in air</b>		
<b>Upper Flammability Limit</b>	No information available	
<b>Lower Flammability Limit</b>	No information available	
<b>vapor pressure</b>	No information available	

<b>Vapor Density</b>	No information available
<b>Specific gravity</b>	0.263 g/mL
<b>Water solubility</b>	No information available
<b>Solubility in Other Solvents</b>	No information available
<b>Partition coefficient: n-octanol/water</b>	No information available
<b>Autoignition temperature</b>	no data available
<b>Decomposition temperature</b>	No information available
<b>Viscosity, kinematic</b>	No information available
<b>Dynamic viscosity</b>	No information available
<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available

**OTHER INFORMATION**

<b>Softening point</b>	No information available
<b>molecular weight</b>	No information available
<b>VOC Content</b>	No information available
<b>Liquid Density</b>	No information available

## 10. Stability and Reactivity

**Reactivity**

no data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to avoid**

Not known.

**incompatible materials**

No information available.

**Hazardous decomposition products**

Diphentyltin hydroxide, monophenyltin hydroxide, and metallic tin (Organic acid vapors).

## 11. Toxicological Information

**Information on Likely Routes of Exposure****Product information**

Super Tin 80 WP:

Oral LD50 : 160 mg/kg in rats

Dermal LD50 : 500 mg/kg in rabbits

Inhalation LC50 (4 hr) : 0.039 mg/L in rats (Note: Particle size is 25-250 microns)

Skin : Severe skin irritant

Eye : Product has not been tested; however, the active ingredient TPTH is corrosive to the eyes.

The following information is for the active ingredient TPTH:

In rats and mice, repeated ingestion resulted in non-specific effects such as weight loss and reduced food consumption. It also resulted in altered lymphocyte, white blood cell, and immunoglobulin counts in animals.

A 90 day neurotoxicity study in rats found no evidence of neurotoxicity up to the highest level tested (80 ppm)

**Inhalation**

Harmful by inhalation. MAY BE FATAL IF INHALED.

<b>Eye contact</b>	Causes irreversible eye damage. Corrosive.
<b>Skin contact</b>	Contact causes severe skin irritation and possible burns.
<b>Ingestion</b>	MAY BE FATAL IF SWALLOWED.

**Information on Toxicological Effects**

**Symptoms** No information available.

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

**Sensitization** No information available.  
**Mutagenic effects** no data available.  
**Carcinogenicity** Super Tin 4L:  
 90 day neurotoxicity study = No evidence of neurotoxicity up to the highest level tested (80 ppm)

Animal data using Triphenyltin hydroxide show an increase in pituitary and testicular tumors in rats and an increase in liver tumors in mice.

Developmental effects were seen to exposure levels producing other toxic effects in the adult animal when tested with Triphenyltin hydroxide.

2-generation reproduction study with Triphenyltin hydroxide in rats produced a decreased litter size and effects on the liver and spleen weight at exposure levels lower than where parental toxicity was observed.

3-generation study with Triphenyltin hydroxide in rats resulted in retardation of testicular development but did not effect testicular damage or fertility.

Triphenyltin hydroxide did not produce genetic damage in bacterial cell cultures or in animals.

Chemical name	ACGIH	IARC	NTP	OSHA
diatomaceous earth 61790-53-2	-	Group 3		-

**Reproductive effects** Not Available.  
**STOT - Single Exposure** no data available.  
**STOT - Repeated Exposure** no data available.  
**Aspiration hazard** No information available.

**Numerical Measures of Toxicity - Product information**

**LD50 Oral** 160 mg/kg (rat)  
**LD50 Dermal** 500 mg/kg (rabbit)  
**LC50 Inhalation** Inhalation LC50 0.039 mg/l

## 12. Ecological Information

Marine Pollutant.

**ecotoxicity**

Supertin 80 WP :  
 96 hr LC50 Rainbow trout = 0.018 mg/L  
 48 hr EC50 Daphnia magna = 0.0017 mg/L

**Persistence/Degradability**

no data available.

**Bioaccumulation/ Accumulation**

No information available.

**Other Adverse Effects**

no data 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.

**14. Transport Information****DOT**

<b>UN/ID no.</b>	UN2786
<b>Proper shipping name</b>	Organotin pesticides, solid, toxic (Triphenyltin hydroxide)
<b>Hazard class</b>	6.1
<b>Packing group</b>	PG II
<b>IMDG - Marine Pollutant</b>	Marine Pollutant.

**TDG**

<b>UN/ID no.</b>	UN2786
<b>Proper shipping name</b>	Organotin pesticides solid toxic (Triphenyltin hydroxide)
<b>Hazard class</b>	6.1
<b>Packing group</b>	PG II
<b>Marine Pollutant: Y or N [List Ingredient(s) with %]</b>	Marine pollutant.

**IATA**

<b>UN/ID no.</b>	UN2786
<b>Proper shipping name</b>	Organotin pesticide, solid, toxic (Triphenyltin hydroxide)
<b>Hazard class</b>	6.1
<b>Packing group</b>	PG II
<b>Description</b>	IMDG - Marine Pollutant

**IMDG**

<b>UN/ID no.</b>	UN2786
<b>Proper shipping name</b>	Organotin pesticide, solid, toxic. (Triphenyltin hydroxide)
<b>Hazard class</b>	6.1
<b>Packing group</b>	PG II
<b>EmS No.</b>	F-A, S-A
<b>Environmental hazards</b>	This product contains a chemical which is listed as a severe marine pollutant according to IMDG/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** DANGER

**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.

**POISON. Restricted Use Pesticide. Keep out of Reach of Children. Fatal if inhaled. Corrosive. Causes irreversible eye damage. May be fatal if swallowed. Harmful if absorbed through the skin. Toxic to fish. Toxic to wildlife.**

**The US EPA has determined that TPTH, the active ingredient of this product affects fetal development in laboratory animals. Exposure to this product during pregnancy must be avoided.**

#### International Inventories

USINV	Not present
DSL/NDSL	Not present
EINECS/ ELINCS	Not Present
ENCS	Not Present
China	Not Present
KECL	Not Present
PICCS	Not Present
AICS	Not Present
TSCA	Not Present

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

Y

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

##### CERCLA

Not applicable

##### CERCLA

##### RCRA

#### Pesticide Information

#### State Regulations

Component	CAS No	CATEGORY
Triphenyltin hydroxide 76-87-9 ( 84.2 )	76-87-9	Carcinogen

#### Prop 65 Pictogram





**Prop 65 Warning Statement**  
**California Proposition 65**

**WARNING!\*\*\***

This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)\*\*\*

Component	California Prop. 65	Non-additive, corrosive chemical type
Triphenyltin hydroxide 76-87-9 ( 84.2 )	Carcinogen Developmental	

**State Right-to-Know**

Not applicable

**International regulations**

**U.S. EPA Label information**

EPA Pesticide registration number 70506-214

**16. Other Information**

**NFPA**

**HEALTH 3**

**flammability 0**

**Instability 1**

**Physical hazard -**

**Preparation Date**

06-May-2015

**Revision date**

04-Dec-2018

**Revision Summary**

**3 year cycle update\*\*\***

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**End of SDS**