



Material Safety Data Sheet

United Phosphorus, Inc.

NFPA	PPE		
			

Issued Date 08-Feb-2007

Revision Date 06-Jan-2011

Revision Number: 4

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 SuperTin 80 WP
EPA Reg # 70506-214
Recommended Use fungicide
Product Code RAM02

2. HAZARDS IDENTIFICATION

Emergency Overview

Fatal if inhaled.

Causes irreversible eye damage

Causes skin burns

May be harmful if swallowed, inhaled, or absorbed through the skin.

The active ingredient has been determined by US EPA to cause effects to fetal development. Exposure to this product during pregnancy should be avoided.

DANGER!

Appearance Fine,, Beige.

Physical State Powder.

Odor Slight.

Potential Health Effects

- Inhalation
- Skin contact

Acute Effects

TPTH- Based on single exposure animal tests, it is considered to be moderately toxic if swallowed, highly toxic if absorbed through skin or inhaled and severely irritating to eyes. Direct contact with skin may cause moderate irritation with immediate or delayed symptoms. Overexposure to dust may result in adsorption through the skin and lungs causing headache, gastrointestinal disturbances, diarrhea, blurred vision, hyperglycemia and liver damage. Animal studies with this material have shown repeated administration can cause adverse effects on the pituitary, liver and immune system.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
Triphenyltin hydroxide	76-87-9	80	0.1 mg/m ³ Sn ₂

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

5. FIRE-FIGHTING MEASURES

Flammable Explosive Properties

Flash Point

Not determined

Autoignition Temperature

Not available

Flammability Limits in Air

Not available

Extinguishing 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

May decompose on contact with flames or extremely hot metal surfaces to produce toxic and corrosive products. ,
Dust clouds generated during handling and/or storage can form explosive mixtures with air. Dust explosion characteristics vary with the particle size, particle shape, moisture content, contaminants, and other variables.

As with any dry material, pouring this material or allowing it to free fall or be conveyed through chutes or pipes can accumulate and generate electrostatic sparks, potentially causing ignition of the material itself, or any flammable materials which may come into contact with the material or its container. Check that all equipment is properly grounded and installed to satisfy electrical classification requirements. .

NFPA

Health 3

Flammability 1

Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid dust formation. Remove all sources of ignition. Use personal protective equipment. Ensure adequate ventilation. Avoid contact with the skin and the eyes.

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 for Clean-up

Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Remove all ignition sources.

7. HANDLING AND STORAGE

Handling	Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours/dust. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from heat, sparks and open flame. - No smoking. Use spark resistant tools. Empty containers may contain hazardous residues.
Storage	Keep out of the reach of children. Keep away from open flames, hot surfaces and sources of ignition. Keep in a dry, cool and well-ventilated place. Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur. . Store in original container. . Store above 0 C and below 35 C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL
Triphenlytin hydroxide	0.1 mg/m ³ Sn ₂	0.1 mg/m ³ Sn ₂

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..

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

Where there is potential for eye contact have eye flushing equipment available.. Use eye protection to avoid eye contact. . Goggles. or. Face-shield.

Skin Protection

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

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. Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	Fine, Beige	Odor	Slight
Physical State	Powder	pH	(1% solution)9.3
Boiling Point/Range	Not available	Melting Point/Range	118-122°C
Specific Gravity	0.263 g/mL	Solubility	Dispersible in water
Evaporation Rate	Not available	Vapor Pressure	Not available
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	<1		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions
Conditions to Avoid	Avoid dust formation. Keep away from children. Direct sunlight may cause degradation to an inorganic tin salt. .
Incompatible Materials	Acids. oxidizers.
Hazardous Decomposition Products	Diphentyltin hydroxide, monophenyltin hydroxide, and metallic tin (Organic acid vapors).
Possibility of Hazardous Polymerization	Hazardous polymerisation does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

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)

Chronic Toxicity

Carcinogenicity

TPTH:

Animal data shows an increase in pituitary and testicular tumors in rats and in increase in liver tumors in mice. Animal data show developmental effects only at exposure levels producing other toxic effects in the adult animal.

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

In a 3-generation study in rats, TPTH caused a retardation of testicular development which was not accompanied by testicular damage or decreased fertility.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Super Tin 80 WP:

96 hr LC50 = Rainbow trout 0.018 mg/L

48 hr EC50 = Daphnia magna 0.0017 mg/L

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

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. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. Do not apply directly to wetlands or water.. 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

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	Organotin pesticide, solid, toxic, n.o.s. (Triphenyltin hydroxide)
Hazard Class	6.1
UN-No	2786
Packing Group	PG II
Marine Pollutant:	This product contains a chemical which is listed as a severe marine pollutant according to DOT.

ICAO

UN-No	2786
Proper Shipping Name	Organotin pesticide, solid, toxic, n.o.s. (Triphenyltin hydroxide)
Hazard Class	6.1

14. TRANSPORT INFORMATION

Packing Group PG II

IATA

UN-No 2786
Proper Shipping Name Organotin pesticide, solid, toxic, n.o.s. (Triphenyltin hydroxide)
Hazard Class 6.1
Packing Group PG II
ERG Code 6 L

IMDG/IMO

Proper Shipping Name Organotin pesticide, solid, toxic, n.o.s. (Triphenyltin hydroxide)
Hazard Class 6.1
UN-No 2786
Packing Group PG II
EmS No. F-A, S-A
Marine Pollutant This product contains a chemical which is listed as a severe marine pollutant according to IMDG/IMO

15. REGULATORY INFORMATION

International Inventories

Triphenyltin hydroxide
NDSL Listed
EINECS/ELINCS Listed
ENCS Listed
KECL Listed

USA

Federal Regulations

SARA 313
 Y

Chemical Name	CAS-No	Weight %
Triphenyltin hydroxide	76-87-9	80

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
RCRA
Pesticide Information

State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	Category	California Prop. 65
Triphenlytin hydroxide	76-87-9		Listed. Listed: July 1, 1992 Carcinogenic. Listed: March 18, 2002 Developmental toxin.

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Triphenlytin hydroxide	Listed.	Substance no. 2613 Listed. Substance no. 2612 Listed. Substance no. 2614 Listed. Substance no. 2615 Listed. Substance no. 1953 Listed.		Listed.	Listed.

International Regulations

Mexico - Grade Mexico - Grade

Chemical Name	Category	Carcinogen Status	Exposure Limits
Triphenlytin hydroxide			0.1 mg/m ³

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 06-Jan-2011

Revision Summary

Update section 2 Update section 8 Update section 13

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End of MSDS