



# Safety Data Sheet

Preparation Date 06-May-2015

Revision date 30-Jun-2025

Revision Number: 8

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

### Identification of the product

**Product Description** SuperTin 4L

### Other means of identification

**Internal SDS code** RAM05  
**UN/ID no** UN 3020  
**Registration number(s)** 70506-212

### 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

UPL NA Inc.  
PO Box 12219  
Research Triangle Park, NC 27709-12219

### 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 and Drug Safety (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 - Inhalation (Dusts/Mists)	Category 3
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

Toxic if inhaled  
HARMFUL IF SWALLOWED  
Causes serious eye damage  
Causes skin irritation  
Suspected of causing cancer  
Suspected of damaging fertility or the unborn child  
Causes damage to organs through prolonged or repeated exposure

**Appearance** white**Physical state** Liquid**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  
 Do NOT induce vomiting  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 Rinse mouth

**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-%
Triphenyltin hydroxide	76-87-9	40

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.
<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**

<b>Most Important Symptoms and Effects</b>	Causes serious eye damage. Causes skin irritation.
--	--

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

<b>Notes to physician</b>	Treat symptomatically.
---------------------------	------------------------

**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**

<b>Personal Precautions</b>	Avoid contact with skin and eyes. Use personal protective equipment. In case of inadequate ventilation wear respiratory protection. Remove all sources of ignition. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.
-----------------------------	--

**Environmental Precautions**

<b>Environmental precautions</b>	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**

<b>Methods for Clean-Up</b>	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** Do not get in eyes, on skin, or on clothing. Do not breathe vapours or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing and eye/face protection. Wash face, hands and any exposed skin thoroughly after handling.

**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
Triphenyltin hydroxide	STEL: 0.2 mg/m <sup>3</sup> Sn TWA: 0.1 mg/m <sup>3</sup> Sn	(vacated) TWA: 0.1 mg/m <sup>3</sup> Sn (vacated) S*

**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**

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. 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

### 9.1 Information on basic physical and chemical properties

**Appearance** white  
**Physical state** Liquid  
**Odor** Slight  
**color** No information available

Property	VALUES	Remarks/ Method
pH	7.8	None known
Melting point/freezing point		None known
Boiling Point/Range		None known
Flash Point	> 200 °C	None known
Evaporation Rate		None known
Flammability (solid, gas)		None known
Specific gravity		None known
Bulk density	10 lb/gal	None known
Water solubility		None known
Solubility in Other Solvents	Disperses to form a suspension	None known
Partition coefficient: n-octanol/water		None known
Autoignition temperature		None known

Decomposition temperature  
Viscosity

None known  
None known

## 9.2 OTHER INFORMATION- NONE

## 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

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

## 11. Toxicological Information

### Information on Likely Routes of Exposure

#### Product information

SuperTin 4L:  
Oral LD50 = 250 mg/kg in male rats  
Oral LD50 = 315 mg/kg in female rats  
Dermal LD50 = 2000 mg/kg in rabbits  
Inhalation 4 hr LC50 > 0.29 mg/l < 1.96 mg/L male and female rats

Eye = moderate to severely irritating to the eyes  
Skin = moderate to severe skin irritation  
Rats and mice exhibited non-specific weight loss and reduced food consumption upon ingestion. In tests with laboratory animals, ingestion produced altered lymphocyte, white blood cell, and immunoglobulin counts. Repeated inhalation produced lung and respiratory irritation and edema in rats.

#### Inhalation

Toxic if inhaled.

#### Eye contact

Causes irreversible eye damage.

#### Skin contact

Irritating to skin. May be harmful if absorbed through the skin.

#### Ingestion

Harmful 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.

**Reproductive effects**

**STOT - Single Exposure**

**STOT - Repeated Exposure**

**Aspiration hazard**

Not Available.

no data available.

no data available.

No information available.

**Numerical Measures of Toxicity - Product information**

<b>LD50 Oral</b>	250-315 mg/kg (rat)
<b>LD50 Dermal</b>	2000 mg/kg (rabbit)
<b>LC50 Inhalation</b>	>0.29 - <1.96 mg/l (4-hr) (rat)

## 12. Ecological Information

Yes - when shipped in bulk.

**ecotoxicity**

Supertin 4L

96 hr LC50 Rainbow trout = 0.049 mg/L

Channel catfish = 2.5 ppm

Daphnia magna 48 hr EC50 = 0.012 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 can be 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**

UN/ID no	UN 3020
Proper shipping name	Organotin pesticides, liquid, toxic, (Triphenyltin hydroxide 40%)
Hazard class	6.1
Packing group	PG II
IMDG - Marine Pollutant	Yes - when shipped in bulk.

**TDG**

UN/ID no	UN3020
Proper shipping name	Organotin pesticides, liquid, toxic (Triphenyltin hydroxide 40%)
Hazard class	6.1
Packing group	PG II
Marine Pollutant: Y or N [List Ingredient(s) with %]	Marine pollutant.

**IATA**

UN/ID no	UN 3020
Proper shipping name	Organotin pesticides, liquid, toxic (Triphenyltin hydroxide 40%)
Hazard class	6.1
Packing group	PG II
Description	IMDG - Marine Pollutant

**IMDG**

UN/ID no	UN 3020
Proper shipping name	Organotin pesticides, liquid, toxic (Triphenyltin hydroxide 40%)
Hazard class	6.1
Packing group	PG II
EmS No.	F-A, S-A
Environmental hazards	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. 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.**

**International Inventories**

USINV	Not present
DSL/NDSL	Not present
EINECS/	Not Present
ELINCS	
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/NDL** - 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

#### CERCLA

Not applicable

#### CERCLA

#### RCRA

#### Pesticide Information

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Triphenyltin hydroxide 76-87-9 ( 40 )			X	

### State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Component	California Prop. 65	
Triphenyltin hydroxide 76-87-9 ( 40 )	Carcinogen Developmental	
Chemical name	CAS No	CATEGORY
Triphenyltin hydroxide	76-87-9	Carcinogen

#### Prop 65 Pictogram



#### Prop 65 Warning Statement California Proposition 65

#### WARNING

This product can expose you to chemicals 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)

### State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Triphenyltin hydroxide - 76-87-9	X	X			

### International regulations

#### U.S. EPA Label information

EPA Pesticide registration number 70506-212

## 16. Other Information



---

<b>NFPA</b>	<b>HEALTH 4</b>	<b>flammability 1</b>	<b>Instability 0</b>	<b>Physical hazard -</b>
-------------	-----------------	-----------------------	----------------------	--------------------------

**Preparation Date** 06-May-2015

**Revision date** 30-Jun-2025

**Revision Summary**

Update section 2 Update section 4 Update section 6 Update section 11 Update section 14 Add TDG description

**Disclaimer**

UPL NA Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with other materials or in any process. Further, since the conditions and methods of use are beyond the control of UPL NA Inc. and UPL NA Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

**End of SDS**