



Safety Data Sheet

Preparation Date 06-May-2015

Revision date 04-Dec-2020

Revision Number: 6

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

Identification of the product

Product Description SuperTin 4L

Other means of identification

Product 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.
630 Freedom Business Center
Suite 402
King of Prussia, PA 19406

Emergency telephone number

Company Phone Number 1-800-438-6071
Emergency telephone number Chemtec: (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 - 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 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

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.

Skin contact	Rinse skin immediately with plenty of water for 15-20 minutes. Call a 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, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Ingestion	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 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

Personal Precautions Avoid contact with skin and eyes. Use personal protective equipment. Remove all sources of ignition.

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 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 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
Triphenyltin hydroxide	STEL: 0.2 mg/m ³ Sn TWA: 0.1 mg/m ³ Sn	(vacated) TWA: 0.1 mg/m ³ 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
Flammability (solid, gas)		None known
None known		Specific gravity
Bulk density	10 lb/gal	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		None known
Viscosity		None known

9.2 OTHER INFORMATION**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**

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

Fatal if inhaled.

Eye contact

Causes irreversible eye damage.

Skin contact

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

Ingestion

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.

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

LD50 Oral	250-315 mg/kg (rat)
LD50 Dermal	2000 mg/kg (rabbit)
LC50 Inhalation	>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 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

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.

ICAO

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

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/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

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

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

NFPA

HEALTH 4

flammability 1

Instability 0

Physical hazard -

Preparation Date

06-May-2015

Revision date

04-Dec-2020

Revision Summary

Update section 11 Update section 14

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End of SDS