

Safety Data Sheet

United Phosphorus, Inc.

Preparation Date 06-May-2015 Revision date 04-Nov-2015 **Revision Number: 2**

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

Product identifier

Product Description: SuperTin 4L

Other means of identification

Item#: RAM05 **UN-No** UN 3020 Not Available **Synonyms** Registration number(s) 70506-212

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 United Phosphorus Inc. 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 (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

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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 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 %	Trade secret
Triphentlytin 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

Eve 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 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

No information available.

Effects

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 information 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 the skin and the eyes. Use personal protective equipment. Remove all

sources of ignition.

Environmental Precautions

Environmental precautionsConsult 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 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.

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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 This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the **Engineering controls**

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 apporved 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

Physical state liquid white appearance

Odor Slight

color No information available

VALUES Property Remarks/ • Method

Hq 7.8

Melting point/freezing point No information available **Boiling Point/Range** No information available

Flash Point > 200 °C

Evaporation Rate No information available flammability (solid, gas) No information available

Flammability limit in air

Upper Flammability Limit No information available **Lower Flammability Limit** No information available

No information available vapor pressure **Vapor Density** No information available Specific gravity No information available Water solubility No information available Solubility in Other Solvents No information available Partition coefficient: n-octanol/waterNo information available **Autoignition temperature** No information available decomposition temperature No information available Viscosity, kinematic No information available

Dynamic viscosity No information available **Explosive properties** No information available

Oxidizing properties No information available

OTHER INFORMATION

Softening pointNo information availablemolecular weightNo information availableVOC ContentNo information availabledensityNo information available

Bulk density 10 lb/gal

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

Diphentlytin 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 femlae rats Dermal LD50 = 2000 mg/kg in rabbits

Inhalation 4 hr LC50 = 0.062 mg/L in male rats Inhalation 4 hr LC50 = 0.029 mg/L in female rats

Eye = moderate to severely rritating to the eyes

Skin = moderate to severe skin irritation

Rats and mice exhibited non-specific wieght loss and reduced food consumption upon ingestion. In tests with laboratory animals, ingestion produced altered lymphocyte, white

blood cell, and immunoglobin 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 Carcinogenicity

No information available.

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 Not Available.

STOT - Single Exposure STOT - repeated exposure Aspiration hazard No information available. No information 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: Inhalation LC50 0.062 mg/l

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 information available.

Bioaccumulation/ Accumulation

No information available.

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.

14. Transport Information

DOT

UN-No UN 3020

Proper shipping name Organotin pesticides, liquid, toxic, (Triphenyltin hydroxide 40%)

Hazard class 6.1 Packing group PG I

Marine Pollutant Yes - when shipped in bulk.

ICAO

UN-No UN 3020

Proper shipping name Organotin pesticdes, liquid, toxic (Triphenyltin hydroxide 40%)

Hazard class 6.1 Packing group PG I

Description Marine Pollutant

IATA

UN-No UN 3020

Proper shipping name Organotin pesticides, liquid, toxic (Triphenyltin hydroxide 40%)

Hazard class 6.1 Packing group PG I

Description Marine Pollutant

IMDG/IMO

UN-No UN 3020

Proper shipping name Organotin pesticides, liquid, toxic (Triphenyltin hydroxide 40%)

Hazard class 6.1
Packing group PG I
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

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 determined DSL/NDSL Not determined EINECS/ Does not comply

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ELINCS

ENCS
China
Does not comply
KECL
Does not comply
PICCS
Does not comply
AICS
Does not comply
TSCA
Does not comply
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

Υ

Chemical name	SARA 313 - Threshold Values		
Triphentlytin hydroxide - 76-87-9	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 No

CERCLA

<u>RCRA</u>

Pesticide Information

State Regulations

Component	CAS-No	CATEGORY	California Prop. 65	Non-additive, corrosive chemical type
Triphentlytin hydroxide 76-87-9 (40)	76-87-9	Carcinogen	Carcinogen Developmental	

State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Triphentlytin hydroxide	X	X			

International regulations

U.S. EPA Label information

EPA Pesticide registration number Not applied

16. Other Information

NFPA HEALTH 4 flammability 1 Instability 0 Physical hazard -

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Revision Summary
Correct spelling error(s)

Disclaimer

United Phosphorus, Inc. believes that the information and recommendations container herein (including data and

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End of MSDS