



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFICATION

Product Name: Super Tin® 80WP

HAZARDS IDENTIFICATION (0-minimal, 1-slight, 2-moderate, 3-serious, 4-severe)

NFPA: HEALTH-4 FIRE-1 REACTIVITY-0

HMIS: HEALTH-3 FIRE-1 REACTIVITY-0

MANUFACTURER

Company Name: Griffin Corporation
Address: PO Box 1847, Rocky Ford Road
Valdosta, GA 31603-1847

EMERGENCY PHONE NUMBERS

Griffin Corporation: (800) 237 1854
Chemtec: (800) 424 9300

2. COMPOSITION/ INFORMATION ON INGREDIENTS

Table with 4 columns: Component Name, % by Wt., CAS#, ACGIH TLV. Row 1: Triphenyltin Hydroxide, 80.0, 76-87-9, 0.1 mg Sn/m³

Components not precisely identified are proprietary or not hazardous.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

May cause severe eye irritation. May cause irritation to the upper respiratory tract and skin. May be fatal if swallowed. The US EPA has determined that TPTH causes birth defects in laboratory animals. Exposure to TPTH during pregnancy should be avoided. See below for route-specific details.

POTENTIAL HEALTH EFFECTS

Inhalation: Inhalation of particulates or vapors of organotins may irritate the upper respiratory tract. Over exposure may also produce coughing, headache, and nausea. The onset of these symptoms may be delayed until several hours after exposure.
Eye Irritation: May cause immediate or delayed severe eye irritation. The onset of irritation may not occur until several hours after exposure.
Skin Irritation: May produce severe irritation or contact dermatitis which may be delayed several hours. Prompt and thorough washing with soap and water will minimize or eliminate any potential dermal effects.
Skin Absorption: Organotins may be absorbed through the skin.



Hazards Identification continued:

Ingestion: The EPA has determined that Triphenyltin Hydroxide causes birth defects in laboratory animals. Exposure to TPTH during pregnancy should be avoided. May be fatal if swallowed.

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**4. FIRST AID MEASURES**

Inhalation: Remove victim to fresh air. Get professional medical attention immediately.

Eye Contact: Hold eyelids open and flush with water for 15-20 minutes until no evidence of chemical remains. Get professional medical attention immediately.

Skin Contact: Remove contaminated clothing and shoes. Flush with water for 15-20 minutes and wash with soap and water. NOTE TO PHYSICIAN: Application of a corticosteroid cream has been effective in treating severe skin irritation. If blisters develop, they may require abrasion to promote healing.

Ingestion: Never give fluids or induce vomiting if patient is unconscious or having convulsions. Get professional medical attention immediately.

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**5. FIRE FIGHTING MEASURES**

Flash Point & Method: Not determined

Flammable Limits: Not determined

Autoignition Temperature: Not determined

**FIRE FIGHTING HAZARDS & PROCEDURES**

General Hazard: Prevent human exposure to fire, smoke, fumes or products of combustion.

Extinguishing Media: Use dry chemical, carbon dioxide, water fog, or foam.

Fire Fighting Equipment: Wear protective clothing and self-contained breathing apparatus.

Hazardous Combustion Products: Diphenyltin hydroxide, monophenyltin hydroxides and metallic tin under burning conditions. (Technical: Organic acid vapors.)

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**6. ACCIDENTAL RELEASE MEASURES**

Spill or Leak Procedures: Sweep up and place in suitable (fiberboard) containers for later disposal.



**7. HANDLING AND STORAGE**

Storage Temperature: Store above -10°C and below 35°C. Average shelf life under proper storage conditions is 2 years.

General Information: Store in a clean, dry area. Do not store near feed, food or within the reach of children.

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**8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**

**PESTICIDE APPLICATORS & WORKERS**

These workers must refer to the Product Label and Directions For Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170.

**MANUFACTURING, COMMERCIAL BLENDING, & PACKAGING WORKERS**

Ventilation: Provide local exhaust ventilation and/or general dilution ventilation to meet published exposure limits.

Respiratory Protection: Where adequate ventilation is not available, wear an approved pesticide respirator.

Eye Protection: Wear protective eyewear to prevent contact with this substance.

Protective Clothing: Applicators and other handlers must wear coveralls over long-sleeved shirt and long pants, waterproof gloves, chemical-resistant footwear plus socks, chemical-resistant headgear for overhead exposure and chemical-resistant apron.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Vapor Pressure: Not determined

Density: 0.2623 g/mL

Solubility in Water: Wets in water to form a stable dispersion.

pH (1% dispersion in water): 9.3

Boiling Point: Not determined

Melting Point: Not determined

Odor: Slight odor

Color: Beige

Physical State: Fine powder

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**10. STABILITY AND REACTIVITY**

General: This material is stable under normal conditions.

Incompatible Materials: Acids and oxidizers

Conditions to Avoid: Direct sunlight causes degradation to an inorganic tin salt.

Hazardous Decomposition: Diphenyltin hydroxide, monophenyltin hydroxides and metallic tin under burning conditions. (Technical: Organic acid vapors.)

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Stability and Reactivity continued:

Hazardous Polymerization: Material is not known to polymerize.

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**11. TOXICOLOGICAL INFORMATION**

ACUTE

Inhalation:	Acute inhalation LC <sub>50</sub> = 0.039 mg/L (rat - 4 hour).
Eye Irritation:	Not determined
Skin Irritation:	Primary Irritation Index = 4.3. Considered to be a severe skin irritant. Material is not considered to be a contact skin sensitizer.
Skin Absorption:	Acute dermal LD <sub>50</sub> = 500 mg/kg.
Ingestion:	Oral LD <sub>50</sub> = 160 mg/kg.

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**12. ECOLOGICAL INFORMATION**

For detailed ecological information, write to the address listed in Section 1 of this Material Safety Data Sheet or call 912/242-8635 and ask for Regulatory Affairs.

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**13. DISPOSAL CONSIDERATIONS**

Comply with appropriate disposal regulations. Landfill solids at permitted sites. Use registered transporters.

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**14. TRANSPORT INFORMATION**

Department of Transportation (DOT):

Proper Shipping Name :	Organotin Pesticides, Solid, Toxic, N.O.S. (Triphenyltin Hydroxide 80%)
Class:	6.1
Identification Number:	UN 2786
Packing Group:	I
Special Notes:	MARINE POLLUTANT (bulk only)

International Air Transport Association (IATA):

Proper Shipping Name :	Organotin Pesticides, Solid, Toxic, N.O.S. (Triphenyltin Hydroxide 80%)
Class:	6.1
Identification Number:	UN 2786
Packing Group:	I



Transport Information continued:

International Maritime Organization (IMO):

Proper Shipping Name :	Organotin Pesticides, Solid, Toxic, N.O.S. (Triphenyltin Hydroxide 80%)
Class:	6.1
Identification Number:	UN 2786
Packing Group:	I
Special Notes:	MARINE POLLUTANT

15. REGULATORY INFORMATION

OSHA:	This product is considered hazardous under the OSHA Hazardous Communication Standard (29 CFR 1910.1200).
TSCA:	All product components are on the TSCA Chemical Inventory.
CERCLA:	Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to the state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304 and 40 CFR Part 302.
RCRA:	When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity and is not listed in 40 CFR 261.33.
SARA TITLE III	
302:	Not listed
311/312 Hazard Categories:	This product has been reviewed according to the EPA "Hazard Categories" and is categorized as acute and chronic health hazards (40 CFR 370.41).
313 Reportable Ingredients:	This product does not contain materials listed in Section 313 of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.

16. OTHER INFORMATION

REVISION SUMMARY

This Material Safety Data Sheet replaces the one dated 01/19/98 and has been revised using the standard Griffin Corporation ANSI Z400.1 compliant format. Changes were made in Section 14.

Super Tin® is a registered trademark of Griffin Corporation.

Other Information continued:

**The information in this Material Safety Data Sheet relates to this specific material. It may not be valid for this material if used in combination with any other materials or in any process. It is the users' responsibility to satisfy themselves as to the suitability and completeness of this information for their own particular use.**