

# SAFETY DATA SHEET

Revision Date 26-Mar-2024

**Revision Number** 3

## 1. Identification

### Product Name

### Tri-n-butylphenyltin

### Cat No. : H55596

CAS No Synonyms

Recommended Use Uses advised against Tributylphenylstannane. Laboratory chemicals. Food, drug, pesticide or biocidal product use.

960-16-7

# Details of the supplier of the safety data sheet

### **Company**

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

### Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

### 2. Hazard(s) identification

### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 3
Acute dermal toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Reproductive Toxicity	Category 1B
Specific target organ toxicity - (repeated exposure)	Category 1
Target Organs - Immune system, Central nervous system (CNS)	

### Label Elements

Signal Word Danger

### Hazard Statements

Toxic if swallowed Harmful in contact with skin Causes skin irritation Causes serious eye irritation May damage fertility. May damage the unborn child Causes damage to organs through prolonged or repeated exposure



#### **Precautionary Statements** Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear eye/face protection Do not breathe dust/fume/gas/mist/vapors/spray Response IF exposed or concerned: Get medical attention/advice Skin IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor/physician if you feel unwell If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse Eves IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eve irritation persists: Get medical advice/attention Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth Storage

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients			
Component CAS No Weight %			
Tributylph	enyltin 960-16-7	100	
4. First-aid measures   General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.			
Eye Contact   Rinse immediately with plenty of water, also unde     Immediate medical attention is required.		under the eyelids, for at least 15 minutes.	

Immediate medical attention is required. Wash off immediately with plenty of water for at least 15 minutes.
Remove to fresh air. If breathing is difficult, give oxygen. Immediate medical attention is required. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Do NOT induce vomiting. Call a physician or poison control center immediately.
No information available.
Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.		
Unsuitable Extinguishing Media	No information available		
Flash Point	> 110 °C / > 230 °F		
Method -	No information available		
Autoignition Temperature Explosion Limits	No information available		
Upper	No data available		
Lower	No data available		
Sensitivity to Mechanical Impac	t No information available		
Sensitivity to Static Discharge	No information available		

### Specific Hazards Arising from the Chemical

Do not allow run-off from fire-fighting to enter drains or water courses.

#### Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

### **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. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u> Health 3	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions Use personal protective equipment as required. Evacuate personnel to sat people away from and upwind of spill/leak. Ensure adequate ventilation.			
Environmental Precautions	contaminate ground water should be advised if signific		entering drains. Local authorities ned. See Section 12 for additional

Methods for Containment and Clean Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Up

### 7. Handling and storage

Handling

Do not breathe mist/vapors/spray. Use only under a chemical fume hood. Wear personal

	protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance.		
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.		
8. Ex	posure controls / personal protection		
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.		
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.		
Personal Protective Equipment			
Eye/face Protection	Tight sealing safety goggles. Face protection shield.		
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.		
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.		
Recommended Filter type:	Organic gases and vapours filter. Type A. Brown. conforming to EN14387.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		

9. Physical and chemical properties			
Physical State	I State Liquid		
Appearance	Colorless		
Odor	No information available		
Odor Threshold	No information available		
рН	No information available		
Melting Point/Range	No data available		
Boiling Point/Range	125 - 128 °C / 257 - 262.4 °F @ 0.1 mmHg		
Flash Point	> 110 °C / > 230 °F		
Evaporation Rate	No information available		
Flammability (solid,gas)	Not applicable		
Flammability or explosive limits			
Upper	No data available		
Lower	No data available		
Vapor Pressure	No information available		
Vapor Density	No information available		
Specific Gravity	1.125		
Solubility	slightly soluble		
Partition coefficient; n-octanol/water	No data available		
Autoignition Temperature	No information available		
Decomposition Temperature	No information available		
Viscosity	No information available		
Molecular Formula	C18 H32 Sn		
Molecular Weight	367.16		

# 10. Stability and reactivity

**Reactive Hazard** 

None known, based on information available

### Tri-n-butylphenyltin

Stability   Stable under normal conditions.		
Conditions to Avoid	Incompatible products. Excess heat.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)		
Hazardous Polymerization Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.	

# 11. Toxicological information

### Acute Toxicity

Product Information Component Information Toxicologically Synergistic No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure		
Irritation	No information available	
Sensitization	No information available	

The table below indicates whether each agency has listed any ingredient as a carcinogen.

### Carcinogenicity

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Tributylphenyltin	960-16-7	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information available				
Reproductive Effects	5	Experiments have shown reproductive toxicity effects on laboratory animals.				
Developmental Effec	ts	Developmental effects have occurred in experimental animals.				
Teratogenicity		No information available.				
STOT - single exposure STOT - repeated exposure		None known Immune system Central nervous system (CNS)				
Aspiration hazard		No information available				
Symptoms / effects,both acute and delayed		No information available				
Endocrine Disruptor Information		No information available				
Other Adverse Effects		The toxicological properties have not been fully investigated.				
12. Ecological information						

### Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Persistence and Degradability	May persist based on information available.
<b>Bioaccumulation/ Accumulation</b>	No information available.
Mobility	Is not likely mobile in the environment due its low water solubility.

# 13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

### 14. Transport information

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DOT	
UN-No	UN2788
Proper Shipping Name	Organotin compound, liquid, n.o.s.
Hazard Class	6.1
Packing Group	III
TDG	
UN-No	UN2788
Proper Shipping Name	Organotin compound, liquid, n.o.s.
Hazard Class	6.1
Packing Group	III
IATA	
UN-No	UN2788
Proper Shipping Name	Organotin compound, liquid, n.o.s.
Hazard Class	6.1
Packing Group	III
IMDG/IMO	
UN-No	UN2788
Proper Shipping Name	Organotin compound, liquid, n.o.s.
Hazard Class	6.1
Subsidiary Hazard Class	P
Packing Group	III
	15. Regulatory information

### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Tributylphenyltin	960-16-7	-	-	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

#### TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

#### **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Tributylphenyltin	960-16-7	-	-	-	-	-		-	-	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any

chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	Slight risk, Grade 1

### Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	· · · · · · · · · · · ·	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Tributylphenyltin	960-16-7	-	-	-

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Tributylphenyltin	960-16-7	Not applicable	Not applicable	Not applicable	Not applicable

#### Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

### Other International Regulations

	Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
L	Tributylphenyltin	960-16-7	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Revision Date Print Date Revision Summary	26-Mar-2024 26-Mar-2024 New emergency telephone response service provider.

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**