

## **Material Safety Data Sheet**

**T1736** 

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING		
	Toxic compound, do not ingest or inhale. Avoid all contact with this material. Irritating to skin, eyes, and the respiratory system. Environmental hazard. This material is very toxic to aquatic organisms and may cause long term adverse effects to the aquatic environment. Air sensitive material. Moisture sensitive material. Store under nitrogen.			
Section I. Chemical Product and Company Identification				
Chemical Name	Tributyl(2-pyridyl)tin			

Catalog Number	T1736	Supplier	TCI America 9211 N. Harborgate St.
Synonym	2-Pyridyltributyltin		Portland OR 1-800-423-8616
Chemical Formula	C <sub>17</sub> H <sub>31</sub> NSn		
CAS Number	17997-47-6	In case of Emergency	Chemtrec® (800) 424-9300 (U.S.)
		Call	(703) 527-3887 (International)

Section II.	Composition a	nd Informa	tion on Ing	gredients		
Chemical Name		CAS Number	Percent (%)	TLV/PEI		Toxicology Data
Tributyl(2-pyridyl)tin		17997-47-6	Min. 98.0 (GC)	Not available.		Not available.
Section III.	Hazards Identification					
Acute Health Effects	eye is characteriz or, occasionally, t Toxic if ingested death.	ed by redness, wat blistering. or inhaled. Avoid	ering, and itching	<ol> <li>Skin inflammation of with this material.</li> </ol>	is characte Overexpos	iratory system. Inflammation of the rized by itching, scaling, reddening ure may result in serious illness o when handling this compound.
Chronic Health Effects	MUTAGENIC EFF TERATOGENIC E DEVELOPMENTA		ble. ilable. ⁄ailable.	roduce general deterio	oration of h	ealth by an accumulation in one o
Section IV.	First Aid Meas	ures				
Eye Contact		Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.				
Skin Contact		In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.				
Inhalation		If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt o waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do no improve.				
Ingestion	Loosen tight clot resuscitation. Ex	INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive.				
Section V.	Fire and Explo	sion Data				
Flammability	May be combustil	ble at high temperat	ure. A	uto-Ignition	Not avail	able.
Flash Points	Not available.		Fla	mmable Limits	Not avail	able.
Combustion Products	These products a	re toxic carbon oxid	es (CO, CO₂), ni	rogen oxides (NO, NC	D₂), metallic	oxides.
Fire Hazards	Not available.					
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Continued on	Next Page		Emergend	y phone nun	nber	(800) 424-9300

Explosion Hazards		butyl(2-pyridyl)tin	Page	
	Risks of explosion of the product in presence Risks of explosion of the product in presence			
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.			
Section VI.	Consult with local fire authorities before attempting large scale fire-fighting operations.			
Spill Cleanup		ntally hazardous material. Air s	ensitive material. Moisture sensitive material.	
Instructions		nents or confined areas; dike	uch spilled material. Use water spray to reduce if needed. Eliminate all sources of ignition	
Section VII. H	Handling and Storage			
Handling and Storage Information	NITROGEN. Keep locked up. Keep away to container and store in a dry, cool place. A	from heat. Mechanical exhau void excessive heat and light ing. If ingested, seek medical tively.	MOISTURE SENSITIVE. STORE UNDER ist required. When not in use, tightly seal the . DO NOT ingest. Do not breathe gas/fumes advice immediately and show the container o	
Section VIII.	Exposure Controls/Personal P	Protection		
Engineering Controls			airborne concentrations of vapors below thein the intervention over is proximal to the work-station location.	
Personal Protection	Splash goggles. Lab coat. Vapor respirator. Inhalation of the product. Suggested prot this product.	. Boots. Gloves. A MSHA/NIC ective clothing might not be su	OSH approved respirator must be used to avoin officient; consult a specialist BEFORE handling	
Exposure Limits	Not available.			
Section IX.	Physical and Chemical Proper	ties		
Physical state @ 20°C	Liquid. (Light Yellow Clear.)	Solubility	Soluble in benzene, ether.	
Specific Gravity	1.15 (water=1)			
Molecular Weight	368.14	Partition Coefficient	Not available.	
Boiling Point	132 to 134℃ (269.6 to 273.2°F) @ 1 mmHg	Vapor Pressure	Not available.	
Melting Point	Not available.	Vapor Density	Not available.	
Refractive Index	1.515-1.517	Volatility	Not available.	
Critical Temperature	Not available.	Odor	Not available.	
Viscosity	Not available.	Taste	Not available.	
Section X.	Stability and Reactivity Data			
Stability	This material is stable if stored under proper	conditions. (See Section VII for	or instructions)	
Conditions of Instability	Avoid excessive heat and light.	Avoid excessive heat and light.		
Incompatibilities	Reactive with strong oxidizing agents.			
Section XI.	Toxicological Information			
RTECS Number	Not available.			
Routes of Exposure	Eye Contact. Ingestion. Inhalation.			
Toxicity Data	Not available.			
Chronic Toxic Effects	CARCINOGENIC EFFECTS : Not available. MUTAGENIC EFFECTS : Not available. TERATOGENIC EFFECTS : Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated exposure to an highly toxic mater many human organs.		ioration of health by an accumulation in one c	

T1736	Tributyl(2-pyridyl)tin Page	e 3
Acute Toxic Effects	Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of t eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddenir or, occasionally, blistering. Toxic if ingested or inhaled. Avoid prolonged contact with this material. Overexposure may result in serious illness death. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.	ing,
Section XII.	Ecological Information	
Ecotoxicity	Not available.	
Environmental Fate	Not available.	
Section XIII.	Disposal Considerations	
Waste Disposal	Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material wit combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe federal, state and local regulations when disposing of the substance.	
Section XIV.	Transport Information	
DOT Classification	DOT Class 6.1: Toxic material.	
PIN Number	UN2788	
Proper Shipping Name	Organotin compounds, liquid, n.o.s.	
Packing Group (PG)	III Severe Marine Pollutant	
DOT Pictograms	PORON MARTIN	

Section XV. O	ther Regulatory Information and Pictograms
TSCA Chemical Inventory (EPA)	<ul> <li>This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:</li> <li>(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.</li> <li>(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on an MSDS sheet.</li> </ul>
WHMIS Classification (Canada)	CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).
EINECS Number (EEC)	Not available.
EEC Risk Statements	R23/24/25- Toxic by inhalation, in contact with skin and if swallowed. R36/37/38- Irritating to eyes, respiratory system and skin. R50- Very toxic to aquatic organisms. R53- May cause long-term adverse effects in the aquatic environment.
Japanese Regulatory Data	Not available.

## Section XVI. Other Information

## Version 1.0 Validated on 4/2/2007. Printed 4/2/2007.

## Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

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