

## T1473 Material Safety Data Sheet

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
	Combustible material; avoid heat and sources of ignition. Toxic compound, do not ingest or inhale. Avoid all contact with this material. Environmental hazard. This material is very toxic to aquatic organisms and may cause long term adverse effects to the aquatic environment. Irritating to skin, eyes, and the respiratory system. Readily absorbed through skin. Moisture sensitive material. Refrigerate.	

Section I. Chemical Product and Company Identification			
Chemical Name	Tri-n-butyltin Hydr	tide [Reducing Reagent]	
Catalog Number	T1473	Supplier	TCI America 9211 N. Harborgate St.
Synonym	Not available.		Portland OR 1-800-423-8616
Chemical Formula	C <sub>12</sub> H <sub>28</sub> Sn		
CAS Number	688-73-3	In case of Emergency Call	Chemtrec® (800) 424-9300 (U.S.) (703) 527-3887 (International)

Section II.	Composition ar	nd Informat	tion on Ing	redients		
Chemical Name		CAS Number	Percent (%)	TLV/PE	EL	Toxicology Data
Tri-n-butyltin Hyd	dride [Reducing Reagent]	688-73-3	Min. 96.0 (GC)	Not available.		Mouse LD <sub>50</sub> (intraperitoneal) 0.75 mg/kg
Section III.	Hazards Identif	fication				
Acute Health Effects	death. Irritating to eyes ar eye is characterize or, occasionally, bl Readily absorbed t	nd skin on contact. d by redness, wat istering. hrough skin.	Inhalation caus ering, and itching	es irritation of the lu J. Skin inflammatior	ngs and resp n is character	ure may result in serious illness or iratory system. Inflammation of the rized by itching, scaling, reddening, when handling this compound.
Chronic Health Effects	MUTAGENIC EFFE TERATOGENIC EF DEVELOPMENTAL Repeated exposur	CARCINOGENIC EFFECTS : Not available. MUTAGENIC EFFECTS : Not available. TERATOGENIC EFFECTS : Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.				
Section IV.	First Aid Measu	ires				
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						lothing such as a collar, tie, belt or ntion if respiration problems do not
Ingestion	Loosen tight cloth resuscitation. Exa	ing such as a col mine the lips and	llar, tie, belt or w mouth to ascert	vaistband. If the vi	ctim is not b ues are dam	III not reenter the mouth and throat preathing, perform mouth-to-mouth aged, a possible indication that the
Section V.	Fire and Explos	sion Data				
Flammability	Combustible.		А	uto-Ignition	Not avail	able.
Flash Points	40 ℃ (104 °F).		Flai	nmable Limits	Not avail	able.
Combustion Products	These products are	e toxic carbon oxid	_ es (CO, CO₂), me	etallic oxides.		

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*Emergency phone number* (800) 424-9300

T1473	Tri-n-but	t <b>yltin Hydride</b> <sub>[Reducing</sub>	Reagent] Page 2
Explosion Hazards	Risks of explosion of the product in preser Risks of explosion of the product in preser		
Fire Fighting Media and Instructions		pray or fog. Cool containing ves	sels with water jet in order to prevent pressure attempting large scale fire-fighting operations.
Section VI.	Accidental Release Measures	S	
Spill Cleanup Instructions	through skin. Moisture sensitive material. Keep away from heat. Mechanical exha non-combustible material. DO NOT get	ust required. Stop leak if withou water inside container. DO NC s, basements or confined areas;	Irritating material. Material is readily absorbed ut risk. Absorb with DRY earth, sand or other DT touch spilled material. Use water spray to dike if needed. Consult federal, state, and/or
Section VII.	Handling and Storage		
Handling and Storage Information	MOISTURE SENSITIVE. REFRIGERATE excessive heat and light. DO NOT ingest	. Keep locked up. Keep away from . Do not breathe gas/fumes/ vap y and show the container or the la	. READILY ABSORBED THROUGH SKIN. om heat. Mechanical exhaust required. Avoid por/spray. Wear suitable protective clothing. If abel. Treat symptomatically and supportively. , acids, moisture.
Section VIII.	Exposure Controls/Personal	Protection	
Engineering Controls			airborne concentrations of vapors below their lower is proximal to the work-station location.
Personal Protection			DSH approved respirator must be used to avoid ufficient; consult a specialist BEFORE handling
Exposure Limits	Not available.		
Section IX.	Physical and Chemical Prope	erties	
Physical state @ 20°C	Liquid. (Light Yellow Clear.)	Solubility	Not available.
Specific Gravity	1.098 (water=1)		
Molecular Weight	291.06	Partition Coefficient	Not available.
Boiling Point	80℃ (176℉) @ 0.4 mmHg	Vapor Pressure	Not available.
Melting Point	Not available.	Vapor Density	Not available.
Refractive Index	1.473	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 prop	er conditions. (See Section VII fo	or instructions)
Conditions of Instability	Avoid excessive heat and light. Moisture s	ensitive.	
Incompatibilities	Reactive with strong oxidizing agents, acid	ds, moisture.	
Section XI.	Toxicological Information		
RTECS Number	WH8675000		
Routes of Exposure	Eye Contact. Ingestion. Inhalation.		
Toxicity Data	Mouse $LD_{50}$ (intraperitoneal) 0.75 mg/kg		
Chronic Toxic Effects	CARCINOGENIC EFFECTS : Not availabl MUTAGENIC EFFECTS : Not available. TERATOGENIC EFFECTS : Not available DEVELOPMENTAL TOXICITY: Not availabl Repeated exposure to an highly toxic main many human organs.	Ie.	ioration of health by an accumulation in one or
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T1473	Tri-n-butyltin Hydride [Reducing Reagent] Page 3
Acute Toxic Effects	Toxic if ingested or inhaled. Avoid prolonged contact with this material. Overexposure may result in serious illness or death. Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Readily absorbed through skin. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.
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 with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.
Section XIV.	Transport Information
DOT Classification	DOT Class 3: Flammable material
PIN Number	UN1993
Proper Shipping Name	Flammable liquid, n.o.s.
Packing Group (PG)	111
DOT Pictograms	

Section XV. Of	ther Regulatory Information and Pictograms
TSCA Chemical Inventory (EPA)	This compound is <b>ON</b> the EPA Toxic Substances Control Act (TSCA) inventory list.
WHMIS Classification (Canada)	CLASS B-3: Combustible liquid with a flash point between 37.8 °C (100 °F) and 93.3 °C (200 °F). CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).
EINECS Number (EEC)	211-704-4
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

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## 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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