



Material Safety Data Sheet

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SECTION 1: Product Identification

Product name	t-Butyldicyclohexylphosphine, 97%
CAS #	93634-87-8
Catalog #	0154250
Chemical family	Organophosphine

SECTION 2: Composition, Information on Ingredients

Component	%	CAS #	EINECS #	Hazard Symbol	R-Phrase
t-Butyldicyclohexylphosphine	97	93634-87-8	none	F	17

SECTION 3: Hazard Identification

Emergency overview	Highly Flammable. Spontaneously flammable in air.
Eye contact	May cause eye irritation.
Skin contact	May cause skin irritation. May be harmful if absorbed through the skin.
Inhalation	May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
Ingestion	May be harmful if swallowed.
Chronic health effects	Not available.

SECTION 4: First Aid Measures

Eye exposure	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin exposure	Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Inhalation	Remove from exposure to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, pain, etc. In such cases seek immediate medical assistance.
Ingestion	If victim is conscious and alert, wash out mouth with water. Get medical aid immediately.

SECTION 5: Fire Fighting Measures

General information	If this material is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing. Flammable. Pyrophoric material. If involved in a fire this material may emit toxic organic fumes.
Extinguishing media	Dry chemical, carbon dioxide, or chemical foam.

SECTION 6: Accidental Release Measures

Spill and leak procedures	Small spills can be mixed with vermiculite or sodium carbonate or other inert material and swept up. Remove all sources of ignition. Ventilate area.
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SECTION 7: Handling and Storage	
Handling	Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood. Handle under nitrogen.
Storage	Keep tightly closed. Keep away from heat, sparks, and open flame. Store under nitrogen.
SECTION 8: Exposure Controls and Personal Protection	
Eye protection	Always wear approved safety glasses when handling a chemical substance in the laboratory.
Skin protection	Wear protective gloves.
Ventilation	Material may form a fine dust. If possible, handle the material in an efficient fume hood.
Respirator	If ventilation is not available a respirator should be worn. The use of respirators requires Respirator Protection Program to be in compliance with 29CFR 1910.134.
SECTION 9: Physical and Chemical Properties	
Appearance	Colorless liq.
Odor	Pungent odor
Melting point	No data
Boiling point	No data
Flash point	No data
Solubility in water	Insoluble
Specific gravity	0.939 g/cm ³
Molecular formula	C16H31P
Molecular weight	254.40
SECTION 10: Stability and Reactivity	
Stability	Air and moisture sensitive liquid
Hazardous polymerization	No hazardous polymerization.
Conditions to avoid	Catches fire if exposed to air.
Incompatibilities with other materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon dioxide, carbon monoxide, phosphorus oxide and organic fumes.
SECTION 11: Toxicological Information	
RTECS Data	No information available in the RTECS files.
Carcinogenic effects	No data available.
Mutagenic effects	No data available.
Tetragenic effects	No data available.
SECTION 12: Ecological Information	
Ecological information	No information available.
SECTION 13: Disposal Considerations	
Dispose of in a manner consistent with federal, state, and local regulations.	

SECTION 14: Transport Information	
Shipping name (CFR)	Pyrophoric liquid, organic, N.O.S.
Hazard class (CFR)	4.2
Additional hazard class (CFR)	NA
Packing group (CFR)	I
UN ID number (CFR)	2845
Shipping name (IATA)	Pyrophoric liquid, organic, N.O.S. (Not permitted for air transport).
Hazard class (IATA)	4.2
Additional hazard class (IATA)	NA
Packing group (IATA)	I
UN ID number (IATA)	2845
SECTION 15: Regulatory Information	
TSCA	Not listed on the TSCA inventory.
SARA	Not reportable under SARA Title 313.
SECTION 16: Other Information	
Preparation date	11.10.05
Revision date	01.12.12
<p>The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.</p>	