



Material Safety Data Sheet

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SECTION 1: Product Identification

Product name	Di-i-propylchlorophosphine, 97%
CAS #	40244-90-4
Catalog #	0153500
Chemical family	Organophosphorus ligand

SECTION 2: Composition, Information on Ingredients

Component	%	CAS #	EINECS #	Hazard Symbol	R-Phrase
Di-i-propylchlorophosphine	97	40244-90-4	none	F C	11 34

SECTION 3: Hazard Identification

Emergency overview	Flammable. Causes burns. Moisture sensitive.
Eye contact	Causes burns to the eyes.
Skin contact	Causes burns to the skin. Harmful in contact with skin.
Inhalation	Causes chemical burns to the respiratory tract.
Ingestion	Causes gastrointestinal tract burns. May cause headache. May cause nausea and vomiting.
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	Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

SECTION 5: Fire Fighting Measures

General information	Flammable liquid and vapor. 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 liquid and vapor. Will burn if involved in a fire. If involved in a fire this material may emit toxic organic fumes and vapors of phosphorus pentoxide.
Extinguishing media	Use 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.
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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.
Storage	Store in a cool, dry place. Keep away from the ignition source. Store in a tightly closed container. Flammable area. Store under an inert atmosphere of nitrogen or argon.
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	Always handle 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 liquid
Odor	Sharp, acidic odor
Melting point	No data
Boiling point	69 °C/33.00mm Hg
Flash point	3 °C (37.40 °F)
Solubility in water	Reacts with water
Specific gravity	0.9590g/cm ³
Molecular formula	C ₆ H ₁₄ PCl
Molecular weight	152.60
SECTION 10: Stability and Reactivity	
Stability	Air and moisture sensitive liquid
Hazardous polymerization	No hazardous polymerization
Conditions to avoid	Incompatible materials, ignition sources, exposure to moist air or water
Incompatibilities with other materials	Strong oxidizing agents.
Hazardous decomposition products	Hydrogen chloride, phosphine, carbon monoxide, oxides of phosphorus, carbon dioxide.
SECTION 11: Toxicological Information	
RTECS Data	CAS# 40244-90-4 unlisted.
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)	Flammable liquid, corrosive, N.O.S.
Hazard class (CFR)	3 (8)
Additional hazard class (CFR)	NA
Packing group (CFR)	II
UN ID number (CFR)	2924
Shipping name (IATA)	Flammable liquid, corrosive, N.O.S.
Hazard class (IATA)	3 (8)
Additional hazard class (IATA)	NA
Packing group (IATA)	II
UN ID number (IATA)	2924
SECTION 15: Regulatory Information	
TSCA	Not listed in the TSCA inventory
SARA	Not reportable under SARA Title 313.
SECTION 16: Other Information	
Preparation date	14.05.05
Revision date	20.08.12
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