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SECTION 1: Product Identification

Product name	2-Di-t-butylphosphino-2',4',6'-tri-i-propyl-1,1'-biphenyl, min.98% t-Bu-X-PHOS
CAS #	564483-19-8
Catalog #	0158411
Chemical family	Organophosphorus ligand

SECTION 2: Composition, Information on Ingredients

Component	%	CAS #	EINECS #	Hazard Symbol	R-Phrase
2-Di-t-butylphosphino-2',4',6'-tri-i-propyl-1,1'-biphenyl	98	564483-19-8	none	Xn	20/21/22

SECTION 3: Hazard Identification

Emergency overview	Harmful by inhalation, in contact with skin and if swallowed.
Eye contact	May cause irritation of the eyes
Skin contact	May be harmful if absorbed through skin. May cause irritation of the skin
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	Harmful if swallowed.
Chronic health effects	No information available

SECTION 4: First Aid Measures

Eye exposure	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.
Skin exposure	Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
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, give 2-4 cupfuls of water. Get medical aid.

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. If involved in a fire this material may emit toxic organic fumes.
Extinguishing media	Use CO ₂ , dry powder or foam

SECTION 6: Accidental Release Measures

Spill and leak procedures	Small spills can be mixed with vermiculite or sodium carbonate and swept up.
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SECTION 7: Handling and Storage	
Handling	Don't get in eyes, on skin, or clothing.
Storage	Store in a tightly closed container. Prolonged contact with air may lead to decomposition of the product.
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	White xtl.
Odor	None
Melting point	145-150°C
Boiling point	No data
Flash point	No data
Solubility in water	Insoluble
Specific gravity	No data
Spec Rotation	No
Molecular formula	C ₂₉ H ₄₅ P
Molecular weight	424.64
SECTION 10: Stability and Reactivity	
Stability	Air and moisture stable solid.
Hazardous polymerization	No hazardous polymerization
Conditions to avoid	None
Incompatibilities with other materials	Strong oxidizing agents, halogens.
Hazardous decomposition products	Carbon monoxide, oxides of phosphorus, carbon dioxide, 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.
Tetrotogenic 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)	Non-hazardous
Hazard class (CFR)	NA
Additional hazard class (CFR)	NA
Packing group (CFR)	NA
UN ID number (CFR)	NA
Shipping name (IATA)	Non-hazardous
Hazard class (IATA)	NA
Additional hazard class (IATA)	NA
Packing group (IATA)	NA
UN ID number (IATA)	NA
SECTION 15: Regulatory Information	
TSCA	Non listed in the TSCA inventory
SARA	Not reportable under SARA Title 313
SECTION 16: Other Information	
Preparation date	28.10.08
Revision date	03.02.12
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