



## Material Safety Data Sheet

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### SECTION 1: Product Identification

<b>Product name</b>	cis-1,2-Bis(diphenylphosphino)ethylene, 98+%
<b>CAS #</b>	983-80-2
<b>Catalog #</b>	0150900
<b>Chemical family</b>	Organophosphine ligand

### SECTION 2: Composition, Information on Ingredients

<b>Component</b>	<b>%</b>	<b>CAS #</b>	<b>EINECS #</b>	<b>Hazard Symbol</b>	<b>R-Phrase</b>
cis-1,2-Bis(diphenylphosphino)-ethylene	98+	983-80-2	213-569-7	XI	36/37/38

### SECTION 3: Hazard Identification

<b>Emergency overview</b>	Irritating to eyes, respiratory system and skin.
<b>Eye contact</b>	Causes slight to mild irritation of the eyes.
<b>Skin contact</b>	Causes slight to mild irritation of the skin.
<b>Inhalation</b>	Inhalation of dust may lead to irritation of the respiratory tract.
<b>Ingestion</b>	No information is available on the physiological effects of ingestion.
<b>Chronic health effects</b>	Not available.

### SECTION 4: First Aid Measures

<b>Eye exposure</b>	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
<b>Skin exposure</b>	Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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

<b>General information</b>	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.
<b>Extinguishing media</b>	Use water spray, dry chemical, carbon dioxide, or chemical foam.

### SECTION 6: Accidental Release Measures

<b>Spill and leak procedures</b>	Small spills can be mixed with vermiculite or sodium carbonate or other inert material and swept up.
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SECTION 7: Handling and Storage	
<b>Handling</b>	Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes
<b>Storage</b>	Store in a cool, dry place. Store in a tightly closed container.
SECTION 8: Exposure Controls and Personal Protection	
<b>Eye protection</b>	Always wear approved safety glasses when handling a chemical substance in the laboratory.
<b>Skin protection</b>	Wear protective gloves.
<b>Ventilation</b>	Material may form a fine dust. If possible, handle the material in an efficient fume hood.
<b>Respirator</b>	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	
<b>Appearance</b>	White xtl.
<b>Odor</b>	None
<b>Melting point</b>	125 – 127 °C
<b>Boiling point</b>	No data
<b>Flash point</b>	No data
<b>Solubility in water</b>	Insoluble
<b>Specific gravity</b>	No data
<b>Molecular formula</b>	C <sub>26</sub> H <sub>22</sub> P <sub>2</sub>
<b>Molecular weight</b>	396.41
SECTION 10: Stability and Reactivity	
<b>Stability</b>	Air and moisture stable solid.
<b>Hazardous polymerization</b>	No hazardous polymerization.
<b>Conditions to avoid</b>	Incompatible materials.
<b>Incompatibilities with other materials</b>	Oxygen, oxygen agents, halogens
<b>Hazardous decomposition products</b>	Carbon dioxide, carbon monoxide, phosphorus oxide and organic fumes.
SECTION 11: Toxicological Information	
<b>RTECS Data</b>	No information available in the RTECS files.
<b>Carcinogenic effects</b>	No data available.
<b>Mutagenic effects</b>	No data available.
<b>Tetratogenic effects</b>	No data available.
SECTION 12: Ecological Information	
<b>Ecological information</b>	No information available.
SECTION 13: Disposal Considerations	
Dispose of in a manner consistent with federal, state, and local regulations.	

SECTION 14: Transport Information	
<b>Shipping name (CFR)</b>	Non hazardous
<b>Hazard class (CFR)</b>	NA
<b>Additional hazard class (CFR)</b>	NA
<b>Packing group (CFR)</b>	NA
<b>UN ID number (CFR)</b>	NA
<b>Shipping name (IATA)</b>	Non hazardous
<b>Hazard class (IATA)</b>	NA
<b>Additional hazard class (IATA)</b>	NA
<b>Packing group (IATA)</b>	NA
<b>UN ID number (IATA)</b>	NA
SECTION 15: Regulatory Information	
<b>TSCA</b>	Not listed in the TSCA inventory
<b>SARA</b>	Not reportable under SARA Title 313.
SECTION 16: Other Information	
<b>Preparation date</b>	20.01.04
<b>Revision date</b>	10.02.12
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