

Material Safety Data Sheet

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SECTION 1: Product Identification							
Product name	1,2-Bis(phenylphosphino)ethane (10 wt.% in hexane)						
CAS #	18899-64-4						
Catalog #	0159907						
Chemical family	Organophosphine ligand						
	Organophosphine figure						
SECTION 2: Composition, Information on Ingredients							
Component		%	CAS#	EINECS #	Hazard Symbol	R-Phrase	
1,2-Bis(phenylphosphino)ethane		10	18899-64-4	none	F	17	
Hexane		90	110-54-3	203-777-6	F XN N	11 38 48/20	
						51/53 62 65 67	
SECTION 3: Hazard Identification							
Emergency overview					ry tract.		
Eye contact	Cause severe irritation of the eyes.						
Skin contact	Causes severe irritation of the skin.						
Inhalation	Causes severe irritation of the respiratory tract. High concentration may cause						
	damage of central nervous system.						
Ingestion				ratory tract. Ma	y cause vomiting an	nd headache.	
Chronic health effects	Not a	vailab	le.				
		SE	CTION 4: Firs	st Aid Measur	ces		
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	Wash the affected area with water. Remove contaminated if necessary. Seek						
	medical assistance if irritation persists.						
Inhalation	Remove from exposure to fresh air immediately. If not breathing, give artificial						
	respiration. If breathing is difficult, give oxygen. In such cases seek immediate						
	medical assistance.						
Ingestion	Do NOT induce vomiting without medical directing. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.						
	alert,	give 2	-4 cuptuls of mi	lk or water. Get	medical aid immed	nately.	
		SEC	ΓΙΟΝ 5: Fire I	Fighting Meas	sures		
General information					e, wear a self-cor	ntained breathing	
					SH (approved or eq		
	protective gear. If involved in fire material may emit toxic fumes and phosphorus oxides.						
Extinguishing media				oxide or approp	riate chemical foam	1.	
	SECTION 6: Accidental Release Measures						
Spill and leak							
procedures	If spilled, all personnel must be immediately evacuated and the area sealed off. The material may ignite releasing toxic and corrosive fumes of phosphorus						
procedures	pentoxide. Small spills can be mixed with vermiculite or other suitable inert						
	_		and placed in a s			inci buitubic illeit	
	40301	como (ma praeca m a s	artable containe	**		

	SECTION 7: Handling and Storage					
Handling	SECTION 7: Handling and Storage Do not get in eyes, on skin, or on clothing. Keep away from heat. Material					
Handing	should be transferred under an inert atmosphere of nitrogen or argon in a					
	efficient fume hood.					
Storage	Store in a cool, dry place. Keep away from heat. Store in a tightly closed					
Storage	container under an inert atmosphere.					
	container under an mert atmosphere.					
CECTION 9. Expansion Controls and Davis and Davis at						
	CTION 8: Exposure Controls and Personal Protection Always wear approved safety glasses when handling a chemical substance in the					
Eye protection	laboratory.					
Clain protection	Wear protective gloves.					
Skin protection Ventilation	Handling material in an efficient fume hood.					
Respirator	Follow the OSHA respirator regulations found in 29CFR 1910.134 or European					
Kespirator	Standard EN 149. Always use a NIOSH or European Standard EN 149 approved					
	respirator when necessary.					
	respirator when necessary.					
	SECTION 0. Physical and Chamical Proparties					
A x x x x x x x x x x x x x x x x x x x	SECTION 9: Physical and Chemical Properties Colorless liquid.					
Appearance Odor	1					
	Pungent and noxious odor (for hexane). 68 °C (for hexane)					
Boiling point Flash point	-7 °F (for hexane)					
Solubility in water	Insoluble.					
Specific gravity	No data					
Molecular formula	C14H16P2					
Molecular weight	246.23					
Wioleculai weight	240,23					
	SECTION 10: Stability and Reactivity					
Stability	Air-sensitive liquid					
Hazardous	No hazardous polymerization					
polymerization	Two nazardous porymenzaron					
Conditions to avoid	Contact with oxidizing agents and ignition sources, prolonged contact with air.					
Incompatibilities with	Strong oxidizing agents.					
other materials						
Hazardous decompo-	Carbon monoxide, oxides of phosphorus, carbon dioxide, organic fumes.					
sition products						
	SECTION 11: Toxicological Information					
RTECS Data	No information available on title compound. For hexane Standard Draize Test					
	(rabbit); 10mg (mild). Inhalation (human); TCLo: 190ppm/8W. Oral (rat);					
	LD50: 28710mg/kg. Inhalation (rat); LC50: 48000ppm/4H. Intraperitoneal (rat);					
	LDLo: 9100mg/kg. Intravenous (mouse); LDLo: 831mg/kg. Inhalation (rat);					
	TCLo: 2000ppm/12H/24W-I. Acts a general anesthetic, respiratory depression,					
	altered sleep time, effects on nerves, decreased weight gain, muscle weakness,					
	and changes to the liver and blood. Toxic effects observed in the embryo and					
G	fetus of test animals.					
Carcinogenic effects	No data available.					
Mutagenic effects	Genetic effects observed in mammalian cell analysis.					
Tetratogenic effects	Toxic reproductive effects observed in the embryos and fetus of test animals.					

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	SECTION 12: Ecological Information					
Ecological	No information available.					
information	Two information available.					
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	SECTION 13: Disposal Considerations					
Dispose of in a manner consistent with federal, state, and local regulations.						
Dispose of in a manner e	onomination with reactar, state, and recar regulations.					
	SECTION 14: Transport Information					
Shipping name (CFR)	Flammable Liquids, N.O.S.					
Hazard class (CFR)	3					
Additional hazard	NA					
class (CFR)						
Packing group (CFR)						
UN ID number (CFR)	1993					
Shipping name	Flammable Liquids, N.O.S.					
(IATA)						
Hazard class (IATA)	3					
Additional hazard	NA					
class (IATA)						
Packing group	II					
(IATA)						
UN ID number	1993					
(IATA)						
	SECTION 15: Regulatory Information					
TSCA	Non listed in the TSCA inventory					
SARA	Title compound is not reportable under SARA Title 313; hexane is regulated by					
	SARA 313.					
SECTION 16: Other Information						
Preparation date	21.05.12					
Revision date	21.05.12					
The information above is	s believed to be accurate and represents the best information currently available to					

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.