

Material Safety Data Sheet

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SECTION 1: Product Identification						
Product name	Tri-t-butylphosphine, 99% (10 wt% in xylenes).					
CAS #	1330-20-7					
Catalog #	0152610					
Chemical family	Organophosphorus ligand.					
SECTION 2: Composition, Information on Ingredients						
Component	%	CAS #	EINECS #	Hazard Symbol	R-Phrase	
Tri-t-butylphosphine	10	13716-12-6	237-266-4	F C	17-34	
Xylenes	90	1330-20-7	215-535-7	XN	11-38	
SECTION 3: Hazard Identification						
Emergency overview	Flammable liquid. Vapors irritating to eyes and respiratory tract. May cause skin					
	irrita					
Eye contact	Contact will cause irritation, redness and a burning sensation.					
Skin contact				ritation. May be abs	sorbed through the	
Table Car	skin. Prolonged or repeated skin contact may cause dermatitis.					
Inhalation	Inhalation of vapors may depress the central nervous system causing dizziness,					
Ingestion	difficulty in walking, and irritation to the lungs.					
Chronic health effects	Ingestion may cause gastrointestinal irritation, nausea, vomiting and headache. For Xylene: May cause liver and kidney damage. Effects may be delayed.					
Chronic health chects	Narcotic in high concentrations.					
SECTION 4: First Aid Measures						
Eye exposure	Immediately flush the eyes with copious amounts of water for at least 15					
J	minutes. A victim will need assistance in keeping their eyelids open. Ge					
		ediate medical atte		1 0	v 1	
Skin exposure	Wash the affected area immediately with water. Remove contaminated clothing					
			ical assistance if irri	-		
Inhalation	Remove victim to fresh air immediately. Keep the victim lying down and warm.					
				occurs, respond wit	th appropriate first	
T		Fransport the viction		the mintime of C	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	
Ingestion				the victim calm. G		
		oxin (only if construction on the construction of the construction	iscious). Induce V	omiting only if dir	ected by medical	
	perse					
	SECTION 5: Fire Fighting Measures					
General information	As in			athing apparatus in	pressure-demand,	
		· • •	ved or equivalent),	and full protective	e gear. Material is	
		mable.				
Extinguishing media	Use	carbon dioxide, dr	y chemical or foam.			

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	SECTION 6: Accidental Release Measures
Spill and leak	If spilled all personnel must be immediately evacuated and the area sealed off.
procedures	The material may ignite releasing toxic and corrosive fumes of phosphorus
	pentoxide. Ventilation should be available. If entry into the area is required,
	personnel should be fitted with a self-contained breathing apparatus.
	SECTION 7: Handling and Storage
Handling	Material should be transferred under an inert atmosphere of nitrogen or argon in
	a efficient fume hood. Do not get in eyes, on skin, or on clothing.
Storage	Store in a tightly sealed container under an inert atmosphere of nitrogen or
	argon. Keep away from heat. Flammable area.
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	CTION 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. Consult with glove manufacturer to determine the
	proper type of glove.
Ventilation	It is imperative that this product is handled in an efficient fume hood.
Respirator	Follow the OSHA respirator regulations found in 29CFR 1910.134 or European
	Standard EN 149. Always use a NIOSH or European Standard EN 149 approved
	respirator when necessary.
	SECTION 9: Physical and Chemical Properties
Appearance	Colorless liquid.
Odor	Aromatic odor (for xylene).
Boiling point	No data
Flash point	87.8 deg F (for xylene).
Solubility in water	Slightly soluble (for xylene).
Specific gravity	0.878 g/ml (for xylene)
Molecular formula	C12H27P
Molecular weight	202.32
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	SECTION 10: Stability and Reactivity
Stability	Air- and moisture sensitive liquid.
Hazardous	Has not been reported.
polymerization	
Conditions to avoid	Contact with oxidizing agents, prolonged contact with air and ignition sources.
Incompatibilities with	Oxidizing agents, halogens.
other materials	
Hazardous decompo-	Carbon monoxide, carbon dioxide, phosphorus pentoxide, organic fumes.
sition products	
	SECTION 11: Toxicological Information
RTECS Data	No information available on title compound.
	For xylenes: CAS# 95-47-6: Inhalation, mouse: $LC50 = 4595$ ppm/6H;
	Oral, rat: LD50 = 3567 mg/kg; Other: Oral, rat: LD50 = 5000 mg/kg. Toxic
	effects observed in the embryo and fetus of test animals.
Carcinogenic effects	For xylene: IARC: Group 3 (not classifiable)
Mutagenic effects	No information available
Tetratogenic effects	No information available

	SECTION 12: Ecological Information				
Ecological	Biodegradable. Do not empty into drains.				
information					
	SECTION 13: Disposal Considerations				
Dispose of in a manner consistent with federal, state, and local 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)	II				
UN ID number (CFR)	UN #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	UN #1993				
(IATA)					
	SECTION 15: Regulatory Information				
TSCA	CAS# 95-47-6 is listed on the TSCA Inventory				
SARA	Not reportable under SARA Title 313; xylene: regulated by SARA.				
SECTION 16: Other Information					
Preparation date	28.03.07				
Revision date	28.03.07				
The information above is	s believed to be accurate and represents the best information currently available to				
	no warranty of merchantability or any other warranty, express or implied, with				
respect to such informat	tion, and we assume no liability resulting from its use. Users should make their				

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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.