

Material Safety Data Sheet

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SECTION 1: Product Identification						
Product name	Tris(t-butoxy)ethylcyclopentadienylzirconium, 98%					
CAS #	Not available					
Catalog #	0403350					
Chemical family	Cyclopentadienyl metal derivatives					
SECTION 2: Composition, Information on Ingredients						
Component		%	CAS #	EINECS #	Hazard Symbol	R-Phrase
Tris(t-butoxy)ethylcyclopentadienyl- zirconium		98	Not available	none	F	10 36/37/38
SECTION 3: Hazard Identification						
Emergency overview	Flammable. Irritating to the eyes, skin and respiratory tract.					
Eye contact	May cause slight to mild irritation of the eyes.					
Skin contact	May cause slight to mild irritation of the skin.					
Inhalation			nt to mild irritat			
Ingestion	No information available about toxicological effect of the ingestion.					
Chronic health effects	Not av	ailable.				
			ION 4: First			
Eye exposure	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally					
					al aid immediately.	
Skin exposure	Get medical aid immediately. Immediately flush skin with plenty of water f					
		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					
T (*	seek immediate medical assistance. Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of					
Ingestion			-		ous and alert, give	2-4 cupfuls of
	milk o	r water. C	Bet medical aid	immediately.		
SECTION 5: Fire Fighting Measures						
General information	Flammable liquid. 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 fo	am, dry c	hemical, or car	bon dioxide.		
SECTION 6: Accidental Release Measures						
Spill and leak	Small spills can be mixed with vermiculite or sodium carbonate or other inert					
procedures	material and swept up.					
r- occurros			·T · ·L ·			

	SECTION 7: Handling and Storage			
Handling	Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Handle material under inert atmosphere of argon or nitrogen.			
Storage	Store in a cool, dry place. Store in a tightly closed container under in			
	atmosphere of nitrogen and argon. Keep away from the sources of ignition, heat			
	and direct sunlight. Flammable area.			
SEC	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.			
Ventilation	Always handle material in an efficient fume hood.			
Respirator	If ventilation is not available a respirator should be worn. The use of respirator requires Respirator Program to be in compliance with 2000			
	requires Respirator Protection Program to be in compliance with 29CFR 1910.134.			
	1910.134.			
	SECTION 0. Drugical and Chamical Properties			
A nn a a n a a a a a a a a a a	SECTION 9: Physical and Chemical Properties			
Appearance Odor	Light yellow liquid None			
Melting point	No data			
Boiling point	No data			
Flash point	No data			
Solubility in water	No data			
Density	0.995 g/ml			
Molecular formula	C19H36O3Zr			
Molecular weight	403.72			
	SECTION 10: Stability and Reactivity			
Stability	Air and moisture sensitive liq.			
Hazardous	No hazardous polymerization			
polymerization				
Conditions to avoid	Contact with moisture and air, contact with ignition sources.			
Incompatibilities with	Water, air, oxidizing agents, heat.			
other materials				
Hazardous decompo-	Carbon monoxide, carbon dioxide, zirconium oxide, organic fumes.			
sition products				
	SECTION 11: Toxicological Information			
RTECS Data	No information available in the RTECS files.			
Carcinogenic effects	No data available.			
Mutagenic effects	No data available.			
Tetratogenic effects	No data available.			
	SECTION 12: Ecological Information			
Ecological	No information available.			
information				
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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 consistent with federal, state, and local fegurations.				

SECTION 14: Transport Information					
Shipping name (CFR)	Flammable liquid, N.O.S.				
Hazard class (CFR)	3				
Additional hazard	NA				
class (CFR)					
Packing group (CFR)	II				
UN ID number (CFR)	1993				
Shipping name	Flammable liquid, 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	Not listed in the TSCA inventory				
SARA	Not reportable under SARA Title 313.				
SECTION 16: Other Information					
Preparation date	19.03.08				
Revision date	19.03.08				
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.					

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