

Material Safety Data Sheet

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SECTION 1: Product Identification						
Product name	Tris(dimethylamino)cyclopentadienylzirconium, 98%					
CAS #	Not available					
Catalog #	0403110					
Chemical family	Cyclopentadienyl metal amides					
SECTION 2: Composition, Information on Ingredients						
Component		N 2: COI %	CAS #	EINECS #	Hazard Symbol	R-Phrase
Tris(dimethylamino)cyclo-		98	Not	none	F Xi	11 14
pentadienylzirconium			available			36/37/38
SECTION 3: Hazard Identification Emergency overview Flammable. Reacts with water. Irritating to eyes, respiratory system and skin.						
Eye contact	May cause burns of the eyes					- mie piùi.
Skin contact	May cause burns of the skin.					
Inhalation	May cause severe irritation of the respiratory tract.					
Ingestion	No information available about toxicological effect of the ingestion.					1.
Chronic health effects	Not available.					
Eye exposure						
Skin exposure	lifting the upper and lower eyelids. Get medical aid immediately. Get medical aid immediately. Immediately flush skin with plenty of water for at 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 seek immediate medical assistance.					
Ingestion	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						
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. Water reactive material.					
Extinguishing media	Dry ch	emical, c	arbon dioxide,	or chemical foa	am. Do not use water	!
SECTION 6: Accidental Release Measures						
Spill and leak procedures	Small spills can be mixed with vermiculite or sodium carbonate or other inert material and swept up. Place in covered containers using non-sparking tools and transport outdoors. Do not expose spill to water. Ventilate area.					
	uanspo		ns. Do not exp	use spin to wat		

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	SECTION 7: Handling and Storage			
Handling	SECTION 7: Handling and Storage Avoid breathing vapor. Avoid contact with skin and eyes. Do not allow contact			
Handling	with water. Use only in a chemical fume hood. Handle under inert gas.			
Storage	Store in a cool, dry place. Store in a tightly closed container under inert			
0	atmosphere of nitrogen and argon. Keep away from the sources of ignition, heat			
	and direct sunlight. Avoid contact with moisture and water.			
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 Protection Program to be in compliance with 29CFR			
	1910.134.			
	SECTION 9: Physical and Chemical Properties			
Appearance	Pale yellow liquid			
Odor	None			
Melting point	No data			
Boiling point	85.3 °C (2.5 mbar)			
Flash point	No data			
Solubility in water	No data			
Density	1.17			
Molecular formula	C11H23N3Zr			
Molecular weight	288.55			
	SECTION 10. Stability and Deceticity			
C4-1-11:4	SECTION 10: Stability and Reactivity			
Stability	Air and moisture sensitive liquid.			
Hazardous	No hazardous polymerization			
polymerization Conditions to avoid	Contact with water, contact with ignition sources.			
Incompatibilities with	Water, air, oxidizing agents, heat.			
other materials	water, an, oxidizing agents, near.			
Hazardous decompo-	Carbon monoxide, carbon dioxide, zirconium oxide, nitrogen oxide, zirconium			
sition products	oxide, 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.			
Tetratogenic effects	No data available.			
	SECTION 12: Ecological Information			
Ecological	No information available.			
information				
	SECTION 13: Disposal Considerations			
Dispose	of in a manner consistent with federal, state, and local regulations.			

	SECTION 14: Transport Information				
Shipping name (CFR)	Organometallic substance, liquid, water-reactive, flammable*				
Hazard class (CFR)	4.3				
Additional hazard	3				
class (CFR)					
Packing group (CFR)	П				
UN ID number (CFR)	3399				
Shipping name	Organometallic substance, liquid, water-reactive, flammable*				
(IATA)					
Hazard class (IATA)	4.3				
Additional hazard	3				
class (IATA)					
Packing group	II				
(IATA)					
UN ID number	3399				
(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	06.04.07				
Last revision date	19.03.08				
	s 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					
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own investigations to de	own investigations to determine the suitability of the information for their particular purposes.				