

Material Safety Data Sheet

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Product name	Tris(dimethylamino)cyclopentadienylzirconium, 98% (Hf<100 ppm)					m)
CAS#	33271-88-4					
Catalog #	04031					
Chemical family	Cyclopentadienyl metal amides					
SECTION 2: Composition, Information on Ingredients						
Component		%	CAS#	EINECS #	Hazard Symbol	R-Phrase
Tris(dimethylamino)cyclo- pentadienylzirconium		98	33271-88-4	none	Xi	36/37/38
pontuationyizmooma						
SECTION 3: Hazard Identification						
Emergency overview	Reacts with water. Irritating to eyes, respiratory system and skin.					
Eye contact	May cause burns of the eyes					
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.					
Chronic health effects	Not available.					
			ION 4: First			
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	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					
Illiaiation	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.				
min of water. Set medical and immediatory.						
	5	SECTIO	N 5: Fire Fig	hting Measu	res	
General information	If this	material	is involved in	a fire, fire fi	ghters should be eq	uipped with a
					ained breathing appa	
	protective clothing. If involved in a fire this material may emit toxic organic					
	fumes. Water reactive material.					
Extinguishing media	Dry ch	emical, c	earbon dioxide,	or chemical foa	am. Do not use water	·!
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. Place in covered containers using non-sparking tools and					
procedures					er. Ventilate area.	King tools and
	uanspe	ni outuo	ors. Do not exp	ose spin to wat	ci. v chimate area.	

	SECTION 7: Handling and Storage				
Handling	Avoid breathing vapor. Avoid contact with skin and eyes. Do not allow contact				
	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 iner				
	atmosphere of nitrogen and argon. Keep away from the sources of ignition, heat				
	and direct sunlight. Avoid contact with moisture and water.				
SECTION 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 respirators				
	requires Respirator Protection Program to be in compliance with 29CFR				
	1910.134.				
	SECTION 9: Physical and Chemical Properties				
Appearance	from pale yellow to yellow liq.				
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				
	CECTION 10. Ctability and Department				
Stability	SECTION 10: Stability and Reactivity Air and moisture sensitive liquid.				
Hazardous	•				
polymerization	No hazardous polymerization				
Conditions to avoid	Contact with water, contact with ignition sources.				
Incompatibilities with	Water, air, oxidizing agents, heat.				
other materials	Tracer, air, Orialzing agonto, neat.				
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					
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SECTION 13: Disposal Considerations					
Dispose of in a manner consistent with federal, state, and local regulations.					
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SECTION 14: Transport Information					
Shipping name (CFR)	Organometallic substance, liquid, water-reactive*				
Hazard class (CFR)	4.3				
Additional hazard	NA				
class (CFR)					
Packing group (CFR)	II				
UN ID number (CFR)	3398				
Shipping name	Organometallic substance, liquid, water-reactive*				
(IATA)					
Hazard class (IATA)	4.3				
Additional hazard	NA				
class (IATA)					
Packing group					
(IATA)					
UN ID number	3398				
(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	03.02.11				

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