

Material Safety Data Sheet

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	SECTION 1: Product Identification					
Product name	(t-Butylimido)bis(diethylamino)(cyclopentadienyl)niobium					
CAS#	NA					
Catalog #	0410400					
Chemical family	Cyclopentadienyl metal derivatives					
SECTION 2: Composition, Information on Ingredients						
Component		%	CAS#	EINECS#	Hazard Symbol	R-Phrase
(t-Butylimido)bis(diethylamino)			NA	none	F	10 20/21/22
(cyclopentadienyl)niobium						
SECTION 3: Hazard Identification						
Emergency overview	Flammable liquid. Harmful by inhalation, if swallowed and if absorbed through					
	the skin.	1		, ,		8
Eye contact	May cause severe irritation of the eyes.					
Skin contact	May cause severe irritation of the skin. Harmful if absorbed through the skin.					
Inhalation	May cause severe irritation of the respiratory tract. Harmful if inhaled.					
Ingestion	Harmful if swallowed. Causes pain, vomiting, ringing in the ears.					
Chronic health effects	No available information about long-term effects.					
	SE	CTIO	N 4: Firs	t Aid Measur	es	
Eye exposure	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally					
J. F. P. S.					ical aid immediately	
Skin exposure					e contaminated clotl	
				ritation persists.		·
Inhalation	Remove fro	m ex	posure to fr	esh air immedi	ately. If not breathin	g, give artificial
	respiration.	If bre	eathing is di	ifficult, give ox	xygen. In such cases	seek immediate
	medical assi					
Ingestion					cious and alert, give	e 2-4 cupfuls of
	milk or wate	er. Ge	t medical a	d immediately.		
	SECT	ΓΙΟΝ	1 5: <u>Fire</u> F	ighting Meas	ures	
General information	Flammable liquid. As in any fire, wear a self-contained breathing apparatus in					
					d or equivalent), an	
	_			•	oxic and corrosive fu	mes.
Extinguishing media	Don't use w	ater!	Use dry che	emical or carbo	n dioxide.	
SECTION 6: Accidental Release Measures						
Spill and leak	Small spills can be mixed with vermiculite or other suitable inert absorbents and					
procedures	placed in a s	suitab	le container	. Ventilate area	after material is ren	noved.

	CECTION 7. H. allin and Change			
	SECTION 7: Handling and Storage			
Handling	Avoid inhalation. Don't get in eyes, on skin or on clothing. Handle under an			
C4	inert atmosphere of argon or nitrogen.			
Storage	Store in a cool, dry place. Keep away from ignition sources and open flame.			
	Avoid contact with water and heat. Store in a tightly closed container under an			
	inert atmosphere.			
SEC	CTION 8: Exposure Controls and Personal Protection			
Eye protection	Always wear approved safety glasses when handling a chemical substance in the			
= J • Processi	laboratory.			
Skin protection	Wear protective gloves.			
Ventilation	Handling material in an efficient fume hood. Work with this substance in a well-			
	ventilated area.			
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	Orange liq.			
Odor	None			
Melting point	No data			
Boiling point	130°C/0.1 mmHg			
Flash point	No data			
Solubility in water	No data			
Specific gravity	1.0 g/cm ³			
Molecular formula	C16H32N3Nb			
Molecular weight	359.36			
	SECTION 10: Stability and Reactivity			
Stability	Air and moisture sensitive.			
Hazardous	No hazardous polymerization.			
polymerization				
Conditions to avoid	Contact with air, moisture and ignition sources.			
Incompatibilities with	Strong oxidizing agents.			
other materials				
Hazardous decompo-	Carbon monoxide, carbon dioxide, oxides of niobium.			
sition products				
	SECTION 11: Toxicological Information			
RTECS Data	No data available.			
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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CECTION 14. Two control Information					
SECTION 14: Transport Information					
Shipping name (CFR)	Flammable liquid, N.O.S.				
Hazard class (CFR)	3				
Additional hazard	NA				
class (CFR)					
Packing group (CFR)	III				
UN ID number (CFR)	1993				
Shipping name	Flammable liquid, N.O.S.				
(IATA)					
Hazard class (IATA)	3				
Additional hazard	NA				
class (IATA)					
Packing group	III				
(IATA)					
UN ID number	1993				
(IATA)					
SECTION 15: Regulatory Information					
TSCA	Not listed in the TSCA inventory				
SARA	Not reported				
SECTION 16: Other Information					
Preparation date	26.02.09				
Revision date	26.02.09				
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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.