



Material Safety Data Sheet

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SECTION 1: Product Identification

Product name	(t-Butylimido)bis(dimethylamino)(cyclopentadienyl)tantalum
CAS #	NA
Catalog #	0731150
Chemical family	Organic metal derivatives

SECTION 2: Composition, Information on Ingredients

Component	%	CAS #	EINECS #	Hazard Symbol	R-Phrase
(t-Butylimido)bis(dimethylamino)(cyclopentadienyl)tantalum		NA	none	F Xn	10 14 20/21/22

SECTION 3: Hazard Identification

Emergency overview	Flammable liquid. Reacts with water. Harmful by inhalation, if swallowed and if absorbed through the skin.
Eye contact	May cause irritation of the eyes.
Skin contact	May cause irritation of the skin.
Inhalation	Harmful if inhaled. May cause severe irritation of the respiratory tract.
Ingestion	Harmful if swallowed.
Chronic health effects	No available information about long-term effects.

SECTION 4: First Aid Measures

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	Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
Inhalation	Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In such cases seek immediate medical assistance.
Ingestion	Don't 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. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. If involved in fire material may emit toxic fumes.
Extinguishing media	Don't use water. Use dry chemical or carbon dioxide.

SECTION 6: Accidental Release Measures

Spill and leak procedures	Small spills can be mixed with vermiculite or other suitable inert absorbents and placed in a suitable container. Ventilate area after material is removed.
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SECTION 7: Handling and Storage	
Handling	Avoid inhalation. Don't get in eyes, on skin or on clothing. Handle under an inert atmosphere of argon or nitrogen. Keep away from water.
Storage	Store in a cool, dry place. Keep away from heat, sparks and open flame. Avoid contact with water. Store in a tightly closed container under an inert atmosphere.
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	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	Yellow liq.
Odor	No data
Melting point	No data
Boiling point	No data
Flash point	No data
Solubility in water	Reacts with water
Specific gravity	No data
Molecular formula	C ₁₃ H ₂₆ N ₃ Ta
Molecular weight	405.31
SECTION 10: Stability and Reactivity	
Stability	Air and moisture sensitive.
Hazardous polymerization	No hazardous polymerization.
Conditions to avoid	Avoid contact with moist air, water and ignition sources.
Incompatibilities with other materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon monoxide, carbon dioxide, nitrogen oxides, tantalum oxides.
SECTION 11: Toxicological Information	
RTECS Data	No data available.
Carcinogenic effects	No data available.
Mutagenic effects	No data available.
Tetragenic effects	No data available.
SECTION 12: Ecological Information	
Ecological information	No information available.
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 class (CFR)	3
Packing group (CFR)	II
UN ID number (CFR)	3399
Shipping name (IATA)	Organometallic substance, liquid, water-reactive, flammable*
Hazard class (IATA)	4.3
Additional hazard class (IATA)	3
Packing group (IATA)	II
UN ID number (IATA)	3399
SECTION 15: Regulatory Information	
TSCA	Not listed in the TSCA inventory
SARA	Not reported
SECTION 16: Other Information	
Preparation date	16.04.10
Revision date	16.04.10
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