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SECTION 1: Product Identification

Product name	Tetrakis(t-butoxy)pentamethylcyclopentadienyltantalum
CAS #	NA
Catalog #	0730800
Chemical family	Cyclopentadienyl metal derivatives

SECTION 2: Composition, Information on Ingredients

Component	%	CAS #	EINECS #	Hazard Symbol	R-Phrase
Tetrakis(t-butoxy)pentamethylcyclopentadienyltantalum		NA	none	F Xn	10 20/21/22

SECTION 3: Hazard Identification

Emergency overview	Flammable liquid. Harmful by inhalation, if swallowed and if absorbed through the skin.
Eye contact	May cause slight irritation of the eyes.
Skin contact	May cause slight irritation of the skin.
Inhalation	May be harmful if inhaled. May cause severe irritation of the respiratory tract.
Ingestion	Harmful if swallowed.
Chronic health effects	Prolonged contact with manganese compounds may lead to neurological damages, including sleepiness.

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	Water spray. 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.
Storage	Store in a cool, dry place. Keep away from ignition sources. 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 viscous liquid
Odor	No data
Melting point	No data
Boiling point	No data
Flash point	No data
Solubility in water	No data
Specific gravity	1.1 g/cm ³
Molecular formula	C ₂₆ H ₅₁ O ₄ Ta
Molecular weight	608.63
SECTION 10: Stability and Reactivity	
Stability	Air and moisture sensitive.
Hazardous polymerization	No hazardous polymerization.
Conditions to avoid	Contact with air, moisture.
Incompatibilities with other materials	Strong oxidizing agents and ignition sources.
Hazardous decomposition products	Carbon monoxide, carbon dioxide, manganese oxides, organic fumes.
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)	Flammable liquids, N.O.S.
Hazard class (CFR)	3
Additional hazard class (CFR)	NA
Packing group (CFR)	II
UN ID number (CFR)	1993
Shipping name (IATA)	Flammable liquids, N.O.S.
Hazard class (IATA)	3
Additional hazard class (IATA)	NA
Packing group (IATA)	II
UN ID number (IATA)	1993

SECTION 15: Regulatory Information

TSCA	Not listed in the TSCA inventory
SARA	Not reported

SECTION 16: Other Information

Preparation date	30.06.09
Revision date	17.08.09

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