



## Material Safety Data Sheet

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### SECTION 1: Product Identification

<b>Product name</b>	(t-Butylimido)tris(methylethylamino)tantalum
<b>CAS #</b>	511292-99-2
<b>Catalog #</b>	0733250
<b>Chemical family</b>	Organic metal derivatives

### SECTION 2: Composition, Information on Ingredients

<b>Component</b>	<b>%</b>	<b>CAS #</b>	<b>EINECS #</b>	<b>Hazard Symbol</b>	<b>R-Phrase</b>
(t-Butylimido)tris(methylethylamino)-tantalum		511292-99-2	none	F Xn	10 14/15

### SECTION 3: Hazard Identification

<b>Emergency overview</b>	Flammable liquid. Reacts violently with water, liberating extremely flammable gases.
<b>Eye contact</b>	Causes irritation of the eyes.
<b>Skin contact</b>	Causes irritation of the skin.
<b>Inhalation</b>	Harmful if inhaled. May cause severe irritation of the respiratory tract.
<b>Ingestion</b>	Harmful if swallowed.
<b>Chronic health effects</b>	No available information about long-term effects.

### SECTION 4: First Aid Measures

<b>Eye exposure</b>	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
<b>Skin exposure</b>	Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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

<b>General information</b>	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.
<b>Extinguishing media</b>	Don't use water. Use dry chemical or carbon dioxide.

### SECTION 6: Accidental Release Measures

<b>Spill and leak procedures</b>	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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<b>SECTION 7: Handling and Storage</b>	
<b>Handling</b>	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.
<b>Storage</b>	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.
<b>SECTION 8: Exposure Controls and Personal Protection</b>	
<b>Eye protection</b>	Always wear approved safety glasses when handling a chemical substance in the laboratory.
<b>Skin protection</b>	Wear protective gloves.
<b>Ventilation</b>	Handling material in an efficient fume hood. Work with this substance in a well-ventilated area.
<b>Respirator</b>	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.
<b>SECTION 9: Physical and Chemical Properties</b>	
<b>Appearance</b>	Yellow liq.
<b>Odor</b>	No data
<b>Melting point</b>	No data
<b>Boiling point</b>	No data
<b>Flash point</b>	No data
<b>Solubility in water</b>	Reacts with water
<b>Specific gravity</b>	1.323 g/ml
<b>Molecular formula</b>	C13H33N4Ta
<b>Molecular weight</b>	426.38
<b>SECTION 10: Stability and Reactivity</b>	
<b>Stability</b>	Air and moisture sensitive.
<b>Hazardous polymerization</b>	No hazardous polymerization.
<b>Conditions to avoid</b>	Avoid contact with moist air, water and ignition sources.
<b>Incompatibilities with other materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Carbon monoxide, carbon dioxide, nitrogen oxides, tantalum oxides.
<b>SECTION 11: Toxicological Information</b>	
<b>RTECS Data</b>	No data available.
<b>Carcinogenic effects</b>	No data available.
<b>Mutagenic effects</b>	No data available.
<b>Tetragenic effects</b>	No data available.
<b>SECTION 12: Ecological Information</b>	
<b>Ecological information</b>	No information available.
<b>SECTION 13: Disposal Considerations</b>	
Dispose of in a manner consistent with federal, state, and local regulations.	

SECTION 14: Transport Information	
<b>Shipping name (CFR)</b>	Water-reactive liquid, N.O.S.
<b>Hazard class (CFR)</b>	4.3
<b>Additional hazard class (CFR)</b>	
<b>Packing group (CFR)</b>	II
<b>UN ID number (CFR)</b>	3148
<b>Shipping name (IATA)</b>	Water-reactive liquid, N.O.S.
<b>Hazard class (IATA)</b>	4.3
<b>Additional hazard class (IATA)</b>	
<b>Packing group (IATA)</b>	II
<b>UN ID number (IATA)</b>	3148
SECTION 15: Regulatory Information	
<b>TSCA</b>	Not listed in the TSCA inventory
<b>SARA</b>	Not reported
SECTION 16: Other Information	
<b>Preparation date</b>	15.06.12
<b>Revision date</b>	15.06.12
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