



## Material Safety Data Sheet

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### SECTION 1: Product Identification

<b>Product name</b>	Tris(i-propoxy)cyclopentadienylzirconium, 98%
<b>CAS #</b>	NA
<b>Catalog #</b>	0403750
<b>Chemical family</b>	Cyclopentadienyl metal alkoxide

### 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>
Tris(i-propoxy)cyclopentadienylzirconium	98	NA	None	F	10 14 34

### SECTION 3: Hazard Identification

<b>Emergency overview</b>	Flammable. Causes burns. Reacts with water.
<b>Eye contact</b>	Causes eye burns.
<b>Skin contact</b>	Causes burns to the skin. May be harmful if absorbed through the skin.
<b>Inhalation</b>	Inhalation can lead to burns of the respiratory tract.
<b>Ingestion</b>	Causes gastrointestinal tract burns.
<b>Chronic health effects</b>	Not available.

### 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>	Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
<b>Inhalation</b>	Remove from exposure to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, pain, etc. In such cases seek immediate medical assistance.
<b>Ingestion</b>	Do not induce vomiting. Get medical aid immediately. If victim is conscious and alert, give 2-4 cupfuls of milk or water.

### SECTION 5: Fire Fighting Measures

<b>General information</b>	If this material is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing. Flammable. If involved in a fire this material may emit toxic organic fumes. Water Reactive. Material will react with water and may release a flammable and/or toxic gas.
<b>Extinguishing media</b>	Do not use water! Carbon dioxide, dry chemical powder, or appropriate foam.

### SECTION 6: Accidental Release Measures

<b>Spill and leak procedures</b>	Eliminate all ignition sources. Avoid contact with water. Small spills can be mixed with vermiculite or sodium carbonate or other inert material and swept up.
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<b>SECTION 7: Handling and Storage</b>	
<b>Handling</b>	Avoid breathing vapor, dust, mist, or gas. Avoid contact with skin, eyes, and clothing. Keep away from heat, sparks and flame. Handle under an inert atmosphere of nitrogen. Don't allow contact with water. Use only in a chemical fume hood.
<b>Storage</b>	Store in a cool, dry place. Store in a tightly closed container. Keep away from heat, sparks, flame and sources of ignition. Flammable area. Avoid contact with water and store under an inert atmosphere of nitrogen or argon.
<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>	If possible, handle the material in an efficient fume hood.
<b>Respirator</b>	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.
<b>SECTION 9: Physical and Chemical Properties</b>	
<b>Appearance</b>	From colorless liq. to colorless solid
<b>Odor</b>	Not available.
<b>Melting point</b>	Not available.
<b>Boiling point</b>	Not available.
<b>Flash point</b>	Not available.
<b>Solubility in water</b>	Reacts with water.
<b>Specific gravity</b>	Not available.
<b>Molecular formula</b>	C <sub>14</sub> H <sub>26</sub> O <sub>3</sub> Zr
<b>Molecular weight</b>	333.58
<b>SECTION 10: Stability and Reactivity</b>	
<b>Stability</b>	Moisture and air-sensitive.
<b>Hazardous polymerization</b>	No hazardous polymerization.
<b>Conditions to avoid</b>	Incompatible materials, exposure to moisture, air or water, contact with ignition sources
<b>Incompatibilities with other materials</b>	Oxidizing agents, water, air.
<b>Hazardous decomposition products</b>	Carbon dioxide, carbon monoxide, zirconium oxide and organic fumes.
<b>SECTION 11: Toxicological Information</b>	
<b>RTECS Data</b>	No information available in the RTECS files.
<b>Carcinogenic effects</b>	No data available.
<b>Mutagenic effects</b>	No data available.
<b>Tetratogenic effects</b>	No data available.
<b>SECTION 12: Ecological Information</b>	
<b>Ecological information</b>	No information available.

### SECTION 13: Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

### SECTION 14: Transport Information

<b>Shipping name (CFR)</b>	Organometallic substance, liquid, water-reactive, flammable*
<b>Hazard class (CFR)</b>	4.3
<b>Additional hazard class (CFR)</b>	3
<b>Packing group (CFR)</b>	II
<b>UN ID number (CFR)</b>	3399
<b>Shipping name (IATA)</b>	Organometallic substance, liquid, water-reactive, flammable*
<b>Hazard class (IATA)</b>	4.3
<b>Additional hazard class (IATA)</b>	3
<b>Packing group (IATA)</b>	II
<b>UN ID number (IATA)</b>	3399

### SECTION 15: Regulatory Information

<b>TSCA</b>	NA
<b>SARA</b>	Not reportable under SARA Title 313.

### SECTION 16: Other Information

<b>Preparation date</b>	23.06.08
<b>Revision date</b>	23.06.08

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