



Material Safety Data Sheet

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SECTION 1: Product Identification

Product name	Trimethoxy(methylcyclopentadienyl)titanium, 98%
CAS #	Not available
Catalog #	0220755
Chemical family	Cyclopentadienyl metal derivatives

SECTION 2: Composition, Information on Ingredients

Component	%	CAS #	EINECS #	Hazard Symbol	R-Phrase
Trimethoxy(methylcyclopentadienyl)titanium	98	None	None	F	10

SECTION 3: Hazard Identification

Emergency overview	Flammable liquid. Irritating to eyes, respiratory system and skin.
Eye contact	Causes mild irritation of the eyes.
Skin contact	Causes slight to mild irritation of the skin. May be harmful if absorbed through the skin.
Inhalation	Causes mild irritation of the respiratory tract. May be harmful if inhaled.
Ingestion	May be harmful if swallowed.
Chronic health effects	Not available.

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	Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Inhalation	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.
Ingestion	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	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. If involved in a fire this material may emit toxic organic fumes.
Extinguishing media	Use water spray, dry chemical, carbon dioxide, or chemical foam.

SECTION 6: Accidental Release Measures

Spill and leak procedures	Small spills can be mixed with vermiculite or sodium carbonate or other inert material and swept up.
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SECTION 7: Handling and Storage	
Handling	Avoid breathing vapor. Avoid contact with skin, eyes, and clothing. Handle material under inert atmosphere of argon or nitrogen.
Storage	Store in a cool, dry place. Store in a tightly closed container. Store material under inert atmosphere of argon or nitrogen. Flammable area.
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	Handle the material in an efficient fume hood.
Respirator	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.
SECTION 9: Physical and Chemical Properties	
Appearance	Light yellow liquid
Odor	Not determined
Melting point	No data
Boiling point	No data
Flash point	No data
Solubility in water	No data
Specific gravity	1.12 g/cm ³
Molecular formula	C ₉ H ₁₆ O ₃ Ti
Molecular weight	220.10
SECTION 10: Stability and Reactivity	
Stability	Moisture sensitive liquid.
Hazardous polymerization	No hazardous polymerization.
Conditions to avoid	Incompatible materials, exposure to the moist air or water.
Incompatibilities with other materials	Strong oxygen agents, water, strong halogen.
Hazardous decomposition products	Carbon dioxide, carbon monoxide, titanium oxide, and organic fumes.
SECTION 11: Toxicological Information	
RTECS Data	No information available in the RTECS files.
Carcinogenic effects	No data available.
Mutagenic effects	No data available.
Tetratogenic 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 liquid, N.O.S*
Hazard class (CFR)	3
Additional hazard class (CFR)	NA
Packing group (CFR)	III
UN ID number (CFR)	1993
Shipping name (IATA)	Flammable liquid, N.O.S*
Hazard class (IATA)	3
Additional hazard class (IATA)	NA
Packing group (IATA)	III
UN ID number (IATA)	1993
SECTION 15: Regulatory Information	
TSCA	Not listed in the TSCA inventory
SARA	Not reportable under SARA Title 313.
SECTION 16: Other Information	
Preparation date	29.10.07
Revision date	29.10.07
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