



## Material Safety Data Sheet

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### SECTION 1: Product Identification

<b>Product name</b>	Methyltrioxorhenium, 98%
<b>CAS #</b>	70197-13-6
<b>Catalog #</b>	0750100
<b>Chemical family</b>	Organometallic oxide

### 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>
Methyltrioxorhenium	98	70197-13-6	none	Xi	36/37/38

### SECTION 3: Hazard Identification

<b>Emergency overview</b>	Irritating to eyes, skin and respiratory tract. Inhalation can lead to headaches and dizziness. Very volatile matter. Avoid contact with vapor.
<b>Eye contact</b>	May cause eye irritation.
<b>Skin contact</b>	May cause skin irritation. May be harmful if absorbed through the skin.
<b>Inhalation</b>	Inhalation of dust may cause irritating to the eyes, mucous membranes and respiratory tract.
<b>Ingestion</b>	May cause irritation of the digestive tract. Harmful if swallowed.
<b>Chronic health effects</b>	No information available on long-term chronic effects.

### SECTION 4: First Aid Measures

<b>Eye exposure</b>	Immediately flush eyes with plenty amount of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
<b>Skin exposure</b>	Get medical aid. Flush skin with water for at least 15 minutes while removing contaminated clothing and shoes if it is necessary.
<b>Inhalation</b>	Remove from exposure to fresh air.
<b>Ingestion</b>	If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid.

### 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. If involved in a fire this material may emit irritating rhenium oxide fumes. Substance is nonflammable. Oxidizer. Greatly increases the burning rate of combustible materials.
<b>Extinguishing media</b>	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 sodium carbonate or other inert noncombustible material and swept up.
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SECTION 7: Handling and Storage	
<b>Handling</b>	Avoid contact with eyes, skin. Avoid breathing dust, vapor, mist, or gas. Recommended prepacking in glove box.
<b>Storage</b>	Store in the tightly closed container. Store in a cool, dry place. Keep away from heat and direct sunlight.
SECTION 8: Exposure Controls and Personal Protection	
<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.
SECTION 9: Physical and Chemical Properties	
<b>Appearance</b>	From white to pale-gray xtl.
<b>Odor</b>	None
<b>Melting point</b>	111-115 °C
<b>Boiling point</b>	Not data
<b>Flash point</b>	Not data
<b>Specific gravity</b>	Not data
<b>Solubility in water</b>	Very soluble
<b>Molecular formula</b>	CH <sub>3</sub> O <sub>3</sub> Re
<b>Molecular weight</b>	249.24
SECTION 10: Stability and Reactivity	
<b>Stability</b>	Air and moisture sensitive.
<b>Hazardous polymerization</b>	No hazardous polymerization.
<b>Conditions to avoid</b>	Incompatible materials, moisture, excess heat, combustible materials.
<b>Incompatibilities with other materials</b>	Strong oxidizing agents, reducing agents, active metals, halogens, organic matter. Reaction with hydrogen peroxide can form an explosive by-product.
<b>Hazardous decomposition products</b>	Carbon monoxide, carbon dioxide, rhenium salts.
SECTION 11: Toxicological Information	
<b>RTECS Data</b>	CAS# 70197-13-6 unlisted.
<b>Carcinogenic effects</b>	No data available.
<b>Mutagenic effects</b>	No data available.
<b>Tetratogenic effects</b>	No data available.
SECTION 12: Ecological Information	
<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>	Non-hazardous
<b>Hazard class (CFR)</b>	NA
<b>Additional hazard class (CFR)</b>	NA
<b>Packing group (CFR)</b>	NA
<b>UN ID number (CFR)</b>	NA
<b>Shipping name (IATA)</b>	Non-hazardous
<b>Hazard class (IATA)</b>	NA
<b>Additional hazard class (IATA)</b>	NA
<b>Packing group (IATA)</b>	NA
<b>UN ID number (IATA)</b>	NA
SECTION 15: Regulatory Information	
<b>TSCA</b>	CAS# 70197-13-6 is not listed on the TSCA inventory.
<b>SARA</b>	Not listed.
SECTION 16: Other Information	
<b>Preparation date</b>	23.06.05
<b>Revision date</b>	03.02.12
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