

# MATERIAL SAFETY DATA SHEET



## Methyltrioxorhenium (VII)

Ru
Rh
Pd
Ag
Re
Os
Ir
Pt
Au

<p><b>NFPA</b></p>	<p><b>HMIS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #00b0f0; color: white;">HEALTH</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #ff0000; color: white;">FLAMMABILITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="background-color: #ffff00;">REACTIVITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td style="text-align: center;">B</td> </tr> </table>	HEALTH	1	FLAMMABILITY	0	REACTIVITY	0	PERSONAL PROTECTION	B
HEALTH	1								
FLAMMABILITY	0								
REACTIVITY	0								
PERSONAL PROTECTION	B								

### 1. Product And Company Identification

<p><b>Supplier</b>                  Colonial Metals, Inc.                  Building 20                  505 Blue Ball Road                  Elkton, MD 21921 United States</p> <p><b>Company Contact:</b> Wayne Sher  <b>Telephone Number:</b> 410-398-7200  <b>FAX Number:</b> 410-398-2918  <b>E-Mail:</b> wsher@colonialmetals.com  <b>Web Site:</b> colonialmetals.com</p>	<p><b>Manufacturer</b>                  Colonial Metals, Inc.                  Building 20                  505 Blue Ball Road                  Elkton, MD 21921 United States</p> <p><b>Company Contact:</b> Wayne Sher  <b>Telephone Number:</b> 410-398-7200  <b>FAX Number:</b> 410-398-2918  <b>E-Mail:</b> wsher@colonialmetals.com  <b>Web Site:</b> colonialmetals.com</p>
<p><b>Supplier Emergency Contacts &amp; Phone Number</b>                  Chemtrac: 800-424-9300                  World Wide - Call COLLECT to U.S: 703-527-3887</p>	<p><b>Manufacturer Emergency Contacts &amp; Phone Number</b>                  Chemtrac: 800-424-9300                  World Wide - Call COLLECT to U.S: 703-527-3887</p>

**Issue Date:** 12/30/2010

**Product Name:** Methyltrioxorhenium (VII)  
**CAS Number:** 70197-13-6  
**Chemical Family:** Organometallic Rhenium Complex  
**Chemical Formula:** CH<sub>3</sub>ReO<sub>3</sub>  
**MSDS Number:** 100112  
**Product Code:** 1000-12

**Synonyms**  
 none

### 2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
Methyltrioxorhenium (VII)	70197-13-6	98 - 100

### EMERGENCY OVERVIEW

**To the best of our knowledge the chemical, physical, and toxicological properties of this compound have not been thoroughly investigated.**

**3. Hazards Identification**

**Primary Routes(s) Of Entry**

Eye: Likely  
 Inhalation: Likely  
 Skin: Likely  
 Ingestion: Likely

**Eye Hazards**

Causes eye irritation.

**Skin Hazards**

Causes skin irritation.

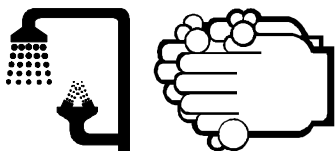
**Ingestion Hazards**

May be harmful if swallowed.

**Inhalation Hazards**

Irritation to respiratory tract.

**First Aid (Pictograms)**



**4. First Aid Measures**

**Eye**

Flush for 15 minutes with plenty of water. If discomfort occurs or persists, contact a physician immediately.

**Skin**

Flush area for 15 minutes with water. If discomfort occurs or persists, contact a physician immediately. Remove contaminate clothing and shoes and wash before reuse.

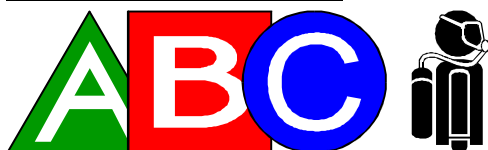
**Ingestion**

Give victim water provided they are concious. Never give anything by mouth to an unconcious person. Contact a physician immediately. Induce vomiting only if directed by medical personnel.

**Inhalation**

Remove to fresh air immediately. If discomfort occurs or persists, contact a physician immediately.

**Fire Fighting (Pictograms)**



**5. Fire Fighting Measures**

Flash Point: NA °C  
 Autoignition Point: NA °C  
 Flammability Class: NA

**5. Fire Fighting Measures - Continued**

**Fire And Explosion Hazards**

Use proper safety equipment. Can decompose to emit irritating rhenium oxide fumes.

**Extinguishing Media**

Carbon dioxide, dry chemical or foam.

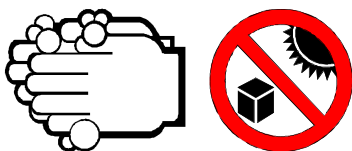
**Fire Fighting Instructions**

Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

**6. Accidental Release Measures**

Small spills can be mixed with sodium carbonate or vermiculite. Soak or sweep up and place in a sealed container. Person protected with full face shield and approved respirator for ammonia vapor and dust. Ventilate area and wash spill site after pick up is complete.

**Handling & Storage (Pictograms)**



**7. Handling And Storage**

**Handling Precautions**

Avoid contact with eyes, prolonged or repeated contact with skin.

**Storage Precautions**

Store in a tightly sealed container in a cool, dry well-ventilated area away from heat and direct sunlight

**Work/Hygienic Practices**

Use good personal hygiene. Wash thoroughly with soap and water after handling.

**Other Precautions**

0.01 ppm high efficiency particular respirator/supplied air respirator/self-contained breathing apparatus; 0.2 ppm same as above with full face piece; 1 ppm powdered air purifying respirator with high efficiency filter/type C supplied air respirator operated in pressure demand mode. Store in a sealed container, plastic or plastic liner, in a cool, well ventilated, dry area away from volatile acids.

**Protective Clothing (Pictograms)**



**8. Exposure Controls/Personal Protection**

**Engineering Controls**

Ventilation: Local Exhaust: Required in handling area  
 Mechanical: Desirable to insure concentration of material below TLV/TWA levels  
 Other: Closed Ventilation system - Dust (Laboratory fume hood)

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**8. Exposure Controls/Personal Protection - Continued****Engineering Controls - Continued**

Safety shower and eyewash

**Eye/Face Protection**

ANSI approved safety glasses/goggles, full face shield

**Skin Protection**

Rubber/Neoprene (use compatible chemical-resistant gloves)

**Respiratory Protection**

NIOSH approved chemical cartridge respirator for particulates and dust, if there is potential for airborne exposure to exceed established threshold values, or self-contained breathing apparatus with full face shield.

**Other/General Protection**

Lab coat/apron, flame and chemical resistant protective clothing, eye wash, safety shower, and hygiene facilities for washing

**9. Physical And Chemical Properties****Appearance**

Colorless to pale gray crystals

**Chemical Type:** Mixture**Physical State:** Solid**Melting Point:** 111 °C**Boiling Point:** sublimes at 65 °C**Molecular Weight:** 249.23**Solubility:** soluble**10. Stability And Reactivity****Stability:** Stable**Hazardous Polymerization:** Will not Occur**Conditions To Avoid (Stability)**

Keep away from contact with reducing agents. Reaction with hydrogen peroxide can form an explosive by-product.

**Incompatible Materials**

Reducing agents, halogens, active metals and hydrogen peroxide.

**Hazardous Decomposition Products**

Carbon monoxide, carbon dioxide and rhenium salts.

**11. Toxicological Information**

To the best of our knowledge, the chemical, physical, and toxicological properties of this compound have not been thoroughly investigated.

**12. Ecological Information**

No Data Available...



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### 13. Disposal Considerations

Consult Federal EPA, State and local regulations for proper disposal/recycle/reclamation

NOTE: Chemical additions, processing, or otherwise altering this material may make the waste management information presented above incomplete, inaccurate, or otherwise inappropriate.

### 14. Transport Information

#### Proper Shipping Name

Non-hazardous

#### Additional Shipping Paper Description

IATA: Same as DOT. Always consult IATA regulations before shipping.

### 15. Regulatory Information

#### Canadian Regulatory Information

### 16. Other Information

#### NFPA Rating

Health: 1

Fire: 0

Reactivity: 0

#### HMIS Rating

Health: 1

Fire: 0

Reactivity: 0

Personal Protection: B

#### Revision/Preparer Information

MSDS Preparer: Wayne S. Sher

MSDS Preparer Phone Number: 410-398-7200

### Disclaimer

In compliance with the OSHA Hazard Communication Standard, 29 C.F.R 1910.1200, we are providing you with a Materials Safety Data Sheet (MSDS) for the hazardous material you are purchasing.

It is your responsibility to educate your employees on the safe use of the hazardous material. With this in mind, a copy should be forwarded to the supervisor of the user or to the user themselves, and copy should be retained in your files for future reference.

Colonial Metals, Inc. makes no presentation as to the accuracy of the information in the MSDS. The information is believed to be correct; however, you (the customer), should perform your own investigation and independent verification. If you resell the product, you are responsible to forward the information in the MSDS to your customer

Colonial Metals, Inc.