

MATERIAL SAFETY DATA SHEET



Methyltrioxorhenium (VII)

Ru
Rh
Pd
Ag
Re
Os
Ir
Pt
Au

| | | | | | | | | | |
|---------------------|--|--------|---|--------------|---|------------|---|---------------------|---|
| <p>NFPA</p> | <p>HMIS</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>Supplier Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States</p> <p>Company Contact: Wayne Sher Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: wsher@colonialmetals.com Web Site: colonialmetals.com</p> | <p>Manufacturer Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States</p> <p>Company Contact: Wayne Sher Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: wsher@colonialmetals.com Web Site: colonialmetals.com</p> |
| <p>Supplier Emergency Contacts & Phone Number Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887</p> | <p>Manufacturer Emergency Contacts & Phone Number Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887</p> |
| <p>Issue Date: 12/30/2010</p> <p>Product Name: Methyltrioxorhenium (VII) CAS Number: 70197-13-6 Chemical Family: Organometallic Rhenium Complex Chemical Formula: CH₃ReO₃ MSDS Number: 100112 Product Code: 1000-12</p> <p>Synonyms none</p> | |

| 2. Composition/Information On Ingredients | | | |
|---|---------------------------|------------|-------------------------|
| | Ingredient Name | CAS Number | Percent Of Total Weight |
| | Methyltrioxorhenium (VII) | 70197-13-6 | 98 - 100 |

| EMERGENCY OVERVIEW |
|---|
| <p>To the best of our knowledge the chemical, physical, and toxicological properties of this compound have not been thoroughly investigated.</p> |

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.

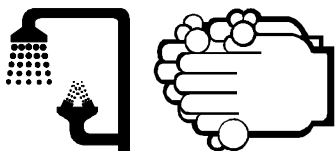
Ingestion Hazards

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.

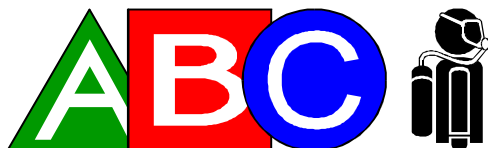
Ingestion

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.