

MATERIAL SAFETY DATA SHEET



Oxotrichlorobis(triphenylphosphine) Rhenium (V)

Ru
Rh
Pd
Ag
Re
Os
Ir
Pt
Au

<p>NFPA</p>	<p>HMS</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;">02</td> </tr> <tr> <td style="background-color: #ff0000; color: white;">FLAMMABILITY</td> <td style="text-align: center;">1</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	02	FLAMMABILITY	1	REACTIVITY	0	PERSONAL PROTECTION	B
HEALTH	02								
FLAMMABILITY	1								
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>

Issue Date: 12/30/2010

Product Name: Oxotrichlorobis(triphenylphosphine) Rhenium (V)
Chemical Name: Same as above
CAS Number: 17442-18-1
Chemical Family: Platinum Group Metal
Chemical Formula: Re(0)Cl₃(PC₁₈H₁₅)₂
MSDS Number: 100010
Product Code: 1000-10

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
OXOTRICHLOROBIS(TRIPHENYLPHOSPHINE) RHENIUM (V)	17442-18-1	99

EMERGENCY OVERVIEW

Warning! Harmful if swallowed, Cause eye, skin and respiratory tract irritation.
Target Organs: Respiratory system, skin and eyes.

Hazards Identification (Pictograms)



3. Hazards Identification

Primary Routes(s) Of Entry

- Eye Contact
- Ingestion - possible, but considered unlikely.
- Inhalation
- Skin Contact

Eye Hazards

Causes eye irritation.

Skin Hazards

Causes skin irritation.

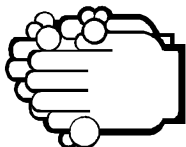
Ingestion Hazards

Harmful if swallowed.

Inhalation Hazards

Causes respiratory tract irritation.

First Aid (Pictograms)



4. First Aid Measures

Eye

In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes.

Skin

Wash affected areas with soap and water.

Ingestion

Call a physician or a poison control center immediately. Get medical attention immediately.

Inhalation

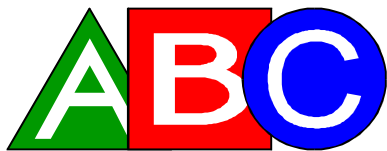
If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention immediately.



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Fire Fighting (Pictograms)



5. Fire Fighting Measures

Flash Point: NA °C

Flammability Class: NA

Lower Explosive Limit: NA

Upper Explosive Limit: NA

Fire And Explosion Hazards

No information available.

Extinguishing Media

In case of fire, use water fog, dry chemical, CO₂, or "alcohol" foam. Water may be ineffective.

Fire Fighting Instructions

Firefighters should wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

Avoid generating dust.

Clean up spill immediately.

Avoid release to the environment.

7. Handling And Storage

Handling And Storage Precautions

Keep containers tightly closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Handling Precautions

Avoid contact with eyes.

Avoid contact with skin and clothing.

Avoid creating dust.

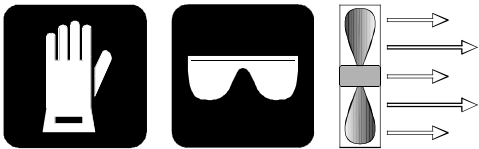
Storage Precautions

Do not store directly on ground.

Store in a dry place.

Work/Hygienic Practices

Wash thoroughly with soap and water after handling.


<p>7. Handling And Storage - Continued</p> <p>Protective Clothing (Pictograms)</p> 
<p>8. Exposure Controls/Personal Protection</p> <p>Engineering Controls Use with adequate general and local exhaust ventilation.</p> <p>Eye/Face Protection Safety glasses with side shields or goggles.</p> <p>Skin Protection Chemical-resistant gloves.</p> <p>Respiratory Protection The level of respiratory protection needed should be based on the required protection factor after evaluating chemical exposures using appropriate industrial hygiene monitoring and/or OSHA guidance.</p>
<p>9. Physical And Chemical Properties</p> <p>Appearance Solid</p> <p>Chemical Type: Mixture Physical State: Solid Melting Point: 205 °C Molecular Weight: 833.15</p>
<p>10. Stability And Reactivity</p> <p>Stability: Stable under normal conditions Hazardous Polymerization: Will not polymerize</p> <p>Incompatible Materials Strong oxidizing agents</p> <p>Hazardous Decomposition Products Hydrogen chloride, carbon monoxide, oxides of phosphorus, carbon dioxide</p>
<p>11. Toxicological Information</p> <p>No Data Available...</p>
<p>12. Ecological Information</p> <p>No Data Available...</p>
<p>13. Disposal Considerations</p> <p>Dispose in accordance with applicable federal, state and local government regulations.</p>

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<p>14. Transport Information</p> <p><u>Proper Shipping Name</u> Non-hazardous</p> <p><u>Additional Shipping Paper Description</u> IATA and IMDG: Consult regulation.</p>
<p>15. Regulatory Information</p> <p><u>U.S. Regulatory Information</u> All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.</p> <p><u>SARA Section 313 Notification</u> This product does not contain any ingredients regulated under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 or 40 CFR 372.</p> <p><u>Canadian Regulatory Information</u> All ingredients of this product comply with the New Substances Notification requirements of the Canadian Environmental Protection Act (CEPA).</p> <p><u>European Union (EU) Regulatory Information</u> R36/37/38 - Irritating to eyes, respiratory system and skin S24/25 - Avoid contact with skin and eyes</p> <p><u>DSCL - Europe (Pictograms)</u></p> <div style="text-align: center;">  </div>
<p>16. Other Information</p> <p><u>NFPA Rating</u> Health: 2 Fire: 1 Reactivity: 0</p> <p><u>HMIS Rating</u> Health: 02 Fire: 1 Reactivity: 0 Personal Protection: B</p> <p><u>Revision/Preparer Information</u> MSDS Preparer: Wayne S. Sher MSDS Preparer Phone Number: 410-398-7200</p>
<p>Disclaimer</p> <p>In compliance with the OSHA Hazard Communication Standard, 2.9 C.F.R 1910.1200, we are providing you with a Materials Safety Data Sheet (MSDS) for the hazardous material you are purchasing.</p> <p>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</p>

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Disclaimer - Continued

in your files for future reference.

Ceimig Limited. 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.

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