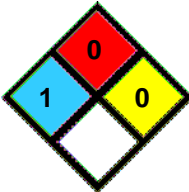


Rhenium (IV) Oxide Dihydrate

Ru	Rh	Pd	Ag	Re	Os	Ir	Pt	Au
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NFPA 	HMIS <table border="1"> <tr> <td style="background-color: #00B0F0;">HEALTH</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #FF0000;">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;">J</td> </tr> </table>	HEALTH	1	FLAMMABILITY	0	REACTIVITY	0	PERSONAL PROTECTION	J
HEALTH	1								
FLAMMABILITY	0								
REACTIVITY	0								
PERSONAL PROTECTION	J								

1. Product And Company Identification

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

Issue Date: 12/30/2010

Product Name: Rhenium (IV) Oxide Dihydrate
Chemical Name: Same as above
CAS Number: 12036-09-8
Chemical Family: Platinum group metal oxide
Chemical Formula: ReO₂.2H₂O
MSDS Number: 10006
Product Code: 1000-6

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
RHENNIUM (IV) OXIDE DIHYDRATE	12036-09-8	0 - 100

EMERGENCY OVERVIEW

Irritant

3. Hazards Identification

Primary Routes(s) Of Entry

Eye	Likely
Skin	Likely
Inhalation	Likely

3. Hazards Identification - Continued

Eye Hazards

Causes irritation.

Skin Hazards

Causes irritation. If absorbed through the skin may be harmful.

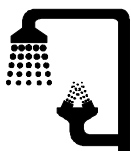
Ingestion Hazards

Not expected to be a problem in industry, if swallowed may be harmful.

Inhalation Hazards

Irritating to upper respiratory tract and mucous membranes.

First Aid (Pictograms)



4. First Aid Measures

Eye

Rinse eye with copious amounts of water. If discomfort persists seek medical attention immediately.

Skin

Immediately wash affected area with soap and water and rinse thoroughly. If discomfort persists seek medical attention immediately.

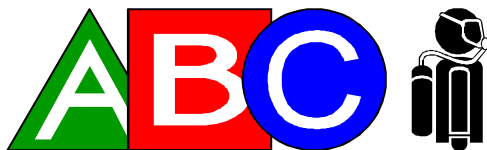
Ingestion

Seek medical attention immediately.

Inhalation

Get victim to fresh air immediately. If victim is not breathing provide artificial respiration. Keep victim warm. Seek medical attention immediately.

Fire Fighting (Pictograms)



5. Fire Fighting Measures

Flash Point Method: NA

Autoignition Point: NA °C

Flammability Class: non flammable

Fire And Explosion Hazards

No information available.

Extinguishing Media

Product is not flammable, choose proper extinguishing media to fight surrounding fire.

5. Fire Fighting Measures - Continued

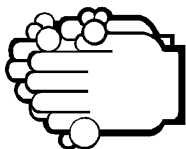
Fire Fighting Instructions

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

6. Accidental Release Measures

Wear protective clothing and ensure adequate ventilation. Pick up material mechanically and use proper disposal or reclaim methods.

Handling & Storage (Pictograms)



7. Handling And Storage

Handling And Storage Precautions

Keep containers tightly closed.
Use only with adequate ventilation.
Wash thoroughly after handling.

Handling Precautions

Handle under nitrogen. Wear proper personal protective equipment. Avoid inhalation.

Storage Precautions

Store in a tightly closed container under nitrogen in a cool dry area away from oxidizing agents.

Work/Hygienic Practices

Always use good personal hygiene after handling.

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 (Laboratory Fume Hood)

Safety shower and eyewash

Eye/Face Protection

ANSI approved safety glasses/goggles

Skin Protection

Rubber/Neoprene (use compatible chemical-resistant gloves)

Rhenium (IV) Oxide Dihydrate**Ru Rh Pd Ag Re Os Ir Pt Au****8. Exposure Controls/Personal Protection - Continued****Respiratory Protection**

NIOSH approved chemical cartridge respiratory for particulates and dust 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**

Black powder

Odor

odorless

Chemical Type: Mixture

Melting Point: 1832 F 1000 C

Vapor Density: 11.4 g/cm³ @ 20C

Solubility: insoluble

10. Stability And Reactivity

Stability: stable

Hazardous Polymerization: will not occur

Conditions To Avoid (Stability)

Follow handling and storage instructions and compound should remain stable.

Incompatible Materials

Oxidizing agents.

Hazardous Decomposition Products

Metal oxide fumes.

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...

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**

None

This substance is considered to be non-hazardous for shipping.



Rhenium (IV) Oxide Dihydrate

Ru Rh Pd Ag Re Os Ir Pt Au

15. Regulatory Information

U.S. Regulatory Information

All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

SARA Section 313 Notification

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.

Canadian Regulatory Information

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: Yes

European Union (EU) Regulatory Information

R36/37/38 - Irritating to eyes, respiratory system and skin

S3/9/49 - Keep only in the original container, in a cool, well-ventilated place

S24/25 - Avoid contact with skin and eyes

16. Other Information

NFPA Rating

Health: 1

Fire: 0

Reactivity: 0

HMIS Rating

Health: 1

Fire: 0

Reactivity: 0

Personal Protection: J

Revision/Preparer Information

MSDS Preparer: Wayne S. Sher

MSDS Preparer Phone Number: (410)398-7200

Disclaimer

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.

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.