


Rhenium (VII) Oxide

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;">2</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;">1</td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td style="text-align: center;">J</td> </tr> </table>	HEALTH	2	FLAMMABILITY	0	REACTIVITY	1	PERSONAL PROTECTION	J
HEALTH	2								
FLAMMABILITY	0								
REACTIVITY	1								
PERSONAL PROTECTION	J								

1. Product And Company Identification

Supplier 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	Manufacturer 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
Supplier Emergency Contacts & Phone Number Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887	Manufacturer Emergency Contacts & Phone Number Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887

Issue Date: 12/30/2010
Product Name: Rhenium (VII) Oxide
Chemical Name: Same as above
CAS Number: 1314-68-7
Chemical Family: Platinum group metal oxide
Chemical Formula: Re₂O₇
MSDS Number: 100011
Product Code: 1000-11

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
RHENIUM (VII) OXIDE	1314-68-7	0 - 100

EMERGENCY OVERVIEW

Irritant, oxidizer

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.

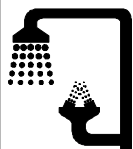
Ingestion Hazards

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

Inhalation Hazards

Irritating to upper respiratory tract and mucous membranes.

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

First Aid (Pictograms)**4. First Aid Measures****Eye**

Rinse eye with copious amounts of water for several minutes. Seek medical attention immediately.

Skin

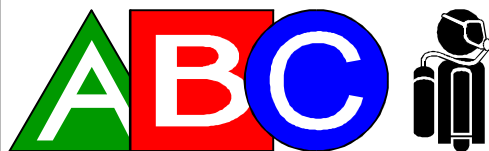
Immediately wash affected area with soap and water and rinse thoroughly. Seek medical attention immediately.

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

Rhenium (VII) oxide is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.

5. Fire Fighting Measures - Continued

Extinguishing Media

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

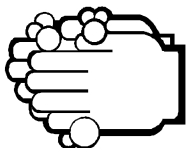
Fire Fighting Instructions

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 Precautions

Handle under a dry protective gas. Wear proper personal protective equipment. Ensure good ventilation, avoid inhalation.

Storage Precautions

Store in a tightly closed container under a dry protective gas in a cool dry place away from flammable substances and reducing 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)

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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**

Yellow powder

Odor

ND

Chemical Type: Mixture

Physical State: Solid

Melting Point: 567 °F 297 °C

Vapor Density: 6.103 g/cm³

Solubility: soluble

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

Water/ moisture, oxidizing agents.

Hazardous Decomposition Products

None known.

Conditions To Avoid (Polymerization)

Will not occur.

Reacts with reducing agents and flammable substances.

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.

Rhenium (VII) Oxide**Ru Rh Pd Ag Re Os Ir Pt Au****14. Transport Information****Proper Shipping Name**

Oxidizing solids, N.O.S. (rhenium (VII) oxide)

Hazard Class

5.1

DOT Identification Number

1479

DOT Shipping Label

5.1

Packaging Requirements

PG III

Additional Shipping Paper Description

IATA

Class: 5.1

UN/ ID number: 1479

Label: 5.1

Packaging Group: III

Proper Shipping Name: Oxidizing Solid, N.O.S. (rhenium (VII) oxide)

Always consult IATA shipping regulations before shipping.

15. Regulatory Information**U.S. Regulatory Information**

All components of this compound are listed in the TSCA inventory.

European Union (EU) Regulatory Information

Hazard symbols: O Oxidizer

Risk Phrases: 8 Contact with combustible material may cause fire.

DSCL - Europe (Pictograms)**16. Other Information****NFPA Rating**

Health: 0

Fire: 3

Reactivity: 0

Other: OX

HMIS Rating

Health: 2

Fire: 0

Reactivity: 1

Personal Protection: J

MATERIAL SAFETY DATA SHEET



Rhenium (VII) Oxide

Ru Rh Pd Ag Re Os Ir Pt Au

16. Other Information - Continued

HMIS Rating - Continued

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.

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