

# MATERIAL SAFETY DATA SHEET



## Ammonium Perrhenate

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

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>
<p><b>Issue Date:</b> 03/16/2009</p> <p><b>Product Name:</b> Ammonium Perrhenate <b>CAS Number:</b> 13598-65-7 <b>Chemical Family:</b> Rhenium Complex <b>Chemical Formula:</b> NH<sub>4</sub>O<sub>4</sub>Re <b>MSDS Number:</b> 10001 <b>Product Code:</b> 1000-1</p> <p><b>Synonyms</b> none</p>	

2. Composition/Information On Ingredients			
	Ingredient Name	CAS Number	Percent Of Total Weight
	Ammonium perrhenate	13598-65-7	98 - 100

EMERGENCY OVERVIEW
Oxidizer. Irritant.

**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. May be harmful if absorbed through the skin.

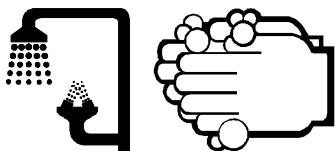
**Ingestion Hazards**

May be harmful if swallowed.

**Inhalation Hazards**

Irritation to respiratory tract. May be harmful if inhaled.

**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**

Wash area with soap and plenty of water. If discomfort occurs or persists, contact a physician immediately. Remove contaminate clothing and shoes and wash before reuse.

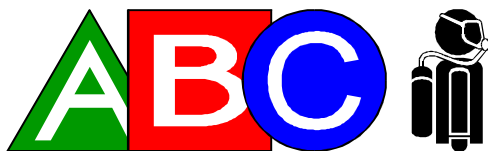
**Ingestion**

Give victim water provided they are concious. Never give anything by mouth to an unconcious person. Contact a physician immediately.

**Inhalation**

Remove to fresh air immediately. If victim is not breathing provide artificial respiration. Contact a physician immediately.

**Fire Fighting (Pictograms)**



**5. Fire Fighting Measures**

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

**Fire And Explosion Hazards**

Use proper safety equipment.

**Extinguishing Media**

Water spray, carbon dioxide, dry chemical or alcohol-resistant foam.

**Fire Fighting Instructions**

Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Use water spray to cool unopened containers.

**6. Accidental Release Measures**

Soak or sweep up and place in a sealed container. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Person protected with full face shield and approved respirator for 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. Avoid formation of dusts and aerosols. Ensure adequate ventilation. Keep away from ignition sources, no smoking. Keep away from combustible material.

**Storage Precautions**

Store in a tightly sealed container in a cool, dry well-ventilated place.

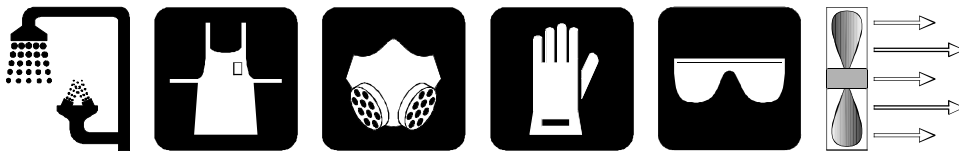
**Work/Hygienic Practices**

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)**



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**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)

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, fume 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**

White solid

**Chemical Type:** Mixture

**Physical State:** Solid

**Molecular Weight:** 268.24

**Vapor Density:** 3.97 g/ml @ 25C (77F)

**10. Stability And Reactivity**

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

**Conditions To Avoid (Stability)****Incompatible Materials**

Strong reducing agents, strong acids.

**Hazardous Decomposition Products**

Nitrogen oxides (NOx), rhenium oxides

**11. Toxicological Information**

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



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### 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

Oxidizing solid, n.o.s. (Ammonium perrhenate)

#### Hazard Class

5.1

#### DOT Identification Number

1479

#### Packaging Requirements

PG II

#### 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: 2

Fire: 0

Reactivity: 2

Other: OX

#### HMIS Rating

Health: 2

Fire: 0

Reactivity: 2

Personal Protection: J

#### Revision/Preparer Information

MSDS Preparer: Joseph J. Fittos III

MSDS Preparer Phone Number: 410-398-7200

This MSDS Supersedes A Previous MSDS Dated: 01/23/2009

#### 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.

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### Disclaimer - Continued

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

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