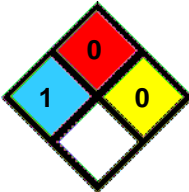


**Palladium (II) Bromide**

Ru	Rh	Pd	Ag	Re	Os	Ir	Pt	Au
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<b>NFPA</b> 	<b>HMIS</b> <table border="1"> <tr> <td style="background-color: #00B0F0;">HEALTH</td> <td style="text-align: center;">01</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;">B</td> </tr> </table>	HEALTH	01	FLAMMABILITY	0	REACTIVITY	0	PERSONAL PROTECTION	B
HEALTH	01								
FLAMMABILITY	0								
REACTIVITY	0								
PERSONAL PROTECTION	B								

**1. Product And Company Identification**

<b>Supplier</b> Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States  <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	<b>Manufacturer</b> Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States  <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
<b>Supplier Emergency Contacts &amp; Phone Number</b> Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887	<b>Manufacturer Emergency Contacts &amp; Phone Number</b> Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887

**Issue Date:** 12/02/2010

**Product Name:** Palladium (II) Bromide  
**Chemical Name:** Palladium (II) Bromide, Palladous Bromide  
**CAS Number:** 13444-94-5  
**Chemical Family:** Platinum Group Metal Salts  
**Chemical Formula:** PdBr<sub>2</sub>  
**MSDS Number:** 5002  
**Product Code:** 5002

**2. Composition/Information On Ingredients**

Ingredient Name	CAS Number	Percent Of Total Weight
Palladium (II) Bromide Dihydrate	13444-94-5	99

**EMERGENCY OVERVIEW**

**To the best of our knowledge the chemical, physical, and toxicological properties have not been thoroughly investigated. Avoid elevated temperatures and high humidity. Product incompatible with reducing agents. May decompose hydrogen bromide vapors.**

**Hazards Identification (Pictograms)****3. Hazards Identification****Primary Routes(s) Of Entry**

Inhalation: Likely  
Skin: Likely  
Ingestion: Likely

**Eye Hazards**

Irritation

**Skin Hazards**

Irritation

**Ingestion Hazards**

Irritation

Does not cause serious toxic manifestations

**Inhalation Hazards**

Irritation

**Conditions Aggravated By Exposure**

May cause irritation of the respiratory system. Maintain housekeeping and personal hygiene to minimize exposure and prevent sensitization.

**Conditions Aggravated By Overexposure**

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

**4. First Aid Measures****Eye**

Flush for 15 minutes with plenty of water. If discomfort occurs or persists, contact a physician.

**Skin**

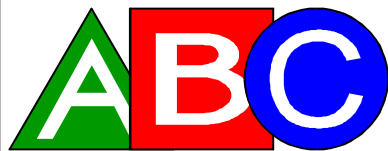
Flush area for 15 minutes with water and wash with soap and water. If discomfort occurs or persists, contact a physician. Remove contaminated clothing and shoes and wash before reuse.

**Ingestion**

Not expected to be a problem in industry. However if swallowed and discomfort occurs, contact a physician.

**Inhalation**

Remove to fresh air immediately. If discomfort occurs or persists, contact a physician.

**Fire Fighting (Pictograms)****5. Fire Fighting Measures****Flash Point Method:** NA**Flammability Class:** NA**Fire And Explosion Hazards**

Use proper safety equipment. Can decompose to emit toxic hydrogen bromide gas.

**Extinguishing Media**

Use water spray, foam, dry chemical, carbon dioxide or medium for primary source.

**Fire Fighting Instructions**

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

**6. Accidental Release Measures**

Soak up and place in a sealed container. Person protected with full face shield and proper respirator for acid gas.

**7. Handling And Storage****Handling And Storage Precautions**

Avoid contact with eyes, prolonged or repeated contact with skin. Avoid breathing dust. Use compatible chemical-resistant gloves. Wash hands thoroughly after handling.

**Handling Precautions**

Avoid contact with eyes.

Avoid contact with skin and clothing.

Avoid creating dust.

**Storage Precautions**

Store in a cool dry place.

**Work/Hygienic Practices**

Wash thoroughly with soap and water after handling.

**Other Precautions**0.01 mg/m<sup>2</sup> high efficiency particular respirator/supplied air respirator/self-contained breathing apparatus; 0.2 mg/m<sup>2</sup> same as above with full face piece; 1 mg/m<sup>3</sup> 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.

**7. Handling And Storage - Continued****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: NA

**Eye/Face Protection**

ANSI approved safety glasses/goggles

**Skin Protection**

Rubber/Neoprene (use compatible chemical-resistant gloves).

**Respiratory Protection**

Chemical cartridge respirator for dust/mist/fume/radionuclide, 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**

Red-brown crystals/powder

**Odor**

Slight odor of hydrogen bromide

**Chemical Type:** Mixture

**Physical State:** Solid

**Melting Point:** Decomposes °C

**Boiling Point:** NA °C

**Specific Gravity:** 5.2

**Molecular Weight:** 266.22

**Vapor Pressure:** NA

**Vapor Density:** NA

**pH Factor:** NA

**Solubility:** Slightly Soluble

**Evaporation Rate:** NA

**10. Stability And Reactivity**

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

**Palladium (II) Bromide**

Ru Rh Pd Ag Re Os Ir Pt Au

**10. Stability And Reactivity - Continued****Conditions To Avoid (Stability)**

Elevated temperature and high humidity

**Incompatible Materials**

Mixing with reducing agents

**Hazardous Decomposition Products**

Hydrogen bromide vapors

**11. Toxicological Information**

No Data Available...

**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**

Non-hazardous

**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.

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

Health: 1

Fire: 0

Reactivity: 0

**HMIS Rating**

Health: 01

Fire: 0

# MATERIAL SAFETY DATA SHEET



## Palladium (II) Bromide

**Ru Rh Pd Ag Re Os Ir Pt Au**

### 16. Other Information - Continued

#### HMIS Rating - Continued

Reactivity: 0

Personal Protection: B

#### Revision/Preparer Information

MSDS Preparer: Wayne Sher

MSDS Preparer Phone Number: 410-398-7200

This MSDS Supersedes A Previous MSDS Dated: 03/15/1998

#### 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.

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