

# MATERIAL SAFETY DATA SHEET



## Potassium tetrabromoaurate (III) Hydrate

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;">02</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;">0</td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td style="text-align: center;">C</td> </tr> </table>	HEALTH	02	FLAMMABILITY	0	REACTIVITY	0	PERSONAL PROTECTION	C
HEALTH	02								
FLAMMABILITY	0								
REACTIVITY	0								
PERSONAL PROTECTION	C								

### 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>

**Issue Date:** 12/30/2010

**Product Name:** Potassium tetrabromoaurate (III) Hydrate  
**Chemical Name:** Potassium tetrabromoaurate (III) Dihydrate  
**CAS Number:** 14323-32-1  
**Chemical Family:** Halometallate Salt  
**Chemical Formula:** KAuBr<sub>4</sub>.2H<sub>2</sub>O  
**MSDS Number:** 2003  
**Product Code:** 2003

**Synonyms**  
Potassium gold tetrabromide hydrate

### 2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
Potassium tetrabromoaurate (III) Hydrate	14323-32-1	99

### EMERGENCY OVERVIEW

**Irritating to eyes, skin and respiratory tract.**



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**Hazards Identification (Pictograms)**



**3. Hazards Identification**

**Primary Routes(s) Of Entry**

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

**Eye Hazards**

Causes eye irritation.

**Skin Hazards**

Causes skin irritation.

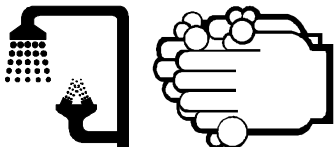
**Ingestion Hazards**

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**

In case of contact, immediately flush skin with plenty of water for at least 15 minutes.

**Ingestion**

Call a physician or a poison control center immediately. DO NOT INDUCE VOMITING.

**Inhalation**

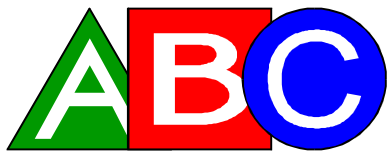
Remove the victim from the contaminated area while protecting yourself from exposure by wearing an appropriate respirator. Put a similar respirator on the victim if possible. Call a physician or a poison control center immediately. Get medical attention immediately.



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**Fire Fighting (Pictograms)**



**5. Fire Fighting Measures**

**Flash Point:** N/A °C

**Flammability Class:** N/A

**Fire And Explosion Hazards**

No unusual fire or explosion hazards.

**Extinguishing Media**

In case of fire, use water fog, dry chemical, CO<sub>2</sub>, 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.

Avoid release to the environment.

Sweep up and remove immediately.

**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.

**Protective Clothing (Pictograms)**





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<b>8. Exposure Controls/Personal Protection</b>
<b>Engineering Controls</b> Use with adequate ventilation.
<b>Eye/Face Protection</b> Safety glasses with side shields or goggles.
<b>Skin Protection</b> Chemical-resistant gloves.
<b>Respiratory Protection</b> 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.
<b>9. Physical And Chemical Properties</b>
<b>Appearance</b> Reddish-brown xtl.
<b>Chemical Type:</b> Mixture
<b>Physical State:</b> Solid
<b>Molecular Weight:</b> 591.71
<b>Solubility:</b> very soluble in water.
<b>10. Stability And Reactivity</b>
<b>Stability:</b> Stable under normal conditions
<b>Hazardous Polymerization:</b> Will not polymerize
<b>Incompatible Materials</b> Active metals.
<b>Hazardous Decomposition Products</b> Potassium bromide, gold, bromine, hydrobromic acid and water.
<b>11. Toxicological Information</b>
No Data Available...
<b>12. Ecological Information</b>
No Data Available...
<b>13. Disposal Considerations</b>
Dispose in accordance with applicable federal, state and local government regulations.
<b>14. Transport Information</b>
<b>Proper Shipping Name</b> Non-hazardous
<b>15. Regulatory Information</b>
<b>U.S. Regulatory Information</b> All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

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### 15. Regulatory Information - Continued

#### 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

All ingredients of this product comply with the New Substances Notification requirements of the Canadian Environmental Protection Act (CEPA).

#### European Union (EU) Regulatory Information

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

S36/37/39 - Wear suitable protective clothing, gloves, and eye/face protection

S24/25 - Avoid contact with skin and eyes

#### DSCL - Europe (Pictograms)



### 16. Other Information

#### NFPA Rating

Health: 2

Fire: 0

Reactivity: 0

#### HMIS Rating

Health: 02

Fire: 0

Reactivity: 0

Personal Protection: C

#### Revision/Preparer Information

MSDS Preparer: Wayne S. Sher

#### 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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