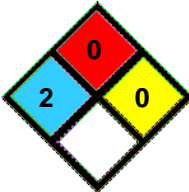


**Gold (III) Chloride**

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

**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:** 03/31/2011

**Product Name:** Gold (III) Chloride  
**Chemical Name:** Gold (III) Chloride, gold Trichloride, Auric Chloride  
**CAS Number:** 13453-07-1  
**Chemical Family:** Group 1B Metal Salts  
**Chemical Formula:** AuCl<sub>3</sub>  
**MSDS Number:** 2006  
**Product Code:** 2006

**2. Composition/Information On Ingredients**

Ingredient Name	CAS Number	Percent Of Total Weight
Gold (III) Chloride	13453-07-1	98 - 100

**EMERGENCY OVERVIEW**

**Irritant**

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

Eye: Likely  
Inhalation: Likely  
Skin: Likely  
Ingestion: Likely

**Eye Hazards**

Irritation.

**Skin Hazards**

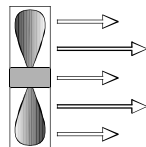
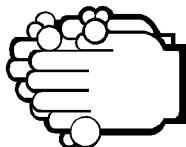
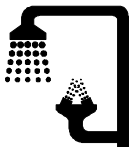
Irritation. May be harmful if absorbed through the skin.

**Ingestion Hazards**

May be harmful if swallowed.

**Inhalation Hazards**

Causes respiratory tract irritation. 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 with soap and copious amounts of water. If discomfort occurs or persists, contact a physician immediately. Remove contaminated clothing and shoes and wash before reuse.

**Ingestion**

Wash out mouth with water provided victim is conscious. Never give anything by mouth to an unconscious person. Contact a physician immediately.

**Inhalation**

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

**5. Fire Fighting Measures****Flash Point:** NA °C**Autoignition Point:** NA °C**Flammability Class:** NA**Fire And Explosion Hazards**

Use proper safety equipment. Can decompose to emit toxic fumes of chlorine.

**Extinguishing Media**

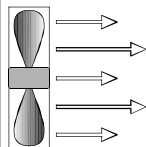
Use water spray, foam, carbon dioxide, or dry chemical.

**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 for disposal or reclamation. Use proper PPE. Ventilate area and wash spill site after pick up is completed.

**Handling & Storage (Pictograms)****7. Handling And Storage****Handling Precautions**

Avoid contact with eyes, prolonged or repeated contact with skin. Avoid breathing dust. Avoid formation of dust and aerosols. Ensure adequate ventilation.

**Storage Precautions**

Store in a tightly sealed container in a cool, dry well ventilated area under inert atmosphere.

**Work/Hygienic Practices**

Use good personal hygiene after handling.

Light sensitive.

Air and Moisture Sensitive.

Handle and store under inert gas.

**Other Precautions**

0.01 ppm high efficiency particulate 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.

**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: Closed Ventilation system (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 and acid gas 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 hygienic facilities for washing.

**9. Physical And Chemical Properties**

**Appearance**

Red-brown to dark red hygroscopic crystals

**Chemical Type:** Mixture

**Physical State:** Solid

**Melting Point:** 254 (decomposes) °C

**Boiling Point:** 509 °F 265 °C

**Specific Gravity:** 3.9

**Molecular Weight:** 303.33

**Solubility:** VERY SOLUBLE (68 g/100ml)

**10. Stability And Reactivity**

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

**Conditions To Avoid (Stability)**

Moisture and light.

**Incompatible Materials**

Ammonia and amines.

**10. Stability And Reactivity - Continued****Hazardous Decomposition Products**

Hydrogen chloride gas

**11. Toxicological Information****Reproductive Effects**

Toxicity

Rat

Subcutaneous

Paternal effects: Testes, epididymis, sperm duct

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**

Considered non-hazardous for transport

**Additional Shipping Paper Description**

IATA: Same as DOT. Always consult IATA manual before shipping.

**ADR - Europe (Pictograms)****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: Yes



# MATERIAL SAFETY DATA SHEET

## Gold (III) Chloride

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

### 15. Regulatory Information - Continued

#### European Union (EU) Regulatory Information

Symbol of Danger: Xi

Indication of Danger: Irritant

R: 36/37/38

Irritating to eyes, respiratory system and skin.

S: 26-36

In case of contact with eyes rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

### 16. Other Information

#### NFPA Rating

Health: 2

Fire: 0

Reactivity: 0

#### HMIS Rating

Health: 2

Fire: 0

Reactivity: 0

Personal Protection: J

#### Revision/Preparer Information

MSDS Preparer: Wayne S. Sher

MSDS Preparer Phone Number: 410-398-7200

This MSDS Supersedes A Previous MSDS Dated: 08/15/2003

### Disclaimer

In compliance with the OSHA Hazard Communication Standard, 29 C.F.R. 1910.1200, we are providing you with a Material 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 mind, a copy should be forwarded to the supervisor of the user or to the user themselves, and a 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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