

Product# 2005

**Safety Data Sheet**  
29 CFR 1910.1200

**Section 1: Company and Product Identification**

**Product Name:** Gold (III) Bromide

**Product Code:** 2005

**Company:** Colonial Metals, Inc.  
Building 20  
505 Blue Ball Road  
Elkton, MD 21921 United States  
Company Contact: EHS Director  
Telephone Number: 410-398-7200  
FAX Number: 410-398-2918  
E-Mail : info@colonialmetals.com  
Web Site: www.colonialmetals.com



www.colonialmetals.com

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

**Section 2: Hazards Identification**

GH05 BLANK BLANK BLANK

**Hazard Pictograms:**



**Signal Word:** Danger

**Hazard Category:** Acute tox, oral Cat 4  
Skin corrosion/irritation Cat 1  
Serious eye damage/eye irritation Cat 2  
Aspiration hazard Cat 2

**Hazard Statements:** H302: Harmful if swallowed  
H314: Causes severe skin burns and eye damage  
H319: Causes serious eye irritation  
H305: May be harmful if swallowed and enters airways

P264: Wash thoroughly after handling  
P280: Wear protective gloves/protective clothing/eye protection/face protection  
P308+313: IF exposed or concerned: Get medical advice/attention  
P402+404: Store in a dry place. Store in a closed container  
P501: Dispose of contents/container in accordance with local/national/international rules.

**Hazards not otherwise classified:** None known

**Section 3: Composition / Information on Ingredients**

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Gold (III) Bromide	Corrosive - Skin Sensitizer	10294-28-7	98 - 100
<p><b>Product Name:</b> Gold (III) Bromide <b>Chemical Family:</b> Group 1B Metal Salt <b>Chemical Formula:</b> AuBr<sub>3</sub></p>			

**Section 4: First Aid Measures**

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**General Info:** Ensure proper ventilation.

**Notable Exposure symptoms:** Irritation to skin, eyes and areas of contact.

**If ingested:** Rinse mouth. Seek immediate medical attention. Clear the airway and administer artificial respiration if not breathing.  
If swallowed, do not induce vomiting unless directed to do so by medical personnel.

**If inhaled:** 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. Get medical attention immediately.

**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation develops or persists.

**Skin contact:** Take off immediately all contaminated clothing. Rinse with water thoroughly. Get medical advice if irritation develops or persists.

**Additional Info:** Observe for any symptoms for several hours after exposure. Follow up with medical attention if symptoms develop.

**Section 5: Fire Fighting Measures**

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**General Info:** Use proper safety equipment. This substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Can decompose to emit toxic nitrous oxide (NOX) gases.

**Extinguishing Method / Equipment:** Use water spray, foam, dry chemical, carbon dioxide or medium for primary source.

**Hazardous Decomposition Info:** Constituents associated with burning / combustion are to be considered toxic. Firefighters should wear self-contained breathing apparatus and full protective gear.  
Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.  
EMITS TOXIC FUMES UNDER FIRE CONDITIONS. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. MAY ACCELERATE COMBUSTION.

**Section 6: Accidental Release Measures**

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**Personal precautions, protective equipment and procedures:** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment (SCBA) and clothing during clean-up. Avoid breathing vapor. Ventilate area if easy to do so and wash spill site after clean up is complete. Contact local authorities if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Containment Equipment and Procedures:** Clean up using a neutralizing agent and place in a proper waste disposal container. Person protected with full face shield and NIOSH approved respirator and cartridge for chlorine vapor and dust.

**Cleanup Procedures:** Ventilate area and wash spill site after pick up is completed  
Collect all contaminated media, or other cleanup materials into a waste receptacle. If cleaning surface is necessary, utilize vacuum cleaner, provided adequate ventilation is available.

**Section 7: Handling and Storage**

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**Safe Handling Precautions:** Do not handle until all safety precautions have been read and understood. Keep containers tightly closed. Ensure adequate ventilation. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment and wash thoroughly after handling.

**Work/Hygienic Practices:** Use good personal hygiene after handling

**Recommendations for Storage:** Store away from oxidizing agents and strong bases in a tightly sealed container in a cool, dry place.  
Keep away from ignition sources.

**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.

**Section 8: Exposure Control / Personal Protection**

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**General / Engineering** Ventilation: Local Exhaust: Required in handling area**Controls:** Mechanical: Desirable to insure concentration of material below TLV/TWA levels  
Other: Closed ventilation system (Laboratory Fume Hood)**Work Clothing:** Protective work clothing which covers skin and prevents exposures. Lab coat/apron, flame and chemical resistant protective clothing, eye wash, safety shower, and hygiene facilities for washing.**Eye/face protection:** Wear safety glasses with side shields or goggles or face shield.**Skin Protection:** Wear chemical resistant gloves.**Respiratory Protection:** NIOSH approved chemical cartridge respirator for acid gas/chlorine (42 CFR part 84) and self-contained breathing apparatus with full face shield.**Section 9: Physical and Chemical Properties**

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<b>State:</b> Solid	<b>Melting Point:</b> 160 °C 320°F	<b>Freezing Point:</b> N/A
<b>Color:</b> Brown Granules	<b>Boiling Point/Range:</b> N/A	<b>pH:</b> N/A
<b>Molecular Wt.</b> 232.42	<b>Odor:</b> N/A	<b>Water Solubility:</b> N/A
<b>Evaporation rate:</b> N/A	<b>Flash Point:</b> N/A	<b>Part. Coeff (n-octanol/water):</b> N/A
<b>Upper Flam Limits:</b> N/A	<b>Lower Flam Limits:</b> N/A	<b>Vapor Density:</b> N/A
<b>VOC Content (lbs/gal):</b> N/A	<b>Viscosity:</b> N/A	<b>Autoignition Temp:</b> N/A
<b>Specific Gravity:</b> N/A		

**Section 10: Stability and Reactivity**

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**General:** This product is stable and non-reactive under normal conditions of use. Product is not subject to hazardous polymerization. Avoid open flame and ignition sources. Conditions To Avoid (Stability) Elevated temperature.**Incompatible materials:** Oxidizing agents, bases. Gold can form explosive compounds with ammonia, ammonium hydroxide + aqua regia, and hydrogen peroxide.**Decomposition products:** Metal oxide fume, hydrogen bromide**Section 11: Toxicological Information**

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**General Information:** To the best of our knowledge, the chemical, physical, and toxicological properties of this compound have not been thoroughly investigated.**Section 12: Ecological Information**

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**General information:** No specific data available.**Section 13: Disposal Information**

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**Product disposal:** Consult Federal EPA, State and local regulations for proper disposal/recycle/reclamation**Container disposal:** Treat empty containers with extra care. Consult waste contractor.**Other considerations:** NOTE: Chemical additions, processing, or otherwise altering this material may make the waste management information presented above incomplete, inaccurate, or otherwise inappropriate.**Section 14: Transport Information**

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**DOT: Proper Shipping Name:**

Corrosive solid, acidic, inorganic, n.o.s. (Gold (III) Bromide)

**Hazard Class:**

8

**DOT Identification Number:**

3260

**Packaging Requirements:**

III

**IMO/IMDG:** Inquire for further transport information.**IATA:** Same as DOT. Always consult IATA manual before shipping**OTHER:** Inquire for further transport information.

**Section 15: Regulatory Information**

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**TSCA:** 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** This product does not contain any ingredients regulated under Section 313 of the Emergency

**Notification:** Planning and Community Right-To-Know Act of 1986 or 40 CFR 372

**Canadian Regulatory Information:** All components of this product are listed on the NDSL

**European Union (EU) Hazard symbols:**

**Regulatory Information:** C corrosive

**Information:**

Risk Phrases:

34 Causes burns

Safety Phrases:

20 When using do not eat or drink

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves, and eye/face protection

45 In case of accident or if you feel unwell, seek medical advice immediately

60 This material and it's container must be disposed of as hazardous waste.

**Section 16: Other Information**

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**NFPA Rating**

Health: 3

Fire: 0

Reactivity: 0

Other: COR

**HMIS Rating**

Health: 3

Fire: 0

Reactivity: 1

Personal

Protection: J

**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 believe to be correct; however, you (the customer), should preform 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.

**Version Date:**

7/14/2016