


# MATERIAL SAFETY DATA SHEET

## Gold (III) Hydroxide

<b>NFPA</b> 	<b>HMIS</b> <table border="1"><tr><td>HEALTH</td><td style="text-align: center;">1</td></tr><tr><td>FLAMMABILITY</td><td style="text-align: center;">0</td></tr><tr><td>REACTIVITY</td><td style="text-align: center;">0</td></tr><tr><td>PERSONAL PROTECTION</td><td style="text-align: center;"> </td></tr></table>	HEALTH	1	FLAMMABILITY	0	REACTIVITY	0	PERSONAL PROTECTION	
HEALTH	1								
FLAMMABILITY	0								
REACTIVITY	0								
PERSONAL PROTECTION									

### 1. Product And Company Identification

<b>Supplier</b> Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States  Company Contact: Joseph Fittos III Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: jfittos@colonialmetals.com Web Site: colonialmetals.com	<b>Manufacturer</b> Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States  Company Contact: Joseph Fittos III Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: jfittos@colonialmetals.com Web Site: 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:** 05/30/2007  
**Product Name:** Gold (III) Hydroxide  
**CAS Number:** 1303-52-2  
**Chemical Family:** Group 1B Metal Salt  
**Chemical Formula:** Au(OH)<sub>3</sub>  
**MSDS Number:** 2013  
**Product Code:** 2013

### 2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
Gold (III) Hydroxide	1303-52-2	98 - 100

### EMERGENCY OVERVIEW

**Irritant.**

### 3. Hazards Identification

<b>Primary Routes(s) Of Entry</b>	
Eyes	Likely
Skin	Likely
Inhalation	Likely
<b>Eye Hazards</b>	
Irritating to eyes.	

# MATERIAL SAFETY DATA SHEET

## Gold (III) Hydroxide

### 3. Hazards Identification - Continued

#### Skin Hazards

Irritating to skin.

#### Ingestion Hazards

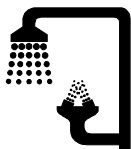
Not expected to be a problem in industry. If it does occur, may cause digestive tract irritation.

#### Inhalation Hazards

Irritating to respiratory tract.

The chemical, physical, and toxicological effects of this compound have not been thoroughly investigated.

### First Aid (Pictograms)



### 4. First Aid Measures

#### Eye

Flush with copious amounts of water for at least 15 minutes. If discomfort continues, seek medical attention immediately.

#### Skin

Wash with soap and water. If discomfort continues, seek medical attention immediately.

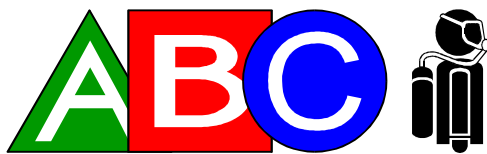
#### Ingestion

Seek medical attention immediately.

#### Inhalation

Remove to fresh air immediately. If victim is not breathing give artificial respiration. Keep patient warm. Seek medical attention immediately.

### Fire Fighting (Pictograms)



### 5. Fire Fighting Measures

**Flash Point:** NA °F NA °C

**Flash Point Method:** NA

**Autoignition Point:** NA °F NA °C

**Flammability Class:** Non-flammable

#### Fire And Explosion Hazards

Use proper safety equipment.

#### Extinguishing Media

Use proper extinguishing media to fight surrounding fire.

#### Fire Fighting Instructions

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

# MATERIAL SAFETY DATA SHEET

## Gold (III) Hydroxide

### 6. Accidental Release Measures

Clean up 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. Ventilate area and wash spill site after pick up is completed.

### 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

Don't breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

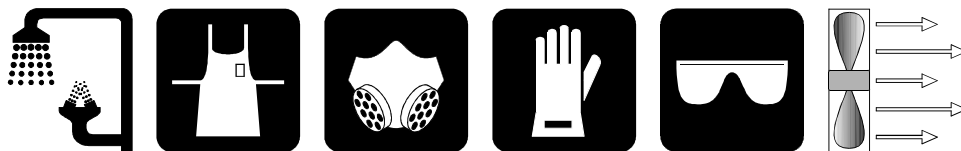
#### Storage Precautions

Store in a tightly closed container in a cool, dry area.

#### Work/Hygienic Practices

Use good personal hygiene after handling.

### 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

Brown powder

#### Odor

odorless

#### Odor Threshold

NA

# MATERIAL SAFETY DATA SHEET

## Gold (III) Hydroxide

### 9. Physical And Chemical Properties - Continued

#### Odor Threshold - Continued

**Chemical Type:** Mixture

**Physical State:** Solid

**Melting Point:** ND °C

**Boiling Point:** ND °C

**Molecular Weight:** 248.02

**Solubility:** insoluble

### 10. Stability And Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

#### Conditions To Avoid (Stability)

No decomposition if used and stored according to specifications.

#### Incompatible Materials

Light, ammonia, oxidizing agents. Gold can form explosive compounds with ammonia, ammonium hydroxide + aqua regia, and hydrogen peroxide.

#### Hazardous Decomposition Products

None known.

#### Conditions To Avoid (Polymerization)

Will not occur.

### 11. Toxicological Information

The chemical, physical, and toxicological effects 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

non-hazardous

### 15. Regulatory Information

#### U.S. Regulatory Information

Listed on the TSCA inventory

#### Canadian Regulatory Information

All components of this product are listed on the NDSL.

### 16. Other Information

#### NFPA Rating

**Health:** 1

**Fire:** 0

**Reactivity:** 0

# MATERIAL SAFETY DATA SHEET

## Gold (III) Hydroxide

### 16. Other Information - Continued

#### NFPA Rating - Continued

#### HMIS Rating

Health: 1

Fire: 0

Reactivity: 0

#### Revision/Preparer Information

MSDS Preparer: Joseph J. Fittos III

MSDS Preparer Phone Number: (410)398-7200

This MSDS Supersedes A Previous MSDS Dated: 05/30/2007

### 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.

Printed Using MSDS Generator™ 2000