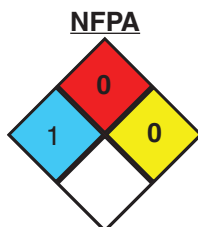


# MATERIAL SAFETY DATA SHEET

## Gold (III) Hydroxide



**HMIS**

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	

### 1. Product And Company Identification

**Supplier**

DF Goldsmith Chemical and Metal  
909 Pitner Avenue  
Evanston, IL 60202, USA

Telephone Number: 847-869-7800

FAX Number: 847-869-2531

E-mail: goldchem@aol.com

Web Site: www.dfgoldsmith.com

**Manufacturer**

DF Goldsmith Chemical and Metal  
909 Pitner Avenue  
Evanston, IL 60202, USA

Telephone Number: 847-869-7800

FAX Number: 847-869-2531

E-mail: goldchem@aol.com

Web Site: www.dfgoldsmith.com

**Supplier Emergency Contacts & Phone Number**

Chemtrac: 800-424-9300

**Supplier Emergency Contacts & Phone Number**

Chemtrac: 800-424-9300

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: 79-196

Product Code: 79-196

### 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

**Primary Routes(s) Of Entry**

Eyes Likely

Skin Likely

Inhalation Likely

**Eye Hazards**

Causes burns.

**Skin Hazards**

Irritating to skin.

# MATERIAL SAFETY DATA SHEET

## Gold (III) Hydroxide

### 3. Hazards Identification (cont)

#### 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

# MATERIAL SAFETY DATA SHEET

## Gold (III) Hydroxide

### 9. Physical And Chemical Properties (cont)

#### Odor Threshold

NA

**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 **Regulatory Information**

#### 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) Hydroxide

### 15. Other Information

#### **NFPA Rating**

Health: 1  
Fire: 0  
Reactivity: 0

#### **HMIS Rating**

Health: 1  
Fire: 0  
Reactivity: 0

#### **Revision/Preparer Information**

**MSDS Preparer: DF Goldsmith Chemical and Metal**

**MSDS Preparer Phone Number: 847-869-7800**

**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 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.

DF Goldsmith Chemical and Metal 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.

# **MATERIAL SAFETY DATA SHEET**

## **Gold (III) Hydroxide**



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