


# MATERIAL SAFETY DATA SHEET

## Gold (I) Iodide

<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;">E</td></tr></table>	HEALTH	1	FLAMMABILITY	0	REACTIVITY	0	PERSONAL PROTECTION	E
HEALTH	1								
FLAMMABILITY	0								
REACTIVITY	0								
PERSONAL PROTECTION	E								

### 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
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<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
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**Issue Date:** 04/27/2007  
**Product Name:** Gold (I) Iodide  
**CAS Number:** 10294-31-2  
**Chemical Family:** Group 1B Metal salt  
**Chemical Formula:** AuI  
**MSDS Number:** 2019  
**Product Code:** 2019

### 2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
Gold (I) Iodide	10294-31-2	0 - 100

### EMERGENCY OVERVIEW

**Irritant**

### 3. Hazards Identification

**Primary Routes(s) Of Entry**

Eyes	Likely
Skin	Likely
Inhalation	Likely
Oral	Unlikely

**Eye Hazards**  
Irritating to eyes.

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### 3. Hazards Identification - Continued

#### Skin Hazards

Irritating to skin.

#### Ingestion Hazards

Not likely in industry.

#### Inhalation Hazards

Irritating to mucous membranes and upper respiratory tract.  
Repeated or prolonged exposure is not known to aggravate medical conditions.

### First Aid (Pictograms)



### 4. First Aid Measures

#### Eye

Flush immediately with copious amounts of water for at least 15 minutes. If further irritation occurs, consult a physician immediately.

#### Skin

Immediately wash with soap and copious amounts of water. If further irritation occurs, consult a physician immediately.  
Remove contaminated clothing and shoes and wash before reuse.

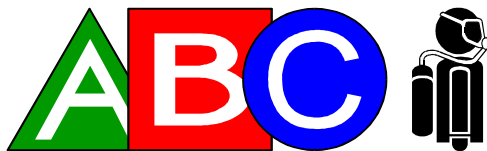
#### Ingestion

Not expected to be a problem in industry, but if it does occur wash out mouth with water provided the person is conscious. Never give anything by mouth to someone that is unconscious. DO NOT induce vomiting unless instructed to by medical personnel. Loosen tight clothing including collars and belts. Get medical attention immediately.

#### Inhalation

Remove to fresh air. If breathing is difficult give oxygen. If person is not breathing give artificial respiration. Seek medical attention immediately.

### Fire Fighting (Pictograms)



### 5. Fire Fighting Measures

**Flash Point:** NA °C

**Autoignition Point:** NA °C

**Flammability Class:** Not Flammable

**Lower Explosive Limit:** NA

**Upper Explosive Limit:** NA

#### Fire And Explosion Hazards

When heated to decomposition, it emits toxic iodine fumes.

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## Gold (I) Iodide

### 5. Fire Fighting Measures - Continued

#### Extinguishing Media

Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.

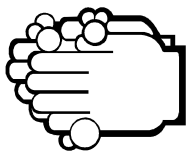
#### Fire Fighting Instructions

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

### 6. Accidental Release Measures

Evacuate area. For clean up wear a NIOSH/MSHA approved respirator, safety goggles, rubber boots, and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after pick up is completed.

### Handling & Storage (Pictograms)



### 7. Handling And Storage

#### Handling And Storage Precautions

Do not breathe dust. Keep away from incompatible materials such as oxidizing agents, metals, acids, and alkalis.

#### Handling Precautions

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

#### Storage Precautions

Keep in a tightly closed container in a cool, well ventilated area. Material is light sensitive and hygroscopic.

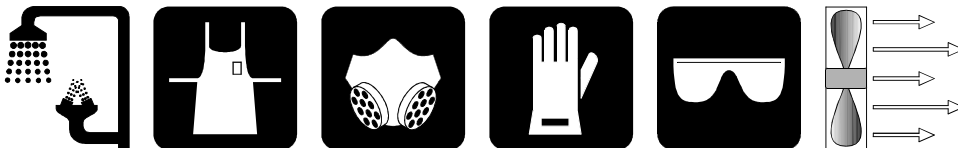
#### Work/Hygienic Practices

Always use good personal hygiene after handling.

#### 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.

### 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 goggles, safety glasses, or full face shield.

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### 8. Exposure Controls/Personal Protection - Continued

#### Skin Protection

Appropriate gloves, rubber/neoprene (use compatible chemical-resistant gloves). Lab coat or apron.

#### Respiratory Protection

NIOSH approved chemical cartridge respirator for particulates and acid gas or self-contained breathing apparatus with full face shield.

#### Other/General Protection

Flame and chemical resistant protective clothing, eye wash, safety shower, and hygienic facilities for washing.

### 9. Physical And Chemical Properties

#### Appearance

Yellow solid.

#### Odor

Metallic odor-iodine.

#### Odor Threshold

NA

**Chemical Type:** Mixture

**Physical State:** Solid

**Melting Point:** 248 °F 120 °C

**Specific Gravity:** 8.25 g/cm<sup>3</sup>

**Solubility:** Slightly soluble in cold water

### 10. Stability And Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

#### Conditions To Avoid (Stability)

Incompatible materials. Moisture. Light.

#### Incompatible Materials

Oxidizing agents, metals, acids, alkalis, ammonia, amines.

#### Hazardous Decomposition Products

Iodine.

### 11. Toxicological Information

To the best of our knowledge the toxicological, chemical, and physical properties of this compound have not been fully 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.

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## Gold (I) Iodide

### 14. Transport Information

#### Proper Shipping Name

None, non-hazardous for transport

### 15. Regulatory Information

#### U.S. Regulatory Information

Gold (I) iodide is TSCA registered.

#### 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: No

NDSL: Yes

#### European Union (EU) Regulatory Information

Symbol of danger: Xi

Indication of danger: Irritant

R: 36/37/38

Risk Statements: Irritating to eyes, respiratory system and skin.

S: 26-37/39

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

Wear suitable gloves and eye/face protection.

#### DSCL - Europe (Pictograms)



### 16. Other Information

#### NFPA Rating

Health: 1

Fire: 0

Reactivity: 0

#### HMIS Rating

Health: 1

Fire: 0

Reactivity: 0

Personal Protection: E

#### Revision/Preparer Information

MSDS Preparer: Joseph J. Fittos III

MSDS Preparer Phone Number: (410)398-7200

#### 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

# **MATERIAL SAFETY DATA SHEET**

## **Gold (I) Iodide**

### **Disclaimer - Continued**

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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