


MATERIAL SAFETY DATA SHEET

Gold (I) Chloride

| | | | | | | | | | |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---|--------------|---|------------|---|---------------------|---|
| NFPA  | HMIS <table border="1"><tr><td>HEALTH</td><td style="text-align: center;">3</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;">J</td></tr></table> | HEALTH | 3 | FLAMMABILITY | 0 | REACTIVITY | 0 | PERSONAL PROTECTION | J |
| HEALTH | 3 | | | | | | | | |
| FLAMMABILITY | 0 | | | | | | | | |
| REACTIVITY | 0 | | | | | | | | |
| PERSONAL PROTECTION | J | | | | | | | | |

1. Product And Company Identification

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supplier 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 | Manufacturer 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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| Supplier Emergency Contacts & Phone Number Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887 | Manufacturer Emergency Contacts & Phone Number Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887 |
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Issue Date: 05/04/2009

Product Name: Gold (I) Chloride
CAS Number: 10294-29-8
Chemical Family: Group 1B Metal Salts
Chemical Formula: AuCl
MSDS Number: 2011
Product Code: 2011

Synonyms
Gold monochloride

2. Composition/Information On Ingredients

| Ingredient Name | CAS Number | Percent Of Total Weight |
|-------------------|------------|-------------------------|
| Gold (I) Chloride | 10294-29-8 | 98 - 100 |

EMERGENCY OVERVIEW

Corrosive.
Skin sensitizer.

MATERIAL SAFETY DATA SHEET

Gold (I) Chloride

Hazards Identification (Pictograms)



3. Hazards Identification

Primary Routes(s) Of Entry

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

Eye Hazards

Causes burns.

Skin Hazards

Causes skin burns. May be harmful if absorbed through the skin.

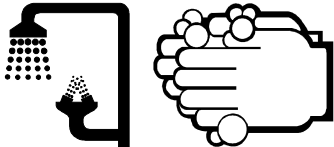
Ingestion Hazards

Causes burns. May be harmful if swallowed.

Inhalation Hazards

Material is extremely destructive to the tissue of the upper respiratory tract and mucous membranes. 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 and keep flushing eyes on the way to the hospital.

Skin

Wash with soap and copious amounts of water. If discomfort occurs or persists, contact a physician immediately. 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. DO NOT induce vomiting. 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

MATERIAL SAFETY DATA SHEET

Gold (I) Chloride

5. Fire Fighting Measures - Continued

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.

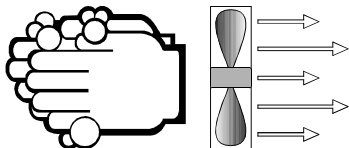
Fire Fighting Instructions

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 reclamimation. 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 and skin. Avoid formation of dust and aerosols. Ensure adequate ventilation.

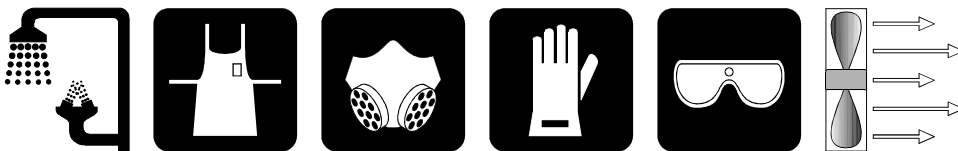
Storage Precautions

Store in a tightly sealed container in a cool, dry well ventilated 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

MATERIAL SAFETY DATA SHEET

Gold (I) Chloride

8. Exposure Controls/Personal Protection - Continued

Respiratory Protection - Continued

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

Dark yellow to orange powder

Chemical Type: Mixture

Physical State: Solid

Melting Point: 552 °F 289 °C

Molecular Weight: 232.42

Vapor Density: 7.57 g/mL @ 25C

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatible Materials

Reducing agents.

Hazardous Decomposition Products

Hydrogen chloride gas.

11. Toxicological Information

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

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

Hazard Class

8

DOT Identification Number

3260

Packaging Requirements

II

MATERIAL SAFETY DATA SHEET

Gold (I) Chloride

14. Transport Information - Continued

Additional Shipping Paper Description

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

ADR - Europe (Pictograms)



15. 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

European Union (EU) Regulatory Information

Symbol of Danger: C

Indication of Danger: Corrosive

R: 34-43

Causes burns. May cause sensitization by skin contact.

S: 26-27-36/37/39-45

In case of contact with eyes rinse immediately with plenty of water and seek medical advice. Take off immediately all contaminated clothing. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

16. Other Information

NFPA Rating

Health: 3

Fire: 0

Reactivity: 0

HMIS Rating

Health: 3

Fire: 0

Reactivity: 0

Personal Protection: J

Revision/Preparer Information

MSDS Preparer: Joseph J. Fittos III

MSDS Preparer Phone Number: 410-398-7200

This MSDS Supersedes A Previous MSDS Dated: 04/29/2009

Disclaimer

In compliance with the OSHA Hazard Communication Standard, 2.9 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) Chloride

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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