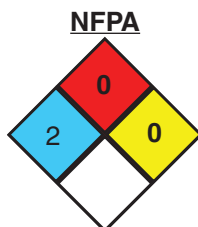


MATERIAL SAFETY DATA SHEET

Gold (III) Chloride



HMIS

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	J

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: 03/31/2011

Product Name: Gold (III) Chloride

Chemical Name: Gold (III) Chloride, Gold Trichloride, Auric Chloride

CAS Number: 13453-07-1

Chemical Family: Group 1B Metal Salts

Chemical Formula: AuCl₃

MSDS Number: 79-516

Product Code: 79-516

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
Gold (III) Chloride	13453-07-1	98-100

EMERGENCY OVERVIEW

Irritant

Hazards Identification (Pictograms)



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Gold (III) Chloride

3. Hazards Identification

Primary Routes(s) Of Entry

Eyes	Likely
Skin	Likely
Inhalation	Likely
Ingestion	Likely

Eye Hazards

Irritation.

Skin Hazards

Irritation. May be harmful if absorbed through the skin.

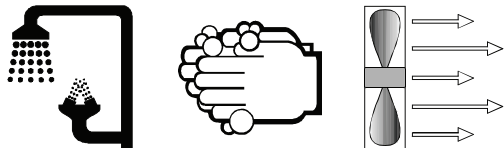
Ingestion Hazards

May be harmful if swallowed.

Inhalation Hazards

Causes respiratory tract irritation. 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.

Skin

Wash with soap and copious amounts of water. If discomfort occurs or persists, contact a physician 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. 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

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.

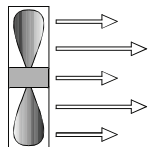
MATERIAL SAFETY DATA SHEET

Gold (III) Chloride

6. Accidental Release Measures

Soak up and place in a sealed container for disposal or reclamation. 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, prolonged or repeated contact with skin. Avoid breathing dust. Avoid formation of dust and aerosols. Ensure adequate ventilation.

Storage Precautions

Store in a tightly sealed container in a cool, dry well ventilated area under inert atmosphere.

Work/Hygienic Practices

Use good personal hygiene after handling.

Light sensitive.

Air and Moisture Sensitive.

Handle and store under inert gas.

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.

Skin Protection

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

MATERIAL SAFETY DATA SHEET

Gold (III) Chloride

8. Exposure Controls/Personal Protection (cont)

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

Red-brown to dark red hygroscopic crystals

Chemical Type: Mixture

Physical State: Solid

Melting Point: 254 (decomposes) °C

Boiling Point: 509 °F 265 °C

Specific Gravity: 3.9

Molecular Weight: 303.33

Solubility: VERY SOLUBLE (68 g/100ml)

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)

Moisture and light.

Incompatible Materials

Ammonia and amines.

Hazardous Decomposition Products

Hydrogen chloride gas

11. Toxicological Information

Reproductive Effects

Toxicity

Rat

Subcutaneous

Paternal effects: Testes, epididymis, sperm duct

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...

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Gold (III) Chloride

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

Considered non-hazardous for transport

Additional Shipping Paper Description

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

ADR - Europe (Pictograms)



15. Regulatory Information

U.S. Regulatory Information

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 Notification

This product does not contain any ingredients regulated under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 or 40 CFR 372.

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: Xi

Indication of Danger: Irritant

R: 36/37/38

Irritating to eyes, respiratory system and skin.

S: 26-36

In case of contact with eyes rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

MATERIAL SAFETY DATA SHEET

Gold (III) Chloride

16. Other Information

NFPA Rating

Health: 2

Fire: 0

Reactivity: 0

HMIS Rating

Health: 2

Fire: 0

Reactivity: 0

Personal Protection: J

Revision/Preparer Information

MSDS Preparer: DF Goldsmith Chemical and Metal

MSDS Preparer Phone Number: 847-869-7800

This MSDS Supersedes A Previous MSDS Dated: 08/15/2003

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

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