

MATERIAL SAFETY DATA SHEET



Sodium Tetrachloroaurate (III) hydrate

Ru
Rh
Pd
Ag
Re
Os
Ir
Pt
Au

<p>NFPA</p>	<p>HMIS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #00b0f0; color: white;">HEALTH</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #ff0000; color: white;">FLAMMABILITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="background-color: #ffff00;">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	1	FLAMMABILITY	0	REACTIVITY	0	PERSONAL PROTECTION	J
HEALTH	1								
FLAMMABILITY	0								
REACTIVITY	0								
PERSONAL PROTECTION	J								

1. Product And Company Identification	
<p>Supplier Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States</p> <p>Company Contact: Wayne Sher Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: wsher@colonialmetals.com Web Site: colonialmetals.com</p>	<p>Manufacturer Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States</p> <p>Company Contact: Wayne Sher Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: wsher@colonialmetals.com Web Site: colonialmetals.com</p>
<p>Supplier Emergency Contacts & Phone Number Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887</p>	<p>Manufacturer Emergency Contacts & Phone Number Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887</p>
<p>Issue Date: 12/30/2010</p> <p>Product Name: Sodium Tetrachloroaurate (III) hydrate CAS Number: 13874-02-7 Chemical Family: Group 1B Metal Salt Chemical Formula: NaAuCl₄ · 2H₂O MSDS Number: 2007 Product Code: 2007</p> <p>Synonyms Gold chloride, Sodium salt hydrate</p>	

2. Composition/Information On Ingredients			
Ingredient Name	CAS Number		Percent Of Total Weight
Sodium Tetrachloroaurate (III) hydrate	13874-02-7		98 - 100

EMERGENCY OVERVIEW
Irritant

Hazards Identification (Pictograms)



3. Hazards Identification

Primary Routes(s) Of Entry

Eyes	Likely
Skin	Likely
Inhalation	Likely

Eye Hazards
Irritating effect.

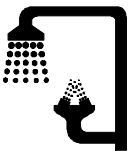
Skin Hazards
Irritating in case of skin contact.

Ingestion Hazards
Hazardous to digestive tract.

Inhalation Hazards
Hazardous to respiratory tract and mucous membranes.

To the best of our knowledge the chemical, physical, and toxicological effects of this compound have not been thoroughly investigated.

First Aid (Pictograms)



4. First Aid Measures

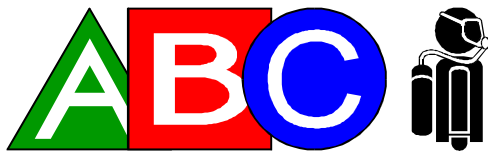
Eye
Flush with copious amounts of water for at least 15 minutes. If discomfort occurs, seek medical attention immediately.

Skin
Immediately wash skin with soap and water and rinse thoroughly. If discomfort occurs or persists, seek medical attention immediately. Wash clothing before reuse. Remove contaminated clothing and shoes and wash before reuse.

Ingestion
Seek medical attention immediately.

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

Fire Fighting (Pictograms)



5. Fire Fighting Measures

Flash Point: NA °C
Flash Point Method: NA
Autoignition Point: NA °C
Flammability Class: non-flammable

Fire And Explosion Hazards

Use proper safety equipment. The following may be released during a fire: hydrogen chloride (HCl).

Extinguishing Media

Use proper extinguishing media to fight surrounding fires.

Fire Fighting Instructions

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

6. Accidental Release Measures

Ensure adequate ventilation. 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 Precautions

Ensure good ventilation in the workplace. Don't breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Keep away from incompatibles such as oxidizing agents.

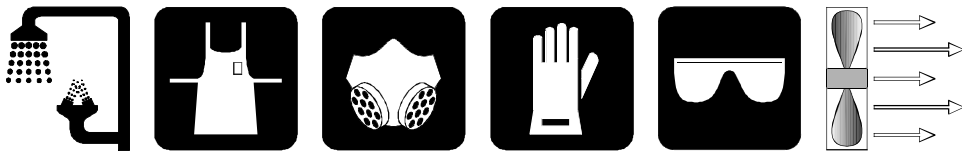
Storage Precautions

Store in a tightly sealed container in a cool, dry, well-ventilated place.

Work/Hygienic Practices

Always 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)

8. Exposure Controls/Personal Protection - Continued**Engineering Controls - Continued**

Safety shower and eyewash

Eye/Face Protection

ANSI approved safety glasses/goggles, full face shield.

Skin Protection

Appropriate 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**

Yellow-orange crystalline solid

Chemical Type: Mixture

Physical State: Solid

Melting Point: decomposes °C

Boiling Point: decomposes °C

Molecular Weight: 361.77 (397.8)

Vapor Pressure: NA

Vapor Density: 0.8 g/cm³ at 20C

Solubility: soluble

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatible Materials

Oxidizing agents, ammonia.

Hazardous Decomposition Products

Hydrogen chloride (HCl), metal oxide fume.

Conditions To Avoid (Polymerization)

Will not occur.

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

11. Toxicological Information

Gold compounds may cause irritation to the eyes and respiratory tract. Aplastic anemia may result from damage to the blood forming organs. Gold has caused tumors and reproductive effects in laboratory animals via implant, intraperitoneal, and subcutaneous routes.

To the best of our knowledge 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**

Not considered hazardous for transportation.

15. Regulatory Information**U.S. Regulatory Information**

All components of this compound are on the TSCA inventory.

European Union (EU) Regulatory Information

Hazard symbol: Xi Irritant

Risk phrases:

36/37 Irritating to eyes and respiratory system

Safety phrases:

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

DSCL - Europe (Pictograms)**16. Other Information****NFPA Rating**

Health: 1

Fire: 0

Reactivity: 0

HMIS Rating

Health: 1

Fire: 0

Reactivity: 0

Personal Protection: J

Revision/Preparer Information

MSDS Preparer: Wayne S. Sher

MSDS Preparer Phone Number: (410)398-7200

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

MATERIAL SAFETY DATA SHEET



Sodium Tetrachloroaurate (III) hydrate

Ru Rh Pd Ag Re Os Ir Pt Au

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.

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