



# MATERIAL SAFETY DATA SHEET

## Sodium Gold Thiosulfate (I) Hydrate

<p><b>NFPA</b></p>	<p><b>HMIS</b></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;">2</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; color: black;">REACTIVITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="background-color: #cccccc;">PERSONAL PROTECTION</td> <td style="text-align: center;">J</td> </tr> </table>	HEALTH	2	FLAMMABILITY	0	REACTIVITY	0	PERSONAL PROTECTION	J
HEALTH	2								
FLAMMABILITY	0								
REACTIVITY	0								
PERSONAL PROTECTION	J								

### 1. Product And Company Identification

<p><b>Supplier</b> Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States</p> <p><b>Company Contact:</b> Wayne Sher <b>Telephone Number:</b> 410-398-7200 <b>FAX Number:</b> 410-398-2918 <b>E-Mail:</b> wsher@colonialmetals.com <b>Web Site:</b> colonialmetals.com</p>	<p><b>Manufacturer</b> Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States</p> <p><b>Company Contact:</b> Wayne Sher <b>Telephone Number:</b> 410-398-7200 <b>FAX Number:</b> 410-398-2918 <b>E-Mail:</b> wsher@colonialmetals.com <b>Web Site:</b> colonialmetals.com</p>
<p><b>Supplier Emergency Contacts &amp; Phone Number</b> Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887</p>	<p><b>Manufacturer Emergency Contacts &amp; Phone Number</b> Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887</p>

**Issue Date:** 02/09/2005

**Product Name:** Sodium Gold Thiosulfate (I) Hydrate  
**Chemical Name:** Sodium Dithiosulfatogold (I), Sodium Gold Thiosulfate, Auric Sodium Thiosulfate  
**CAS Number:** 10233-88-2  
**Chemical Family:** Group 1B Metal Salts  
**Chemical Formula:** Na<sub>3</sub> [Au(S<sub>2</sub>O<sub>3</sub>)<sub>2</sub>] \* 2H<sub>2</sub>O  
**MSDS Number:** 2018  
**Product Code:** 2018

**Synonyms**  
Sodium Dithiosulfatogold (I), Sodium Gold Thiosulfate, Auric Sodium Thiosulfate

### 2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
Sodium Dithiosulfatogold (I)/Sodium Gold Thiosulfate	10233-88-2	93

### EMERGENCY OVERVIEW

To the best of our knowledge the chemical, physical, and toxicological properties have not been thoroughly investigated. Avoid exposure to moist air, elevated temperatures, and sunlight. Product incompatible with halogens, acids, lead, silver, and mercury salts. Can decompose toxic fumes of sulfur oxides.



# MATERIAL SAFETY DATA SHEET

## Sodium Gold Thiosulfate (I) Hydrate

### Hazards Identification (Pictograms)



### 3. Hazards Identification

#### Primary Routes(s) Of Entry

**Eyes:** Likely  
**Inhalation:** Likely  
**Ingestion:** Likely  
**Absorption:** Likely

#### Eye Hazards

Causes eye irritation.

#### Skin Hazards

Causes skin irritation.

#### Ingestion Hazards

Irritation, nausea and diarrhea. Does not cause serious toxic manifestations.

#### Inhalation Hazards

May cause respiratory tract irritation.

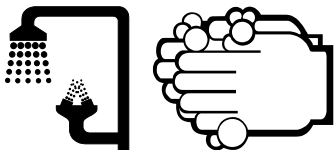
#### Conditions Aggravated By Exposure

May cause irritation of the respiratory system. Maintain housekeeping and personal hygiene to minimize exposure and prevent sensitization.

#### Conditions Aggravated By Overexposure

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

### First Aid (Pictograms)



### 4. First Aid Measures

#### Eye

Flush for 15 minutes with plenty of water. If discomfort occurs or persists, contact a physician.

#### Skin

Flush area for 15 minutes with water and wash with soap and water. If discomfort occurs or persists, contact a physician. Remove contaminated clothing and shoes and wash before reuse.

#### Ingestion

Not expected to be a problem in industry. However if swallowed and discomfort occurs, contact a physician.



# MATERIAL SAFETY DATA SHEET

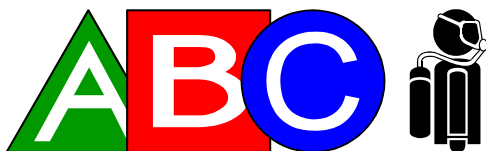
## Sodium Gold Thiosulfate (I) Hydrate

### 4. First Aid Measures - Continued

#### Inhalation

Remove to fresh air immediately. If discomfort occurs or persists, contact a physician.

### Fire Fighting (Pictograms)



### 5. Fire Fighting Measures

**Flash Point Method:** NA

**Flammability Class:** NA

#### Fire And Explosion Hazards

Use proper equipment. Can decompose to emit toxic fumes of sulfur oxides.

#### Extinguishing Media

Use water spray, foam, carbon dioxide or medium to fight primary source.

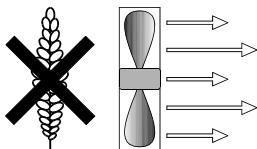
#### Fire Fighting Instructions

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

### 6. Accidental Release Measures

Soak up and place in sealed container for disposal or reclamation. Person protected with full face shield and approved respirator and cartridge for chlorine vapor and dust. Ventilate area and wash spill site after pick up is completed.

### Handling & Storage (Pictograms)



### 7. Handling And Storage

#### Handling And Storage Precautions

Avoid breathing dust. Avoid contact with eyes, prolonged or repeated contact with skin. Use compatible chemical resistant gloves. Wash hands thoroughly after handling.

#### Handling Precautions

Avoid breathing dust or solution spray. Avoid contact with eyes. Avoid contact with skin and clothing. Wash thoroughly after handling.

#### Storage Precautions

Do not store directly on ground. Store in a dry place.

#### Work/Hygienic Practices

Use good personal hygiene. Wash thoroughly after handling. Wash thoroughly with soap and water 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



# MATERIAL SAFETY DATA SHEET

## Sodium Gold Thiosulfate (I) Hydrate

### 7. Handling And Storage - Continued

#### Work/Hygienic Practices - Continued

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)

#### Eye/Face Protection

ANSI approved safety glasses/goggles

#### Skin Protection

Rubber/Neoprene (use compatible chemical-resistant gloves).

#### Respiratory Protection

Chemical cartridge respirator for dust/mist/fume/radionuclide 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 hygiene facilities for washing.

### 9. Physical And Chemical Properties

#### Appearance

White to off-white crystals/powder

#### Odor

Slight odor of sulfur

**Chemical Type:** Mixture

**Physical State:** Solid

**Melting Point:** Decomposes °C

**Boiling Point:** NA °C

**Specific Gravity:** 3.09

**Molecular Weight:** 530.2

**Vapor Pressure:** NA

**Vapor Density:** NA

**pH Factor:** NA

**Solubility:** 50 g/100 ml

**Evaporation Rate:** NA



# MATERIAL SAFETY DATA SHEET

## Sodium Gold Thiosulfate (I) Hydrate

### 10. Stability And Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

**Conditions To Avoid (Stability)**

Moist air, elevated temperature, and sunlight.

**Incompatible Materials**

Halogens, acids, lead, silver, and mercury salts

**Hazardous Decomposition Products**

Toxic fumes of sulfur oxides.

### 11. Toxicological Information

No Data Available...

### 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 liquid, n.o.s.

**Hazard Class**

8

**Secondary Hazard Class**

NA

**DOT Identification Number**

1760

**DOT Shipping Label**

Corrosive liquid, n.o.s.

**Freight Class**

See 49 CFR

**Packaging Exceptions**

See 49 CFR

**Packaging Requirements**

See 49 CFR

**Additional Shipping Paper Description**

IATA: Same as DOT regulations. Review current IATA regulations before shipping.



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## Sodium Gold Thiosulfate (I) Hydrate

### DOT (Pictograms)



### ADR - Europe (Pictograms)



### TDG - Canada (Pictograms)



## 15. Regulatory Information

### U.S. Regulatory Information

This chemical is not TSCA listed.

### 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.

### European Union (EU) Regulatory Information

**Symbol of Danger:** C

**Indication of Danger:** Corrosive

**R:** 34, 36, 37

**Risk Statements:** Causes burns, Irritating to eyes, Irritating to respiratory system.

**S:** 17 26 27 36/37 39 45

**Safety Statements:** Keep away from combustible material. 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.

### WHMIS - Canada (Pictograms)



## 16. Other Information

No Data Available...



# MATERIAL SAFETY DATA SHEET

## Sodium Gold Thiosulfate (I) Hydrate

### 16. Other Information - Continued

#### NFPA Rating

Health: 2

Fire: 0

Reactivity: 0

Other: COR

#### HMIS Rating

Health: 2

Fire: 0

Reactivity: 0

Personal Protection: J

#### Revision/Preparer Information

MSDS Preparer: Wayne Sher

MSDS Preparer Phone Number: 410-398-7200

This MSDS Supersedes A Previous MSDS Dated: 03/15/1998

### Disclaimer

In compliance with the OSHA Hazard Communication Standard, 2.9 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.

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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