


# MATERIAL SAFETY DATA SHEET

## Chlorotriphenylphosphine Gold (I)

<b>NFPA</b>	<b>HMIS</b>								
	<table border="1"><tr><td>HEALTH</td><td style="text-align: center;">2</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	2	FLAMMABILITY	0	REACTIVITY	0	PERSONAL PROTECTION	J
HEALTH	2								
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

**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

**Issue Date:** 11/03/2008

**Product Name:** Chlorotriphenylphosphine Gold (I)

**CAS Number:** 14243-64-2

**Chemical Family:** Group 1B Metal Salt

**Chemical Formula:** C<sub>18</sub>H<sub>15</sub>PClAu

**MSDS Number:** 2023

**Product Code:** 2023

**Synonyms**

Chloro(triphenylphosphine) gold (I)

### 2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
Chlorotriphenylphosphine gold (I)	14243-64-2	0 - 99

### EMERGENCY OVERVIEW

**Irritant.**

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

# MATERIAL SAFETY DATA SHEET

## Chlorotriphenylphosphine Gold (I)

### Hazards Identification (Pictograms)



### 3. Hazards Identification

#### Primary Routes(s) Of Entry

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

#### Eye Hazards

Irritation.

#### Skin Hazards

Irritation. May be harmful if absorbed through the skin.

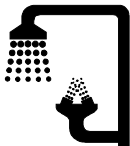
#### Ingestion Hazards

May be harmful if swallowed.

#### Inhalation Hazards

May be harmful if inhaled. Irritating to respiratory tract and mucous membranes.

### First Aid (Pictograms)



### 4. First Aid Measures

#### Eye

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

#### Skin

Immediately wash with soap and copious amounts of water and rinse thoroughly. If discomfort occurs or persists, contact a physician immediately. Remove contaminated clothing and shoes and wash before reuse.

#### Ingestion

If swallowed wash out mouth with water provided the victim is conscious. Never give anything by mouth to an unconscious person. Contact a physician immediately.

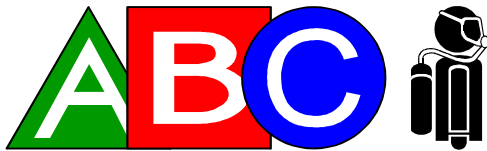
#### Inhalation

Remove to fresh air immediately. If victim is not breathing provide artificial respiration. If breathing is difficult give oxygen. Contact a physician immediately.

# MATERIAL SAFETY DATA SHEET

## Chlorotriphenylphosphine Gold (I)

### Fire Fighting (Pictograms)



### 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 under fire conditions.

#### Extinguishing Media

Use water spray, appropriate foam, dry chemical powder, carbon dioxide.

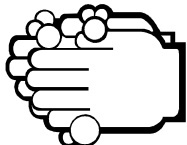
#### Fire Fighting Instructions

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

### 6. Accidental Release Measures

Sweep up and place in a sealed container. Avoid raising dust. Ventilate and wash spill site after pick up is completed. Person protected with full face shield and proper respirator for dust/mist/fume, rubber/neoprene gloves and rubber apron.

### Handling & Storage (Pictograms)



### 7. Handling And Storage

#### Handling And Storage Precautions

#### Handling Precautions

Avoid contact and inhalation. Do not get into eyes, on skin or clothing. Handle under nitrogen.

#### Storage Precautions

Keep in a tightly sealed container in a cool dry place under nitrogen.

#### Work/Hygienic Practices

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

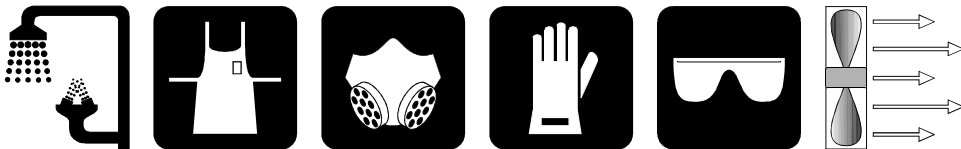
#### Other Precautions

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 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.

# MATERIAL SAFETY DATA SHEET

## Chlorotriphenylphosphine Gold (I)

### 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 with corrosive-resistant materials

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 acid gas/chlorine (42 CFR part 84) and 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

Colorless Solid

#### Odor Threshold

**Chemical Type:** Mixture

**Physical State:** Solid

**Melting Point:** NA °C

**Boiling Point:** NA °C

**Molecular Weight:** 494.72

### 10. Stability And Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

#### Conditions To Avoid (Stability)

#### Incompatible Materials

Strong oxidizing agents.

# MATERIAL SAFETY DATA SHEET

## Chlorotriphenylphosphine Gold (I)

### 10. Stability And Reactivity - Continued

#### **Hazardous Decomposition Products**

Carbon monoxide, carbon dioxide, hydrogen chloride gas. Thermal decomposition may produce toxic fumes of phosphorus oxides and/ or phosphine.

#### **Conditions To Avoid (Polymerization)**

Will not occur.

### 11. Toxicological Information

#### **Eye Effects**

#### **Chronic/Carcinogenicity**

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**

None. Considered non-hazardous for transport.

#### **Additional Shipping Paper Description**

Same as 49 CFR (DOT) regulation. Refer to IATA regulations for further shipping regulations.

### 15. Regulatory Information

#### **SARA Section 313 Notification**

#### **Canadian Regulatory Information**

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

DSL: No

NDSL: No

#### **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

# MATERIAL SAFETY DATA SHEET

## Chlorotriphenylphosphine Gold (I)

### 15. Regulatory Information - Continued

#### European Union (EU) Regulatory Information - Continued

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: 2

Fire: 0

Reactivity: 0

#### HMIS Rating

Health: 2

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 Supercedes A Previous MSDS Dated: 10/01/2008

#### 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.

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.