


# MATERIAL SAFETY DATA SHEET

## Dihydrogen Hexahydroxyplatinum (IV)

<b>NFPA</b> 	<b>HMIS</b> <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

<b>Supplier</b> 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	<b>Manufacturer</b> 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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<b>Supplier Emergency Contacts &amp; Phone Number</b> Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887	<b>Manufacturer Emergency Contacts &amp; Phone Number</b> Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887
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**Issue Date:** 03/16/2009

**Product Name:** Dihydrogen Hexahydroxyplatinum (IV)  
**CAS Number:** 51850-20-5  
**Chemical Family:** Inorganic Compound  
**Chemical Formula:** H<sub>2</sub>Pt(OH)<sub>6</sub>  
**MSDS Number:** 6018  
**Product Code:** 6018

**Synonyms**  
Dihydrogen Hexahydroxyplatinum (IV)

### 2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
Dihydrogen Hexahydroxyplatinum (IV)	51850-20-5	0 - 99

### EMERGENCY OVERVIEW

**Harmful.**

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

### 3. Hazards Identification

**Primary Routes(s) Of Entry**

Eyes: Likely  
Inhalation: Likely  
Skin: Likely

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## Dihydrogen Hexahydroxyplatinum (IV)

### 3. Hazards Identification - Continued

#### Primary Routes(s) Of Entry - Continued

Ingestion: Likely

#### Eye Hazards

Causes eye irritation.

#### Skin Hazards

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

#### Ingestion Hazards

May be harmful if swallowed.

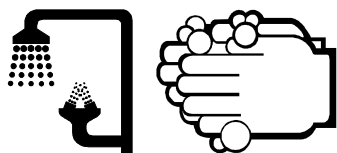
#### Inhalation Hazards

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

#### Conditions Aggravated By Exposure

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

#### 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

Immediately 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.

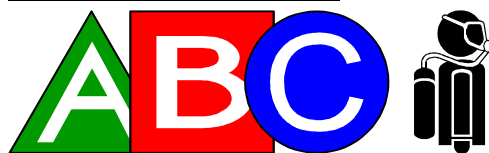
#### Ingestion

Wash out mouth with water provided the victim is conscious. Never give anything by mouth to an unconscious person. Seek medical attention 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.

#### Fire Fighting (Pictograms)



### 5. Fire Fighting Measures

Flash Point: NA °C

Autoignition Point: NA °C

Flammability Class: NA

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### 5. Fire Fighting Measures - Continued

#### **Fire And Explosion Hazards**

Emits toxic fumes under fire conditions.

#### **Extinguishing Media**

Water spray, carbon dioxide, dry chemical powder or appropriate foam.

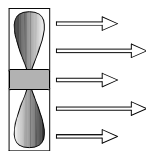
#### **Fire Fighting Instructions**

Firefighting should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus with full protective clothing.

### 6. Accidental Release Measures

Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Ventilate area and wash spill site after clean up is complete.

### Handling & Storage (Pictograms)



### 7. Handling And Storage

#### **Handling And Storage Precautions**

#### **Handling Precautions**

Do not breathe dust. Avoid contact with eyes, skin and clothing. Use with adequate ventilation.

#### **Storage Precautions**

Store in a tightly sealed container in a cool, dry place under nitrogen.

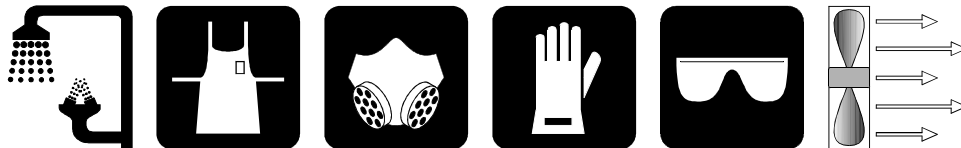
#### **Work/Hygienic Practices**

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

#### **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

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### 8. Exposure Controls/Personal Protection - Continued

#### Engineering Controls - Continued

Other: of material below TLV/TWA levels  
Closed ventilation system (Laboratory fume hood)

Safety shower and eyewash

#### Eye/Face Protection

ANSI approved safety glasses/goggles

#### Skin Protection

Rubber/Neoprene (use compatible chemical-resistant gloves)

#### Respiratory Protection

NIOSH approved chemical cartridge respiratory for particulates and dust 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

Yellow powder

**Chemical Type:** Mixture

**Physical State:** Solid

**Molecular Weight:** 299.15

**Solubility:** Soluble

### 10. Stability And Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

#### Conditions To Avoid (Stability)

Moisture.

#### Incompatible Materials

Strong oxidizing agents.

#### Hazardous Decomposition Products

Nature of decomposition products is not known.

### 11. Toxicological Information

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.

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### 14. Transport Information

#### Proper Shipping Name

Non-Hazardous

#### Additional Shipping Paper Description

IATA: Same as DOT 49CFR. Consult IATA regulation before shipping.

### 15. Regulatory Information

#### U.S. Regulatory Information

This product is not TSCA listed. For R & D purpose only.

#### Canadian Regulatory Information

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

DSL: No

NDSL: No

#### European Union (EU) Regulatory Information

Symbol of Danger: Xn

Indication of Danger: Harmful

R: 20-36/37/38

Risk Statements: Harmful by inhalation. Irritating to eyes, respiratory system and skin.

S: 22-26-36/37/39-38

Safety statements: Do not breathe dust. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of insufficient ventilation, wear suitable respiratory equipment.

#### Other International Regulations

#### DSCL - Europe (Pictograms)



### 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: 01/12/2004

# **MATERIAL SAFETY DATA SHEET**

## **Dihydrogen Hexahydroxyplatinum (IV)**

### **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.

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