


# MATERIAL SAFETY DATA SHEET

## Platinum

<b>NFPA</b> 	<b>HMIS</b> <table border="1"><tr><td>HEALTH</td><td>1</td></tr><tr><td>FLAMMABILITY</td><td>0</td></tr><tr><td>REACTIVITY</td><td>0</td></tr><tr><td>PERSONAL PROTECTION</td><td>B</td></tr></table>	HEALTH	1	FLAMMABILITY	0	REACTIVITY	0	PERSONAL PROTECTION	B
HEALTH	1								
FLAMMABILITY	0								
REACTIVITY	0								
PERSONAL PROTECTION	B								

### 1. Product And Company Identification

**Supplier**

Colonial Metals, Inc.  
Building 20  
505 Blue Ball Road  
Elkton, MD 21921 United States

Company Contact: Wayne Sher  
Telephone Number: 410-398-7200  
FAX Number: 410-398-2918  
E-Mail: wsher@colonialmetals.com  
Web Site: colonialmetals.com

**Manufacturer**

Colonial Metals, Inc.  
Building 20  
505 Blue Ball Road  
Elkton, MD 21921 United States

Company Contact: Wayne Sher  
Telephone Number: 410-398-7200  
FAX Number: 410-398-2918  
E-Mail: wsher@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: 07/19/2010

Product Name: Platinum

Chemical Name: Platinum Metal, Platinum Powder, Platinum Flake, Platinum Black

CAS Number: 7440-06-4

Chemical Family: Platinum Group Metals

Chemical Formula: Pt

MSDS Number: 6000

Product Code: 6000

### 2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
Platinum	7440-06-4	99.9

### EMERGENCY OVERVIEW

To the best of our knowledge the chemical, physical, and toxicological properties have not been thoroughly investigated. Avoid temperatures above 1500oC. Product incompatible with organic solvents.

### Hazards Identification (Pictograms)



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### 3. Hazards Identification

#### Primary Routes(s) Of Entry

Eyes: Likely  
Inhalation: Likely  
Skin: Likely  
Ingestion: Likely

#### Eye Hazards

Irritation due to the particulate nature of the material.

#### Skin Hazards

Irritation due to the particulate nature of the material.

#### Ingestion Hazards

Irritation due to the particulate nature of the material.

#### Inhalation Hazards

Coughing, shortness of breath or wheezing.

#### 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, 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.

#### 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

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### 5. Fire Fighting Measures - Continued

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

Finely divided platinum may ignite if contacted with flammable organic solvents. Powders may be subjected to self-heating if hydrogen or carbon monoxide are occluded.

#### **Extinguishing Media**

Use water spray, foam, dry chemical, carbon dioxide, or medium for primary source.

#### **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 taking care to avoid dusting, Person protected with full face shield and proper respirator for dust and particulates. Ventilate area and wash spill site after pickup is complete.

### 7. Handling And Storage

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

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

#### **Handling Precautions**

Avoid contact with eyes.  
Avoid contact with skin and clothing.  
Avoid creating dust.

#### **Storage Precautions**

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 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

#### **Eye/Face Protection**

ANSI approved safety glasses/goggles.

#### **Skin Protection**

Rubber/Neoprene (use compatible chemical-resistant gloves)

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

#### Respiratory Protection

NIOSH approved chemical cartridge respiratory 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

Silver-gray, lustrous, malleable, and ductile

#### Odor

slight process odor

**Chemical Type:** Pure

**Physical State:** Solid

**Melting Point:** 17720 °C

**Boiling Point:** 38270 °C

**Specific Gravity:** 21.45

**Molecular Weight:** 195.1

**Vapor Pressure:** NA

**Vapor Density:** NA

**pH Factor:** NA

**Solubility:** Insoluble

**Evaporation Rate:** NA

### 10. Stability And Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

#### Conditions To Avoid (Stability)

Temperatures above 15000oC

#### Incompatible Materials

Organic solvents

#### Hazardous Decomposition Products

None

### 11. Toxicological Information

The TDL for RAT implant is 5250 mg/kg; For implant in mice, the TDL is 23000 mg/kg platinum in this form is practically nontoxic. Platinum in this form is non-allergenic but ionic platinum halogen complexes are allergenic.

### 12. Ecological Information

No Data Available...

### 13. Disposal Considerations

Place in sealed container. 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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### 13. Disposal Considerations - Continued

#### RCRA Information

NL

### 14. Transport Information

#### Proper Shipping Name

Non-hazardous

### 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

All ingredients of this product comply with the New Substances Notification requirements of the Canadian Environmental Protection Act (CEPA).

#### European Union (EU) Regulatory Information

R36/37/38 - Irritating to eyes, respiratory system and skin

S24/25 - Avoid contact with skin and eyes

#### DSCL - Europe (Pictograms)



### 16. Other Information

#### NFPA Rating

Health: 1

Fire: 0

Reactivity: 0

#### HMIS Rating

Health: 1

Fire: 0

Reactivity: 0

Personal Protection: B

#### Revision/Preparer Information

MSDS Preparer: Wayne Sher

MSDS Preparer Phone Number: 410-398-7200

This MSDS Supersedes A Previous MSDS Dated: 05/12/2003

#### 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.

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### **Disclaimer - Continued**

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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