


MATERIAL SAFETY DATA SHEET

Platinum

NFPA	HMIS								
	<table border="1"><tr><td>HEALTH</td><td style="text-align: center;">1</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;">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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