

# Platinum (Methylcyclopentadienyl [Trimethyl] Platinum) MSDS



## MATERIAL SAFETY DATA SHEET

### Platinum Deposition

<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								
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#### 1. Product And Company Identification

<b>Supplier</b> Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States  <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	<b>Manufacturer</b> Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States  <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
<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

**Issue Date:** 08/18/2005

**Product Name:** Platinum Deposition

**Chemical Name:** Trimethyl [(1,2,3,4,5-ETA.)-1 Methyl 2, 4-Cyclopentadien-1-YL] Platinum

**CAS Number:** 94442-22-5

**Chemical Family:** Platinum Group Metal Organometallic Complex

**Chemical Formula:** C<sub>9</sub>H<sub>16</sub>Pt

**MSDS Number:** 80

**Product Code:** 0080

#### Synonyms

Trimethyl [(1,2,3,4,5-ETA.)-1 Methyl 2, 4-Cyclopentadien-1-YL] Platinum, Platinum Deposition

#### 2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
Methylcyclopentadienyl (Trimethyl) Platinum	094442-22-2	100

#### EMERGENCY OVERVIEW

To the best of our knowledge the chemical, physical, and toxicological properties have not been thoroughly investigated. Avoid air. Product incompatible with oxidizing agents and air. Can decompose toxic fumes of CO<sub>x</sub> and metal oxide.



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### 3. Hazards Identification

**Primary Routes(s) Of Entry**

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

**Eye Hazards**

May cause eye irritation.

**Skin Hazards**

May cause mild to moderate skin irritation.

**Inhalation Hazards**

Coughing, shortness of breath, wheezing.

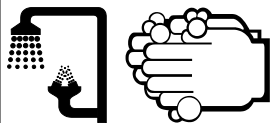
**Conditions Aggravated By Exposure**

Any respiratory condition such as asthma. Maintain housekeeping and personal hygiene to minimize exposure and prevent sensitization. Platinum salts can cause a condition called Platnosis, effecting respiratory system.

**Conditions Aggravated By Overexposure**

May result in pulmonary fibrosis. 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.

**Ingestion**

If swallowed, contact a physician immediately. Do not give activated charcoal before or with syrup of ipecac. If swallowed, do not induce vomiting unless directed...

**Inhalation**

Remove to fresh air immediately. If discomfort occurs or persists, contact a physician. If not breathing, give artificial respiration.



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## Platinum Deposition

### Fire Fighting (Pictograms)



### 5. Fire Fighting Measures

**Flash Point:** Non-flammable °F

**Flash Point Method:** NA

**Flammability Class:** NA

#### Fire And Explosion Hazards

Use proper safety equipment. Can decompose to emit toxic, irritating fumes of carbon monoxide, carbon dioxide and metal oxide.

#### Extinguishing Media

Dry chemical powder, carbon dioxide, or sand.

#### Fire Fighting Instructions

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

### 6. Accidental Release Measures

Pick up mechanically, caution air sensitive and place in sealed container for reclamation or disposal. Person protected with full face shield and NIOSH approved respirator and cartridge for dust. Ventilate area and wash spill site after pick-up is complete.

### Handling & Storage (Pictograms)



### 7. Handling And Storage

#### Handling And Storage Precautions

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 vapor. Avoid contact with skin and clothing.

#### Storage Precautions

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

#### 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.



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## Platinum Deposition

**7. Handling And Storage - Continued**

**Work/Hygienic Practices - Continued**

Store in sealed container, plastic or plastic liners, in a cool, well ventilated, dry area away from air. Store under inert gas.

**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).

**Respiratory Protection**

NIOSH approved chemical cartridge respirator 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.

**Ingredient(s) - Exposure Limits**

- Methylcyclopentadienyl (Trimethyl) Platinum
- Platinum Only::
- NIOSH Exposure Limits: 0.002 mg/m<sup>3</sup>
- OSHA: TWA 1 mg/m<sup>3</sup>
- ACGIH: 0.002 mg/m<sup>3</sup>

**9. Physical And Chemical Properties**

**Appearance**

Off-white powder

**Odor**

None

**Chemical Type:** Mixture

**Physical State:** Solid

**Melting Point:** 30-31 °C

**Boiling Point:** Sublimes °C



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<b>9. Physical And Chemical Properties - Continued</b> <u>Odor - Continued</u> <b>Specific Gravity:</b> NE <b>Molecular Weight:</b> 319.34 <b>Vapor Pressure:</b> 0.053 mmHg <b>Vapor Density:</b> NE <b>pH Factor:</b> NA <b>Solubility:</b> Insoluble <b>Evaporation Rate:</b> NE
<b>10. Stability And Reactivity</b> <b>Stability:</b> Stable <b>Hazardous Polymerization:</b> Will not occur <u>Conditions To Avoid (Stability)</u> Air (store under inert gas) <u>Incompatible Materials</u> Mixing with oxidizing agents and air <u>Hazardous Decomposition Products</u> Toxic fumes of COx and metal oxide
<b>11. Toxicological Information</b> No Data Available...
<b>12. Ecological Information</b> No Data Available...
<b>13. Disposal Considerations</b> 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. <u>RCRA Information</u> NL
<b>14. Transport Information</b> <u>Proper Shipping Name</u> Non-Hazardous <u>Additional Shipping Paper Description</u> IATA Regulations: Non-Hazardous
<b>15. Regulatory Information</b> <u>U.S. Regulatory Information</u> TSCA: Yes <u>Canadian Regulatory Information</u> This product has been classified in accordance with the hazard criteria of CPR, and the MSDS contains all the information required by the CPR.



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<b>15. Regulatory Information - Continued</b>
<p style="color: red; margin: 0;"><u>European Union (EU) Regulatory Information</u></p> <p style="font-size: small; margin: 0;">Information not available.</p>
<b>16. Other Information</b>
<p style="color: red; margin: 0;"><u>NFPA Rating</u></p> <p style="margin: 0;">Health: 2 Fire: 0 Reactivity: 0</p> <p style="color: red; margin: 0;"><u>HMS Rating</u></p> <p style="margin: 0;">Health: 2 Fire: 0 Reactivity: 0 Personal Protection: J</p> <p style="color: red; margin: 0;"><u>Revision/Preparer Information</u></p> <p style="margin: 0;">MSDS Preparer: Wayne Sher MSDS Preparer Phone Number: 410-398-7200 This MSDS Supersedes A Previous MSDS Dated: 02/25/2002</p>
<b>Disclaimer</b>
<p>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.</p> <p>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.</p> <p>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.</p> <p>Colonial Metals, Inc.</p>

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