

MATERIAL SAFETY DATA SHEET



Platinum (IV) Chloride

Ru
Rh
Pd
Ag
Re
Os
Ir
Pt
Au

<p>NFPA</p>	<p>HMIS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #00b0f0; color: white;">HEALTH</td> <td style="text-align: center;">02</td> </tr> <tr> <td style="background-color: #ff0000; color: white;">FLAMMABILITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="background-color: #ffff00; color: black;">REACTIVITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="background-color: #cccccc;">PERSONAL PROTECTION</td> <td style="text-align: center;">C</td> </tr> </table>	HEALTH	02	FLAMMABILITY	0	REACTIVITY	0	PERSONAL PROTECTION	C
HEALTH	02								
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PERSONAL PROTECTION	C								

1. Product And Company Identification

<p>Supplier Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States</p> <p>Company Contact: Wayne Sher Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: wsher@colonialmetals.com Web Site: colonialmetals.com</p>	<p>Manufacturer Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States</p> <p>Company Contact: Wayne Sher Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: wsher@colonialmetals.com Web Site: colonialmetals.com</p>
<p>Supplier Emergency Contacts & Phone Number Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887</p>	<p>Manufacturer Emergency Contacts & Phone Number Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887</p>

Issue Date: 10/14/2010

Product Name: Platinum (IV) Chloride
Chemical Name: Platinic Chloride, Tetrachloroplatinum, Platinum Tetrachloride
CAS Number: 13454-96-1
Chemical Family: Metal Halide
Chemical Formula: PtCl₄
MSDS Number: 6004
Product Code: 6004

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	>	Percent Of Total Weight
Platinum (IV) Chloride	13454-96-1	>	99

EMERGENCY OVERVIEW

Exposure to platinum salts has been shown to cause wheezing, coughing, shortness of breath and running of the nose. Harmful if swallowed. Cause burns. Skin contact can lead to dermatitis.

Hazards Identification (Pictograms)**3. Hazards Identification****Primary Routes(s) Of Entry**

Ingestion
Skin Contact
Inhalation of dust

Eye Hazards

Causes eye irritation.

Skin Hazards

Dermatitis, sensitization and lymphocytosis; After contact skin may discolor but the discoloration will disappear

Ingestion Hazards

Irritation, coughing, burning pain in the mouth, throat, stomach, thorax

Inhalation Hazards

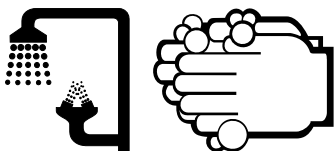
Coughing, shortness of breath or wheezing

Conditions Aggravated By Exposure

Any respiratory conditions such as asthma. Maintain housekeeping and personal hygiene to minimize exposure and prevent sensitization.

Conditions Aggravated By Overexposure

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. 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.



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Fire Fighting (Pictograms)



5. Fire Fighting Measures

Flash Point Method: NA

Flammability Class: NA

Fire And Explosion Hazards

No unusual fire or explosion hazards.

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. If involved in a fire this material may emit toxic fumes of chlorine gas and hydrogen chloride.

6. Accidental Release Measures

Soak up and place in sealed container. Person protected with full face shield and proper respirator for chlorine vapor and dust. 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 breathing dust or vapor.

Storage Precautions

Store in a dry place.

Work/Hygienic Practices

Wash thoroughly with soap and water after handling.

Protective Clothing (Pictograms)



8. Exposure Controls/Personal Protection

Engineering Controls

Use with adequate general and local exhaust ventilation.

Eye/Face Protection

ANSI approved safety glasses/goggles

Platinum (IV) Chloride**Ru Rh Pd Ag Re Os Ir Pt Au****8. Exposure Controls/Personal Protection - Continued****Skin Protection**

Rubber/Neoprene (use compatible chemical-resistant gloves).

Respiratory Protection

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.

Ingredient(s) - Exposure LimitsPlatinum (IV) Chloride
Title Compound - 0.002 mg/m³ - ACGIH (TWA)
0.002 mg/m³ - OSHA (PEL)**9. Physical And Chemical Properties****Appearance**

Red-brown very hygroscopic crystals

Odor

Odorless

Chemical Type: Mixture**Physical State:** Solid**Melting Point:** 370 (decomposes) °C**Boiling Point:** NA °C**Specific Gravity:** 4.303**Molecular Weight:** 336.90**Vapor Pressure:** NA**Vapor Density:** NA**pH Factor:** NA**Solubility:** Insoluble in water**Evaporation Rate:** NA**10. Stability And Reactivity****Stability:** Stable**Hazardous Polymerization:** Will not occur**Conditions To Avoid (Stability)**

Contact with moisture. Moisture sensitive.

Incompatible Materials

Oxidizing agents and active metals.

Hazardous Decomposition Products

Chloroplatinic Acid, platinum dichloride, hydrogen chloride, chlorine.

Conditions To Avoid (Polymerization)

No hazardous polymerization.

Ru Rh Pd Ag Re Os Ir Pt Au**11. Toxicological Information**

No Data Available...

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.

14. Transport Information**Proper Shipping Name**

Corrosive solid, Acidic, Inorganic, N.O.S.

Hazard Class

8

Secondary Hazard Class

N/A

DOT Identification Number

3260

DOT Shipping Label

Corrosive

Freight Class

N/S

Packaging Exceptions

N/A

Packaging Requirements

III

DOT (Pictograms)**TDG - Canada (Pictograms)**

15. Regulatory Information**U.S. Regulatory Information**

TSCA: Listed in TSCA 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
S22 - Do not breathe dust

WHMIS - Canada (Pictograms)**DSCL - Europe (Pictograms)****16. Other Information****NFPA Rating**

Health: 2

Fire: 0

Reactivity: 0

Other: COR

HMIS Rating

Health: 02

Fire: 0

Reactivity: 0

Personal Protection: C

Revision/Preparer Information

MSDS Preparer: Wayne Sher

MSDS Preparer Phone Number: 410-398-7200

This MSDS Supersedes A Previous MSDS Dated: 03/15/1998

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

MATERIAL SAFETY DATA SHEET



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Disclaimer - Continued

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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