



MATERIAL SAFETY DATA SHEET

Ammonium Tetrachloroplatinate (II)

<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;">1</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;">REACTIVITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td style="text-align: center;">C</td> </tr> </table>	HEALTH	1	FLAMMABILITY	0	REACTIVITY	0	PERSONAL PROTECTION	C
HEALTH	1								
FLAMMABILITY	0								
REACTIVITY	0								
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: 08/04/2005

Product Name: Ammonium Tetrachloroplatinate (II)
Chemical Name: Ammonium Tetrachloroplatinate (II), Chloroammoniumplatinatate, Ammonium platinous chloride
CAS Number: 13820-41-2
Chemical Family: Platinum Group Metals Salts
Chemical Formula: (NH₄)₂Pt.Cl₄
MSDS Number: 6009
Product Code: 6009

Synonyms
Tetramine Platinum Chloride II

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
Ammonium Tetrachloroplatinate (II)	13820-41-2	0 - 99.9

EMERGENCY OVERVIEW

Appearance: gold-brown crystals. **Caution!** The toxicological properties of this material have not been fully investigated. May cause eye and skin irritation. May cause respiratory and digestive tract irritation.
Target Organs: Respiratory system, eyes, skin.



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EMERGENCY OVERVIEW - Continued

3. Hazards Identification

Primary Routes(s) Of Entry

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

Eye Hazards

May cause eye irritation. The toxicological properties of this material have not been fully investigated.

Skin Hazards

May cause skin irritation. The toxicological properties of this material have not been fully investigated.

Ingestion Hazards

May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation Hazards

May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

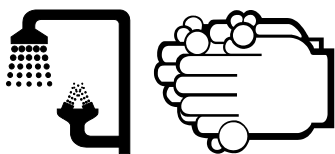
Conditions Aggravated By Exposure

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, 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.



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4. First Aid Measures - Continued

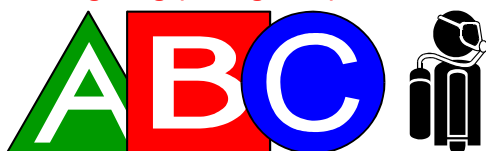
Ingestion

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. Call a physician or a poison control center immediately.

Inhalation

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Fire Fighting (Pictograms)



5. Fire Fighting Measures

Flash Point Method: NA

Flammability Class: NA

Fire And Explosion Hazards

Use proper safety equipment. Can decompose to emit toxic chlorine and ammonia vapor.

Extinguishing Media

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

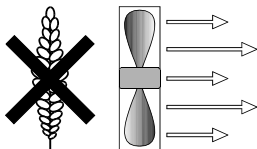
Fire Fighting Instructions

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

6. Accidental Release Measures

Sweep up or soak up and place in sealed container taking care to avoid dusting. Person protected with full face shield and proper respirator for acid gas and particulates. Ventilate area and wash spill site after pickup is complete.

Handling & Storage (Pictograms)



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



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7. Handling And Storage - Continued

Storage Precautions

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

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 (Laboratory fume hood)

Eye/Face Protection

ANSI approved safety glasses/goggles, full face shield.

Skin Protection

Rubber/Neoprene (use compatible chemical-resistant gloves)

Respiratory Protection

NIOSH approved chemical cartridge respirator for acid gas 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

Red powder

Odor

Odorless

Chemical Type: Mixture

Physical State: Solid

Melting Point: 145 (decomposes) °C



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9. Physical And Chemical Properties - Continued <u>Odor - Continued</u> Boiling Point: NA °C Specific Gravity: 2.9360 g/cm ³ Molecular Weight: 372.98 Vapor Pressure: NA Vapor Density: NA pH Factor: NA Solubility: Soluble Evaporation Rate: NA
10. Stability And Reactivity Stability: Stable Hazardous Polymerization: Will not occur <u>Conditions To Avoid (Stability)</u> Stable under normal temperatures and pressures. <u>Incompatible Materials</u> Mixing with mineral acids and organic reducing agents <u>Hazardous Decomposition Products</u> Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide. <u>Conditions To Avoid (Polymerization)</u> <small>Has not been reported</small> Conditions to Avoid: Incompatible materials, dust generation, excess heat, strong oxidants.
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. <u>RCRA Information</u> NL
14. Transport Information No Data Available...



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14. Transport Information - Continued

Proper Shipping Name

Non-Hazardous

Additional Shipping Paper Description

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

15. Regulatory Information

U.S. Regulatory Information

CAS# 13820-41-2 is listed on the TSCA inventory.

SARA Section 313 Notification

No chemicals are reportable under Section 313.

State Regulations

CAS# 13820-41-2 can be found on the following state right to know lists: New Jersey. California No Significant Risk Level: None of the chemicals in this product are listed.

Canadian Regulatory Information

CAS# 13820-41-2 (listed as Platinum) is listed on the Canadian Ingredient Disclosure List.

European Union (EU) Regulatory Information

Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 28A After contact with skin, wash immediately with plenty of water.

16. Other Information

NFPA Rating

Health: 1

Fire: 0

Reactivity: 0

HMIS Rating

Health: 1

Fire: 0

Reactivity: 0

Personal Protection: C



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16. Other Information - Continued

Revision/Preparer Information

MSDS Preparer: Wayne Sher

MSDS Preparer Phone Number: 410-398-7200

This MSDS Supercedes A Previous MSDS Dated: 02/23/2001

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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