



MATERIAL SAFETY DATA SHEET

Ammonium Hexachloroplatinate (IV)

<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;">2</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;">1</td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td style="text-align: center;">J</td> </tr> </table>	HEALTH	2	FLAMMABILITY	0	REACTIVITY	1	PERSONAL PROTECTION	J
HEALTH	2								
FLAMMABILITY	0								
REACTIVITY	1								
PERSONAL PROTECTION	J								

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 Hexachloroplatinate (IV)
Chemical Name: Ammonium Platinic Chloride, Diammonium Hexachloroplatinate
CAS Number: 16919-58-7
Chemical Family: Platinum Group Metal
Chemical Formula: (NH₄)₂ PtCl₆
MSDS Number: 6008
Product Code: 6008

Synonyms

Ammonium chloroplatinate; Ammonium platinic chloride; Diammonium hexachloroplatinate; Diammonium

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
Ammonium Hexachloroplatinate (IV)	16919-58-7	100

EMERGENCY OVERVIEW

Appearance: yellow. **Warning!** Toxic. Harmful if swallowed. May be fatal if inhaled. May cause sensitization by inhalation and by skin contact. Dust causes severe irritation of the eyes, skin and



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EMERGENCY OVERVIEW - Continued

respiratory tract.
Target Organs: Lungs.

Hazards Identification (Pictograms)



3. Hazards Identification

Primary Routes(s) Of Entry

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

Eye Hazards

Causes eye irritation. Lachrymator (substance which increases the flow of tears). Causes redness of eyes and swelling of eyelids.

Skin Hazards

May cause irritation and dermatitis. May cause sensitization by skin contact.

Ingestion Hazards

Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation Hazards

May be fatal if inhaled. May cause pulmonary fibrosis and permanent damage. May cause respiratory sensitization. Symptoms include asthma, sneezing, coughing, bronchitis, tightness of chest, and irritation of nose and throat.

Subchronic (Target Organ Effects)

Target Organ: Lungs

Chronic/Carcinogenicity Effects

Repeated exposure may cause sensitization dermatitis. Chronic inhalation may cause pulmonary emphysema. Chronic inhalation may cause pulmonary fibrosis.

Conditions Aggravated By Exposure

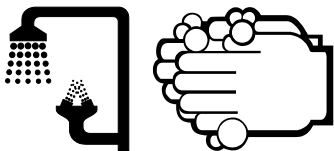
Repeated exposure can cause asthma and/or dermatitis.



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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.

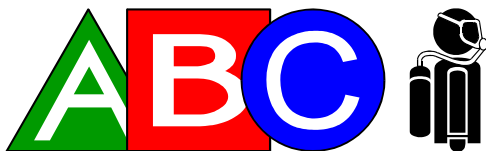
Ingestion

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

Inhalation

Get medical aid immediately. Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

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 fumes under fire conditions.

Extinguishing Media

Use water spray, carbon dioxide, dry chemical powder, or appropriate foam.

Fire Fighting Instructions

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

6. Accidental Release Measures

Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Absorb spill using an absorbent, non-combustible



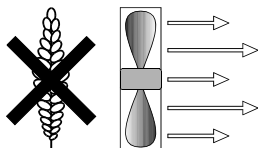
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6. Accidental Release Measures - Continued

material such as earth, sand, or vermiculite. Do not use combustible materials such as saw dust. Provide ventilation.

Handling & Storage (Pictograms)



7. Handling And Storage

Handling And Storage Precautions

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Use only in a chemical fume hood. Do not breathe dust.

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

Handling Precautions

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Use only in a chemical fume hood. Do not breathe dust.

Storage Precautions

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

Work/Hygienic Practices

Use good personal hygiene. Wash thoroughly after handling. Wash thoroughly with soap and water after handling.

Keep tightly closed.

Protective Clothing (Pictograms)



8. Exposure Controls/Personal Protection

Engineering Controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Eye/Face Protection

ANSI approved safety glasses/goggles



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8. Exposure Controls/Personal Protection - Continued

Skin Protection

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

Respiratory Protection

Government approved respirator

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

Deep yellow powder

Odor

None

Chemical Type: Mixture

Physical State: Solid

Melting Point: Decomposes °C

Molecular Weight: 443.89

Solubility: 0.7 g/100 ml (15 degree C)

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)

Incompatible materials.

Incompatible Materials

Strong oxidizing agents, strong acids

Hazardous Decomposition Products

Hydrogen chloride, nitrogen oxides, ammonia and/or derivatives, nitrogen, chloride fumes.

Conditions To Avoid (Polymerization)

Has not occurred.

Stable under normal temperatures and pressures. Dusts may form an explosion hazard. Boiling with potassium hydroxide yields a product that, after drying, explodes at 205°C or when mixed with combustible materials.

11. Toxicological Information

Miscellaneous Toxicological Information

Oral (rat): 195 mg/kg; LD50



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12. Ecological Information

No Data Available...

13. Disposal Considerations

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

DOT regulated - small quantity provisions apply (see 49CFR173.4)

Additional Shipping Paper Description

IATA: Same as DOT 49 CFR. Check regulation before shipping.

15. Regulatory Information

U.S. Regulatory Information

CAS# 16919-58-7 is listed on the TSCA inventory.

SARA Section 313 Notification

No chemicals are reportable under Section 313.

State Regulations

CAS# 16919-58-7 can be found on the following state right to know lists: New Jersey, Massachusetts.

California No Significant Risk Level: None of the chemicals in this product are listed.

Canadian Regulatory Information

CAS# 16919-58-7 is listed on Canada's DSL List. CAS# 16919-58-7 is listed on Canada's DSL

List. This product has a WHMIS classification of D1B, D2A. CAS# 16919-58-7 is listed on Canada's Ingredient Disclosure List.

European Union (EU) Regulatory Information

T - Toxic

Risk Phrases:

R 25 Toxic if swallowed.

R 40 Possible risks of irreversible effects.

Safety Phrases:

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



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15. Regulatory Information - Continued

Other International Regulations

Exposure Limits

CAS# 16919-58-7: OEL-ARAB Republic of Egypt:TWA 0.002 mg(Pt)/m³ (dust) OEL-AUSTRALIA:TWA 0.002 mg(Pt)/m³ OEL-BELGIUM:TWA 0.002 mg(Pt)/m³ OEL-CZECHOSLOVAKIA:TWA 0.001 mg(Pt)/m³;STEL 0.002 mg(Pt)/m³ OEL-DENMARK:TWA 0.002 mg(Pt)/m³ OEL-FINLAND:TWA 0.002 mg(Pt)/m³ OEL-GERMANY :TWA 0.002 mg(Pt)/m³ OEL-HUNGARY:STEL 0.002 mg(Pt)/m³ OEL-THE NETHERLANDS:TWA 0.002 mg(Pt)/m³ OEL-THE PHILIPPINES:TWA 0.002 mg(Pt)/m³ OEL-RUSSIA:STEL 0.005 mg/m³;Skin OEL-SWITZERLAND:TWA 0.002 mg(Pt)/m³ OEL-UNITED KINGDOM:TWA 0.002 mg(Pt)/m³ OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

WHMIS - Canada (Pictograms)



DSCL - Europe (Pictograms)



16. Other Information

NFPA Rating

Health: 2
Fire: 0
Reactivity: 1

HMIS Rating

Health: 2
Fire: 0
Reactivity: 1
Personal Protection: J

Revision/Preparer Information

MSDS Preparer: Wayne Sher
MSDS Preparer Phone Number: 410-398-7200

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



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Disclaimer - Continued

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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