

CMI Product #6008

Safety Data Sheet

29 CFR 1910.1200

Section 1: Company and Product Identification

Product Name: Ammonium Hexachloroplatinate (IV)

Product Code: 6008

Company: Colonial Metals, Inc.
 Building 20
 505 Blue Ball Road
 Elkton, MD 21921 United States
 Company Contact: EHS Director
 Telephone Number: 410-398-7200
 FAX Number: 410-398-2918
 E-Mail : info@colonialmetals.com
 Web Site: www.colonialmetals.com



www.colonialmetals.com

Emergency Supplier Emergency Contacts & Phone Number

Response: Chemtrec: 800-424-9300
 World Wide - Call COLLECT to U.S: 703-527-3887

Section 2: Hazards Identification

GHS06

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Hazard Pictograms:



Signal Word: Danger

Hazard Category: Acute tox, oral Cat 4
 Acute tox, inh. Cat 3
 Acute tox, dermal Cat 4
 Skin corrosion/irritation Cat 2
 Serious eye damage/eye irritation Cat 1
 Sensitization, resp. Cat 1

Hazard Statements: H302: Harmful if swallowed
 H331: Toxic if inhaled
 H312: Harmful in contact with skin
 H315: Causes skin irritation
 H318: Causes serious eye damage
 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary Statements: P261: Avoid breathing dust/fume/gas/mist/vapors/spray
 P264: Wash thoroughly after handling
 P270: Do not eat, drink or smoke when using this product
 P271: Use only outdoors or in a well-ventilated area
 P280: Wear protective gloves/protective clothing/eye protection/face protection
 P301+310: IF SWALLOWED: Immediately call a POISON CENTER or
 P302+352: IF ON SKIN: Wash with soap and water
 P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
 P312: Call a POISON CENTER or doctor/physician if you feel unwell
 P330: Rinse mouth
 P332+313: If skin irritation occurs: Get medical advice/attention
 P337+313: If eye irritation persists get medical advice/attention
 P361: Remove/Take off immediately all contaminated clothing
 P403+233: Store in a well ventilated place. Keep container tightly closed
 P405: Store locked up
 P501: Dispose of contents/container in accordance with local/regional/national/international rules.

Hazards not Conditions Aggravated By Exposure

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

Conditions Aggravated By Overexposure:

Repeated exposure can cause asthma and/or dermatitis.

Appearance: yellow. **Danger:** 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 respiratory tract.

Target Organs: Lungs.

Section 3: Composition / Information on Ingredients

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Ammonium Hexachloroplatinate (IV)	Toxic	16919-58-7	100
Chemical Name: Ammonium Platonic Chloride, Diammonium Hexachloroplatinate Chemical Family: Platinum Group Metal Chemical Formula: $(\text{NH}_4)_2 \text{PtCl}_6$ Synonyms: Ammonium chloroplatinate; Ammonium platonic chloride; Diammonium hexachloroplatinate; Diammonium			

Section 4: First Aid Measures

General Info: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area

Notable Exposure Irritation to skin, eyes and areas of contact.

symptoms:

If ingested: 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

If inhaled: 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

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation develops or persists.

Skin contact: 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.

Additional Info: Observe for any symptoms for several hours after exposure. Follow up with medical attention if symptoms develop.

Section 5: 5. Fire Fighting Measures

General Info: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Emits toxic fumes under fire conditions

Extinguishing Carbon dioxide, appropriate foam or dry powder

Method /

Hazardous Constituents associated with burning / combustion are to be considered toxic. Firefighters should wear self-contained breathing apparatus and full protective gear. Use NIOSH/MSHA approved self-

Info: contained breathing apparatus and full protective clothing

Section 6: 6. Accidental Release Measures

Personal Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all precautions, ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective protective equipment and clothing during clean-up. Avoid breathing dust/vapors. Ventilate equipment and area if easy to do so. Contact local authorities if significant spillages cannot be contained. For personal procedures: protection, see section 8 of the SDS.

Containment Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid Equipment and generating dusty conditions. Absorb spill using an absorbent, non-combustible material such as earth, Procedures: sand, or vermiculite. Do not use combustible materials such as saw dust. Provide ventilation.

Cleanup Collect all contaminated media, or other cleanup materials into a waste receptacle. If cleaning surface Procedures: is necessary, utilize vacuum cleaner, provided adequate ventilation is available.

Section 7: Handling and Storage

Safe Handling Do not handle until all safety precautions have been read and understood. Keep containers tightly

Precautions: closed Ensure adequate ventilation. Avoid breathing dust/vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment and wash thoroughly after handling.

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

Incompatibilities: Store away from strong volatile acids. Refer to Section 10.

Other Precautions: .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.

Section 8: Exposure Control / Personal Protection

General / Ventilation: Local Exhaust: Required in handling area

Engineering Mechanical: Desirable to insure concentration of material below TLV/TWA levels

Controls: Other: Closed ventilation system with corrosive resistant materials
Safety shower and eyewash

Work Clothing: Protective work clothing which covers skin and prevents exposures.

Eye/face Wear safety glasses with side shields or goggles or face shield.

Skin Protection: Wear chemical resistant gloves.

Respiratory Where risk assessment shows air-purifying respirators are appropriate use full-face particle respirator

Protection: type N((US) or type 92 (EN 143) respirator cartridges as a back up to engineering controls. If the respirators the sole means of protection, use a full face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Additional Information: Observe good chemical hygiene practices. Do not smoke or eat while using this product. Wash hands or exposed skin after using the product.

Section 9: Physical and Chemical Properties

State: Powder	Melting Point: N/A	Freezing Point: N/A
Color: Deep Yellow	Boiling Point/Range: N/A	pH N/A
Molecular Wt. 443.89	Odor: None	Water Solubility: 0.7 g/100 ml (15°C)
Evaporation rate: N/A	Flash Point: N/A	Part. Coeff (n-octanol/water): N/A
Upper Flam Limits: N/A	Lower Flam Limits: N/A	Vapor Pressure: N/A
VOC Content (lbs/gal): N/A	Specific Gravity: N/A	Autoignition Temp: N/A

Section 10: Stability and Reactivity

General: 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.

Incompatible materials: Strong oxidizing agents, strong acids

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

Section 11: Toxicological Information

General Information: To the best of our knowledge the chemical, physical and toxicological effects of this compound have not been thoroughly investigated.

Toxicological Information (product): Product has not been tested. Prolonged inhalation may be harmful to human health. Irritating in case of skin or eye contact. May be harmful if swallowed or in contact with skin.

Likely Routes of Exposure: Eye Contact
Skin Contact
Inhalation
Ingestion - possible, but considered unlikely.

Carcinogenicity or mutagenicity: Oral (rat): 195 mg/kg; LD50

Sensitization: Product is not expected to be a sensitizer.

Section 12: Ecological Information

General information: Product not tested.

Section 13: Disposal Information

Product disposal: Dispose of product in accordance with local, regional, and national regulations. Consult with waste contractor.

Container disposal: Treat empty containers with extra care. Consult waste contractor.

Other considerations: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. NOTE: Chemical additions, processing, or otherwise altering this material may make the waste management information presented above incomplete, inaccurate, or otherwise inappropriate.

Section 14: Transport Information

DOT: Proper Shipping Name

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

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

OTHER: Inquire for further transport information.

Section 15: Regulatory Information

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

SARA 313 No chemicals are reportable under Section 313

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.

Regulatory Information: 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:

Information: 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).

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

Section 16: Other Information

NFPA Rating

Health: 2
Fire: 0
Reactivity: 1

HMIS Rating

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

***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.

SDS Author:

John Kerchner

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