

Product# 4004

Safety Data Sheet

29 CFR 1910.1200

Section 1: Company and Product Identification

Product Name: Ammonium Hexachloosmate (IV)

Product Code: 4005

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 Response: Supplier Emergency Contacts & Phone Number
 Chemtrec: 800-424-9300
 World Wide - Call COLLECT to U.S: 703-527-3887

Section 2: Hazards Identification

GHS06

GHS05

BLANK

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Hazard Pictograms:



Signal Word: Danger

Hazard Category: Acute tox, oral Cat 4
 Acute tox, dermal Cat 3
 Acute tox, inh. Cat 4
 Skin corrosion/irritation Cat 2
 Serious eye damage/eye irritation Cat 2
 Specific target organ tox, single exp. Cat 3 (resp irrit)

Hazard Statements: H302: Harmful if swallowed
 H311: Toxic in contact with skin
 H332: Harmful if inhaled
 H315: Causes skin irritation
 H319: Causes serious eye irritation
 H335: May cause respiratory irritation

Precautionary Statements: P202: Do not handle until all safety precautions have been read and understood
 P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
 P261: Avoid breathing dust/fume/gas/mist/vapors/spray
 P264: Wash thoroughly after handling
 P280: Wear protective gloves/protective clothing/eye protection/face protection
 P284: Wear respiratory protection
 P302+352: IF ON SKIN: Wash with soap and water
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove
 P310: Immediately call a POISON CENTER or doctor/physician

Hazards not otherwise classified: Avoid breathing dust, fume, gas, mist, vapors, and spray.

Section 3: Composition / Information on Ingredients

Hazardous substance (name)	Hazard Category	CAS#	Weight %
AMMONIUM Hexachloroosmate (IV)	Toxic	12125-08-5	
Chemical Name: Ammonium Hexachloosmate (IV) Chemical Family: Platinum Group Metal Chemical Formula: H8Cl6N2Os Synonyms: Osmium (IV)-ammonium chloride			

Section 4: First Aid Measures

General Info: Ensure proper ventilation.

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

symptoms:

If ingested: Rinse mouth. Seek immediate medical attention. Clear the airway and administer artificial respiration if not breathing. If swallowed, do not induce vomiting unless directed to do so by medical personnel. CONTACT A PHYSICIAN IMMEDIATELY

If inhaled: Remove the victim from the contaminated area while protecting yourself from exposure by wearing an appropriate respirator. Put a similar respirator on the victim if possible.. If victim is not breathing provide artificial respiration. If breathing is difficult give oxygen. Get medical attention immediately.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. CONTACT A PHYSICIAN if irritation/discomfort persists.

Skin contact: Take off immediately all contaminated clothing. Rinse with water thoroughly. CONTACT A PHYSICIAN if irritation/discomfort persists.

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

Section 5: Fire Fighting Measures

General Info: There are no fire or explosion hazards associated with this product

Extinguishing Method / Equipment: In case of fire, use water fog, dry chemical, CO2, or "alcohol" foam. Water may be ineffective.

Method / Equipment:

Hazardous Decomposition Info: Constituents associated with burning / combustion are to be considered toxic. Firefighters should wear self-contained breathing apparatus and full protective gear.

Decomposition Info: wear self-contained breathing apparatus and full protective gear.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and procedures: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors or mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust

Containment Large Spills: Contain actively spilling material if safe and easy to do so, avoid generating dust.

Equipment and Procedures: Collect material and dispose

Procedures:

Small Spills: Sweep and collect to waste receptacles.

Cleanup Procedures: Collect all contaminated media, or other cleanup materials into a waste receptacle. If cleaning surface is necessary, utilize vacuum cleaner, provided adequate ventilation is available. Ventilate area and wash spill site after cleanup is complete

Section 7: Handling and Storage

Safe Handling Precautions: Avoid contact with skin and clothing. Avoid creating dust. Avoid contact with eyes. This product is hygroscopic

Precautions: hygroscopic

Recommendations for Storage: Store in original vented container.

Storage:

Other Precautions: Wash thoroughly with soap and water after handling

Section 8: Exposure Control / Personal Protection

General / Engineering Ventilation: Local Exhaust: Yes**Controls:** Mechanical: Yes

Other: Fume Hood

Work Clothing: Protective work clothing which covers skin and prevents exposures. Lab coat/apron, flame and chemical resistant protective clothing, eye wash, safety shower, and hygiene facilities for washing.**Eye/face protection:** Wear safety glasses with side shields or goggles or face shield.**Skin Protection:** Wear chemical resistant gloves.**Respiratory Protection:** NIOSH approved chemical cartridge respirator for acid gas and dust/mist/fume or self-contained breathing apparatus with full face shield.**Section 9: Physical and Chemical Properties**

State: Solid	Melting Point: 338 °F 170 °C	Freezing Point: N/A
Color: Red Powder	Boiling Point/Range: N/A	pH: N/A
Molecular Wt. 439.02	Odor: Sharp chlorine like	Water Solubility: Soluble
Evaporation rate: N/A	Flash Point: N/A	Packing Density: 3.42 g/cm ³ @25C (77F)
Upper Flam Limits: N/A	Lower Flam Limits: N/A	Vapor Density: 2.93 g/ml at 25 degree C
VOC Content (lbs/gal): N/A	Viscosity: N/A	Autoignition Temp: N/A

Section 10: Stability and Reactivity

General: This product is stable and non-reactive under normal conditions of use. Product is not subject to hazardous polymerization. Avoid open flame and ignition sources. **Conditions To Avoid (Stability):** Exposure to moisture may affect product quality.**Incompatible materials:** Strong oxidizing agents**Decomposition products:** Hazardous decomposition products formed under fire conditions - nitrogen oxides, (NOx), Hydrogen Chloride**Section 11: Toxicological Information**

General Information: Acute Inhalation Effects: May cause respiratory tract irritation.**Toxicological Information (product):** To the best of our knowledge the chemical, physical, and toxicological properties of this compound have not been thoroughly investigated.**Section 12: Ecological Information**

General information: Product not tested. Toxicity - Aquatic And Terrestrial Plants**Aquatic toxicity:** No specific data available. Do not allow large quantities of product to reach water, ground water, water courses or sewer systems.**Section 13: Disposal Information**

Product disposal: Consult Federal EPA, State and local regulations for proper disposal/recycle/reclamation. RCRA Information OsO4 is a listed EPA Hazardous Waste - P087**Container disposal:** Treat empty containers with extra care. Consult waste contractor.

Section 14: Transport Information

DOT: Proper Shipping Name:

Toxic Solid, Corrosive, Inorganic, N.O.S. (Ammonium Hexachloroosmate IV)

Hazard Class:

6.1

Secondary Hazard Class:

8

DOT Identification Number:

3290

DOT Shipping Label:

Toxic Solid, Corrosive, Inorganic, N.O.S. (Ammonium Hexachloroosmate IV)

Packaging Requirements:

Packaging group II - Limited Quantity

Packaging Exceptions

DOT Exempt Box

IMO/IMDG: UN number: 3290 Class: 6.1 (8) Packing group: II EMS-No: F-A, S-B**Proper shipping name:** Toxic Solid, Corrosive, Inorganic, N.O.S. (Ammonium Hexachloroosmate IV)**Marine Pollutant:** No**IATA: UN number:** 3290 Class: 6.1 (8) **Packing group:** II**Proper shipping name:** Toxic solid, corrosive, inorganic, n.o.s. (Dipotassium hexachloroosmate)**OTHER:** See IATA regulations for Air shipping.**Section 15: Regulatory Information**

TSCA: All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory**SARA 313 SARA Section 313 Notification:**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 302 Components:

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Canadian DSL: All ingredients of this product comply with the New Substances Notification requirements of the Canadian Environmental Protection Act (CEPA).**European Union (EU) R20/21/22 - Harmful by inhalation, in contact with skin, and if swallowed.****Regulatory R24/25 - Toxic in contact with skin and if swallowed****Information: S7/9 - Keep container tightly closed and in a well-ventilated place**

S24/25 - Avoid contact with skin and eyes

Section 16: Other Information

NFPA Rating

Health: 2

Fire: 0

Reactivity: 0

Other: TOX

HMIS Rating

Health: 2

Fire: 0

Reactivity: 0

Personal

Protection: C

Precautionary Label:

Toxic and Corrosive

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 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**Version Date:** 11/24/2015