

Product# 3005

Safety Data Sheet

29 CFR 1910.1200

Section 1: Company and Product Identification

Product Name: Ammonium Hexachloro Iridate (IV)

Product Code: 3005

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

GHS07

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Hazard Pictograms:



Signal Word: Warning

Hazard Category: Acute tox, oral 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
 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
 P264: Wash thoroughly after handling
 P280: Wear protective gloves/protective clothing/eye protection/face protection
 P308+313: IF exposed or concerned: Get medical advice/attention
 P402+404: Store in a dry place. Store in a closed container
 P501: Dispose of contents/container in accordance with local/national/international rules.

Hazards not otherwise classified: To the best of our knowledge the chemical, physical and toxicological properties of this compound have not been thoroughly investigated.

Section 3: Composition / Information on Ingredients

| Hazardous substance (name) | Hazard Category | CAS# | Weight % |
|---|-----------------|------------|----------|
| Ammonium Hexachloroiridium (IV) | Irritant | 16940-92-4 | 99.9 |
| Chemical Name: Ammonium Hexachloroiridium (IV), Ammonium Iridium (IV) Hexachloride Chemical Family: Platinum Group Metal Salts Chemical Formula: (NH ₄) ₂ IrCl ₆ Synonyms: Diammonium hexachloroiridate, Diammonium iridium hexachloride | | | |

Section 4: First Aid Measures

General Info: Ensure proper ventilation.

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

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.

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. 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. Get medical attention if irritation develops or persists.

Skin contact: Take off immediately all contaminated clothing. Rinse with water thoroughly. Get medical advice if irritation develops or 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: Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Sodium oxides, Iridium oxides

Extinguishing Method / Equipment: Use medium to fight surrounding fire

Method / Equipment:

Hazardous Decomposition Info: Can decompose to emit hydrogen chloride and nitrogen oxides

Decomposition Info:

Section 6: Accidental Release Measures

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

Containment Equipment and Procedures: Pick up and arrange for disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

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.

Section 7: Handling and Storage

Safe Handling Precautions: Do not handle until all safety precautions have been read and understood. Keep containers tightly closed. Ensure adequate ventilation. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment and wash thoroughly after handling.

Recommendations for Storage: Store in a tightly sealed container in a cool, dry place. Product is hygroscopic, store away from water and moisture

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.

Section 8: Exposure Control / Personal Protection

General / Ventilation: Local Exhaust: Yes

Engineering Controls: Mechanical: Yes

Controls: 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 dust/mist/fume/radionuclide or self-contained breathing apparatus with full face shield.

Section 9: Physical and Chemical Properties

| | | |
|-----------------------------------|---------------------------------|---|
| State: Solid Powder | Melting Point: N/A | Freezing Point: N/A |
| Color: Red/Black Crystals | Boiling Point/Range: N/A | pH: N/A |
| Molecular Wt.: 441.2 | Odor: N/A | Water Solubility: 0.7 gm/ 100 ml |
| 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 Density: 2.856 g/cm ³ |
| 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) Elevated temperature.

Incompatible materials: Water/ moisture.

Decomposition products: Hydrogen chloride and nitrogen oxides.

Section 11: Toxicological Information

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.

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

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

Section 14: Transport Information

DOT: Not Dangerous Goods - Considered non-hazardous for transport.

IATA: Not Dangerous Goods - Considered non-hazardous for transport.

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 Components: **SARA 302 Components:** SARA 302: This material does not contain any chemical components SARA Title III, Section 302 reporting requirements.

SARA 313 Components: SARA 313: 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 311/312 Hazards: No Sara Hazards

Canadian Regulatory Information: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS

Information: contains all of the information required by the CPR.

DSL: Yes

NDSL: No

European Union (EU) Regulatory Information: Symbol of Danger: Xn

Indication of danger: Harmful

Information: R: 20/21/22

Risk Statements: Harmful by inhalation, in contact with skin and if swallowed.

S: 26-36/37/39-45

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

Section 16: Other Information

NFPA Rating

Health: 1

Fire: 0

Reactivity: 0

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 believe to be correct; however, you (the customer), should preform 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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