


MATERIAL SAFETY DATA SHEET

Ammonium Hexachloro Iridate (IV)

NFPA 	HMIS <table border="1"><tr><td>HEALTH</td><td style="text-align: center;">2</td></tr><tr><td>FLAMMABILITY</td><td style="text-align: center;">0</td></tr><tr><td>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

Supplier Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States Company Contact: Joseph Fittos III Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: jfittos@colonialmetals.com Web Site: colonialmetals.com	Manufacturer Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States Company Contact: Joseph Fittos III Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: jfittos@colonialmetals.com Web Site: colonialmetals.com
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Supplier Emergency Contacts & Phone Number Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887	Manufacturer Emergency Contacts & Phone Number Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887
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Issue Date: 09/14/2007

Product Name: Ammonium Hexachloro Iridate (IV)
Chemical Name: Ammonium Hexachloroiridium (IV), Ammonium Iridium (IV) Hexachloride
CAS Number: 16940-92-4
Chemical Family: Platinum Group Metal Salts
Chemical Formula: (NH₄)₂ IrCl₆
MSDS Number: 3005
Product Code: 3005

Synonyms
Diammonium hexachloroiridate, Diammonium iridium hexachloride

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
Ammonium Hexachloroiridium (IV)	16940-92-4	99.9

EMERGENCY OVERVIEW

Harmful.

To the best of our knowledge the chemical, physical, and toxicological properties of this compound have not been thoroughly investigated. Avoid elevated temperature. Product incompatible with strong reducing agents. Can decompose ammonia and chlorine vapors.

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3. Hazards Identification

Primary Routes(s) Of Entry

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

Eye Hazards

Irritation

Skin Hazards

Harmful and irritating.

Ingestion Hazards

Harmful to gastrointestinal tract.

Inhalation Hazards

Harmful and Irritating to upper respiratory tract and mucous membranes.

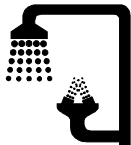
Conditions Aggravated By Exposure

May cause irritation of the respiratory system. Maintain housekeeping and personal hygiene to minimize exposure and prevent sensitization.

Conditions Aggravated By Overexposure

To the best of our knowledge, the chemical, the physical, and toxicological properties of this compound 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 immediately.

Skin

Immediately wash with soap and water and rinse thoroughly. If discomfort occurs or persists, contact a physician immediately. Remove contaminated clothing and shoes and wash before reuse.

Ingestion

Wash out mouth with water provided victim is conscious, never give anything by mouth to an unconscious person. Seek medical attention immediately.

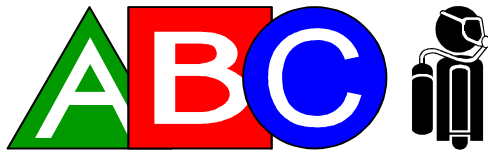
Inhalation

Remove to fresh air immediately. If breathing is difficult give oxygen. If required provide artificial respiration. Contact a physician immediately.

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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 hydrogen chloride and nitrogen oxides.

Extinguishing Media

Use medium to fight surrounding fire.

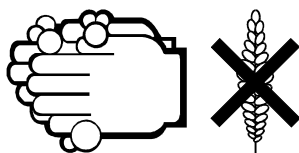
Fire Fighting Instructions

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

6. Accidental Release Measures

Ensure adequate ventilation. Soak or sweep up and place in a sealed container. Person protected with full face shield and proper respirator for chlorine gas.

Handling & Storage (Pictograms)



7. Handling And Storage

Handling Precautions

Ensure good ventilation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage Precautions

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

Work/Hygienic Practices

Always use good personal hygiene after handling. Keep away from foodstuffs.

Other Precautions

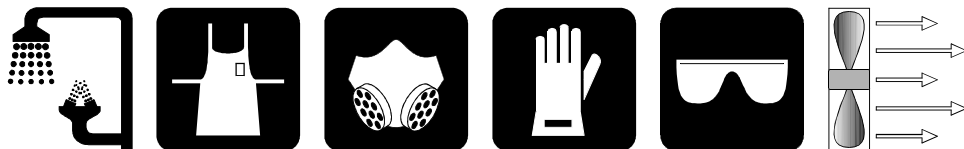
0.01 ppm high efficiency particular respirator/supplied air respirator/self-contained breathing apparatus; 0.2 ppm same as above with full face piece; 1 ppm powdered air purifying respirator with high efficiency filter/type C supplied air respirator operated in pressure demand mode. Store in a sealed container, plastic or plastic liner, in a cool, well ventilated, dry area away from volatile acids.

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7. Handling And Storage - Continued

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: NA

Safety shower and eyewash

Eye/Face Protection

ANSI approved safety glasses/goggles

Skin Protection

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

Respiratory Protection

NIOSH approved chemical cartridge respirator for dust/mist/fume/radionuclide 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/Black crystals

Chemical Type: Mixture

Physical State: Solid

Melting Point: Decomposes °C

Boiling Point: NA °C

Specific Gravity: NE

Molecular Weight: 441.2

Vapor Pressure: NA

Vapor Density: 2.856 g/cm³

pH Factor: NA

Solubility: 0.7 gm/ 100 ml

Evaporation Rate: NA

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatible Materials

Water/ moisture.

Hazardous Decomposition Products

Hydrogen chloride and nitrogen oxides.

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11. Toxicological Information

Acute Studies

Oral LD50: 1852 mg/kg (rat)

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

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.

14. Transport Information

No Data Available...

15. Regulatory Information

U.S. Regulatory Information

This compound is listed on the TSCA inventory.

Canadian Regulatory Information

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

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).

DSCL - Europe (Pictograms)



16. Other Information

NFPA Rating

Health: 1

Fire: 0

Reactivity: 0

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16. Other Information - Continued

HMIS Rating

Health: 2

Fire: 0

Reactivity: 1

Personal Protection: J

Revision/Preparer Information

MSDS Preparer: Joseph J. Fittos III

MSDS Preparer Phone Number: 410-398-7200

This MSDS Supercedes A Previous MSDS Dated: 03/15/1998

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.

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