

MATERIAL SAFETY DATA SHEET

Iridium (IV) Chloride Hydrate

1. Product And Company Identification	
Supplier Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States Company Contact: Michael Doss - Dir. of Regulatory Affairs Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: mdoss@colonialmetals.com Web Site: www.colonialmetals.com	Manufacturer Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States Company Contact: Michael Doss - Dir. of Regulatory Affairs Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: mdoss@colonialmetals.com Web Site: www.colonialmetals.com
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
Issue Date: 06/19/2008 Product Name: Iridium (IV) Chloride Hydrate Chemical Name: Iridium (IV) Chloride Hydrate, Iridium Chloride CAS Number: 10025-97-5 Chemical Family: Platinum Group Metal Salts Chemical Formula: IrCl ₄ *H ₂ O MSDS Number: 3016 Product Code: 3016	

2. Composition/Information On Ingredients			
Ingredient Name	CAS Number		Percent Of Total Weight
Iridium (IV) Chloride Hydrate	10025-97-5		99.5

EMERGENCY OVERVIEW

To the best of our knowledge the chemical, physical, and toxicological properties have not been thoroughly investigated. Avoid elevated temperature. Product incompatible with acids, alkalines, alkaline metal salts, coppers, zinc salts, cyanides, and carbon monoxide. Can decompose chlorine vapors.

3. Hazards Identification	
Primary Routes(s) Of Entry Inhalation: Likely Skin: Likely Ingestion: Likely	
Eye Hazards Irritation	
Skin Hazards Irritation	
Ingestion Hazards May cause gastrointestinal irritation; poisoning is unlikely on a single exposure.	
Inhalation Hazards Irritation to the mucous membrane.	

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3. Hazards Identification - Continued

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 have not been thoroughly investigated.

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

Not expected to be a problem in industry. However if swallowed and discomfort occurs, contact a physician.

Inhalation

Remove to fresh air immediately. If discomfort occurs or persists, contact a physician.

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 of chlorine gas.

Extinguishing Media

Water spray, CO2, foam or medium to fight primary source

Fire Fighting Instructions

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

6. Accidental Release Measures

Sweep up and place in sealed container. Person protected with full face shield and proper respirator for chlorine vapor.

7. Handling And Storage

Handling And Storage Precautions

Avoid contact with eyes, prolonged or repeated contact with skin. Use compatible chemical resistant gloves. Wash hands thoroughly after handling.

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.

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

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8. Exposure Controls/Personal Protection - Continued

Eye/Face Protection

ANSI approved safety glasses/goggles

Skin Protection

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

Respiratory Protection

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

Black crystalline/powder

Odor

Acrid odor

Chemical Type: Mixture

Physical State: Solid

Melting Point: Decomposes °C

Boiling Point: NA °C

Specific Gravity: 5.3

Molecular Weight: 352.0

Vapor Pressure: NA

Vapor Density: NA

pH Factor: NA

Solubility: Very soluble

Evaporation Rate: NA

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)

Elevated temperature

Incompatible Materials

Acids, alkalines, alkaline metal salts, copper, zinc salts, cyanides, and carbon monoxide

Hazardous Decomposition Products

Chlorine vapors

11. Toxicological Information

No Data Available...

12. Ecological Information

No Data Available...

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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

No Data Available...

16. Other Information

Revision/Preparer Information

MSDS Preparer: Wayne Sher

MSDS Preparer Phone Number: 410-398-7200

This MSDS Supersedes 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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