

MATERIAL SAFETY DATA SHEET

Sodium Hexachloroiridium (IV) Hydrate

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	
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: 04/27/2007 Product Name: Sodium Hexachloroiridium (IV) Hydrate Chemical Name: Sodium Hexachloroiridium (IV) Hydrate, Sodium Iridium (IV) Hexachloride CAS Number: 16941-25-6 Chemical Family: Platinum Group Metal Salts Chemical Formula: Na ₂ IrCl ₆ .6H ₂ O MSDS Number: 3007 Product Code: 3007			
2. Composition/Information On Ingredients			
Ingredient Name		CAS Number	Percent Of Total Weight
Sodium Hexachloroiridium (IV) Hydrate		16941-25-6	80.7
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 strong reducing agents. 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. Does not cause serious toxic manifestations.			

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3. Hazards Identification - Continued

Inhalation Hazards

Irritation

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.

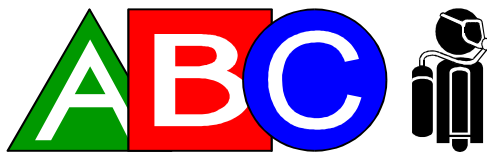
Ingestion

Not expected to be a problem in industry. However if swallowed DO NOT induce vomiting unless instructed to by medical personnel. Never give anything by mouth to an unconscious person. If discomfort occurs, contact a physician immediately.

Inhalation

Remove to fresh air immediately. If breathing is difficult, give oxygen. If not breathing, perform artificial respiration. Contact a physician immediately.

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 toxic chloride, halogenated compounds, some metallic oxides, and hydrogen chloride fumes.

Extinguishing Media

Water spray, CO₂, foam or mediumsuitable for surrounding fires.

Fire Fighting Instructions

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

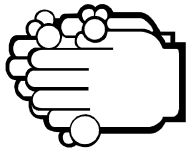
6. Accidental Release Measures

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

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Handling & Storage (Pictograms)



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.

Handling Precautions

Do not ingest. Avoid getting in eyes.

Storage Precautions

Keep in a tightly closed in a cool, well ventilated area.

Work/Hygienic Practices

Use good personal hygiene 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.

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: Use in a chemical fume hood

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.

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9. Physical And Chemical Properties

Appearance

Dark red/black crystals

Odor

Acrid odor

Chemical Type: Mixture

Physical State: Solid

Melting Point: Decomposes °C

Boiling Point: NA °C

Specific Gravity: NE

Molecular Weight: 559.25

Vapor Pressure: NA

Vapor Density: NA

pH Factor: NA

Solubility: Soluble

Evaporation Rate: NA

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)

Elevated Temperature

Incompatible Materials

Strong reducing agents

Hazardous Decomposition Products

Chlorine vapors, halogenated compounds, hydrogen chloride.

11. Toxicological Information

No Data Available...

12. Ecological Information

No Data Available...

13. Disposal Considerations

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

European Union (EU) Regulatory Information

Harmful. Irritant.

Risk Phrases: R22/ R36

Harmful if swallowed. Irritating to eyes.

Safety Phrases: S22/ S24

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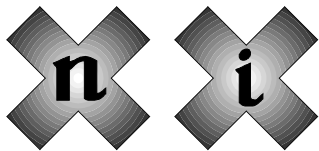
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15. Regulatory Information - Continued

European Union (EU) Regulatory Information - Continued

Do not breathe dust. Avoid contact with skin.

DSCL - Europe (Pictograms)



16. Other Information

Revision/Preparer Information

MSDS Preparer: Joseph J. Fittos III

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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