



MATERIAL SAFETY DATA SHEET

Iridium (III) Chloride Anhydrous

NFPA	HMIS								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #00b0f0; color: white;">HEALTH</td> <td style="text-align: center; width: 40px;">2</td> </tr> <tr> <td style="background-color: #ff0000; color: white;">FLAMMABILITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="background-color: #ffff00;">REACTIVITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td style="text-align: center;">C</td> </tr> </table>	HEALTH	2	FLAMMABILITY	0	REACTIVITY	0	PERSONAL PROTECTION	C
HEALTH	2								
FLAMMABILITY	0								
REACTIVITY	0								
PERSONAL PROTECTION	C								

1. Product And Company Identification

<p>Supplier Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States</p> <p>Company Contact: Wayne Sher Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: wsher@colonialmetals.com Web Site: colonialmetals.com</p>	<p>Manufacturer Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States</p> <p>Company Contact: Wayne Sher Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: wsher@colonialmetals.com Web Site: colonialmetals.com</p>
<p>Supplier Emergency Contacts & Phone Number Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887</p>	<p>Manufacturer Emergency Contacts & Phone Number Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887</p>

Issue Date: 07/18/2006

Product Name: Iridium (III) Chloride Anhydrous
Chemical Name: Iridium (III) Chloride, Iridium Chloride
CAS Number: 10025-83-9
Chemical Family: Platinum Group Metal Salts
Chemical Formula: IrCl₃
MSDS Number: 3002
Product Code: 3002

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	>	Percent Of Total Weight
Iridium (III) Chloride Hydrate	10025-83-9	>	99

EMERGENCY OVERVIEW

No notable hazards reported for this material. Unrecognized hazards may be present. Irritating to the respiratory tract, skin and eyes. May be harmful if swallowed.



MATERIAL SAFETY DATA SHEET

Iridium (III) Chloride Anhydrous

Hazards Identification (Pictograms)



3. Hazards Identification

Primary Routes(s) Of Entry

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

Eye Hazards

Causes mild irritation to the eyes.

Skin Hazards

Causes slight irritation of the skin.

Ingestion Hazards

No information is available on the physiological effects of ingestion.

Inhalation Hazards

Inhalation of dust leads to irritation of the respiratory tract.

Subchronic (Target Organ Effects)

Irritating to skin, eyes and respiratory tract.

Chronic/Carcinogenicity Effects

No information available on long-term chronic effects.

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

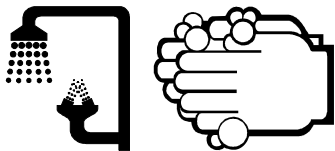
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.



MATERIAL SAFETY DATA SHEET

Iridium (III) Chloride Anhydrous

First Aid (Pictograms)



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.

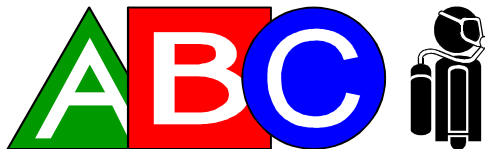
Ingestion

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.

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 fumes of chlorine gas.

Extinguishing Media

Use CO₂ (Carbon Dioxide), dry chemical, or foam.

Fire Fighting Instructions

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

6. Accidental Release Measures

Soak up and place in sealed container for disposal or reclamation. Person protected with full face shield and approved respirator and cartridge for chlorine vapor and dust. Ventilate area and wash spill site after pick up is completed.

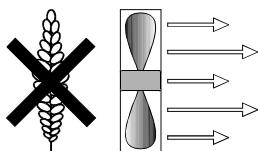


MATERIAL SAFETY DATA SHEET

Iridium (III) Chloride Anhydrous

6. Accidental Release Measures - Continued

Handling & Storage (Pictograms)



7. Handling And Storage

Handling And Storage Precautions

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

Handling Precautions

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

Storage Precautions

Store solid in a tightly sealed container.

Work/Hygienic Practices

Use good personal hygiene. Wash thoroughly with soap and water 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: Closed Ventilation system (Laboratory Fume Hood)

Eye/Face Protection

ANSI approved safety glasses/goggles, full face shield

Skin Protection

Rubber/Neoprene (use compatible chemical-resistant gloves)

Respiratory Protection

NIOSH approved chemical cartridge respirator for particulates and dust or self-contained breathing apparatus with



MATERIAL SAFETY DATA SHEET

Iridium (III) Chloride Anhydrous

8. Exposure Controls/Personal Protection - Continued

Respiratory Protection - Continued

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 powder

Odor

Odorless

Chemical Type: Mixture

Physical State: Solid

Melting Point: Decomposes °C

Boiling Point: NA °C

Specific Gravity: ^5

Molecular Weight: 298.55

Vapor Pressure: NA

Vapor Density: NA

pH Factor: NA

Solubility: Insoluble

Evaporation Rate: NA

10. Stability And Reactivity

Stability: Stable under normal conditions and temperatures.

Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)

None

Incompatible Materials

Active metals

Hazardous Decomposition Products

None

Conditions To Avoid (Polymerization)

Will not polymerize

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



MATERIAL SAFETY DATA SHEET

Iridium (III) Chloride Anhydrous

13. Disposal Considerations - Continued

presented above incomplete, inaccurate, or otherwise inappropriate.

RCRA Information

NA

14. Transport Information

Additional Shipping Paper Description

Non-hazardous for shipping.

IATA: Non-hazardous for shipping consult IATA regulation before shipping.

15. Regulatory Information

U.S. Regulatory Information

TSCA: This product is TSCA listed.

SARA Section 313 Notification

This product does not require reporting per SARA Title 313.

Canadian Regulatory Information

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

European Union (EU) Regulatory Information

Hazard Symbol:

Xi

Hazard Classification: IRRITANT

R 36/37/38

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

S 26

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

S 36

WEAR SUITABLE PROTECTIVE CLOTHING.

DSCL - Europe (Pictograms)



16. Other Information

NFPA Rating

Health: 2

Fire: 0

Reactivity: 0

HMIS Rating

Health: 2

Fire: 0

Reactivity: 0

Personal Protection: C



MATERIAL SAFETY DATA SHEET

Iridium (III) Chloride Anhydrous

16. Other Information - Continued

HMIS Rating - Continued

Revision/Preparer Information

MSDS Preparer: Wayne Sher

MSDS Preparer Phone Number: 410-398-7200

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 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.

Printed Using MSDS Generator™ 2000