



# MATERIAL SAFETY DATA SHEET

## Iridium (III) Chloride Anhydrous

<b>NFPA</b> 	<b>HMIS</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #00b0f0; color: white;">HEALTH</td> <td style="text-align: center;">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><b>Supplier</b>          Colonial Metals, Inc.          Building 20          505 Blue Ball Road          Elkton, MD 21921 United States</p> <p><b>Company Contact:</b> Wayne Sher  <b>Telephone Number:</b> 410-398-7200  <b>FAX Number:</b> 410-398-2918  <b>E-Mail:</b> wsher@colonialmetals.com  <b>Web Site:</b> colonialmetals.com</p>	<p><b>Manufacturer</b>          Colonial Metals, Inc.          Building 20          505 Blue Ball Road          Elkton, MD 21921 United States</p> <p><b>Company Contact:</b> Wayne Sher  <b>Telephone Number:</b> 410-398-7200  <b>FAX Number:</b> 410-398-2918  <b>E-Mail:</b> wsher@colonialmetals.com  <b>Web Site:</b> colonialmetals.com</p>
<p><b>Supplier Emergency Contacts &amp; Phone Number</b>          Chemtrac: 800-424-9300          World Wide - Call COLLECT to U.S: 703-527-3887</p>	<p><b>Manufacturer Emergency Contacts &amp; Phone Number</b>          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:** IrCl<sub>3</sub>  
**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.



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## 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

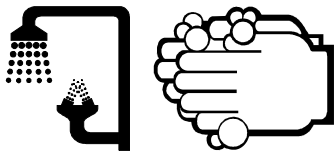
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.



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## 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.

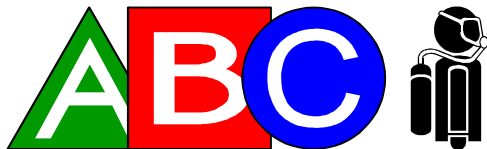
#### Ingestion

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.

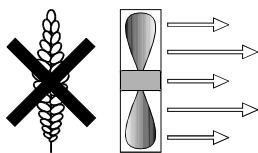


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## Iridium (III) Chloride Anhydrous

### 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



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## 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



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## 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.

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