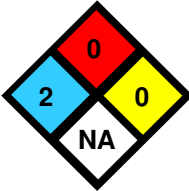




# MATERIAL SAFETY DATA SHEET

## Rhodium (III) Chloride Anhydrous

<p><b>NFPA</b></p> 	<p><b>HMIS</b></p> <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 style="background-color: #cccccc;">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								

<b>1. Product And Company Identification</b>	
<p><b>Supplier</b> Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States</p> <p><b>Company Contact:</b> Joseph J. Fittos III <b>Telephone Number:</b> 410-398-7200 <b>FAX Number:</b> 410-398-2918 <b>E-Mail:</b> jfittos@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> Joseph J. Fittos III <b>Telephone Number:</b> 410-398-7200 <b>FAX Number:</b> 410-398-2918 <b>E-Mail:</b> jfittos@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>
<p><b>Issue Date:</b> 11/14/2006</p> <p><b>Product Name:</b> Rhodium (III) Chloride Anhydrous <b>Chemical Name:</b> Rhodium (III) Chloride/Rhodium Trichloride <b>CAS Number:</b> 10049-07-7 <b>Chemical Family:</b> Platinum Group Metal Salts <b>Chemical Formula:</b> RhCl<sub>3</sub> <b>MSDS Number:</b> 7001 <b>Product Code:</b> 7001</p> <p><b>Synonyms</b> NA</p>	

<b>2. Composition/Information On Ingredients</b>			
	Ingredient Name	CAS Number	Percent Of Total Weight
	Rhodium (III) Chloride Anhydrous	10049-07-7	99

<b>EMERGENCY OVERVIEW</b>
Harmful Harmful if swallowed. Risk of serious damage to eyes if exposed to the powder. Target Organs:Nerves. Blood



# MATERIAL SAFETY DATA SHEET

## Rhodium (III) Chloride Anhydrous

### 3. Hazards Identification

#### Primary Routes(s) Of Entry

**Inhalation:** Likely

**Skin:** Likely

**Ingestion:** Likely

#### Eye Hazards

Causes eye irritation.

#### Skin Hazards

Causes skin irritation.

#### Ingestion Hazards

Harmful if swallowed.

#### Inhalation Hazards

Causes respiratory tract irritation. May cause nose, throat, and lung irritation.

#### Subchronic (Target Organ Effects)

Nerves and Blood.

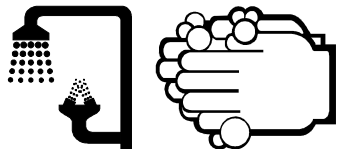
#### Conditions Aggravated By Exposure

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, and toxicological properties 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.

#### 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

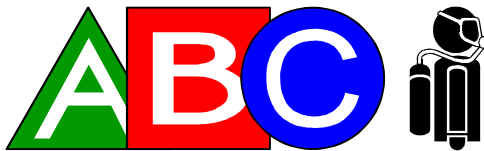
Remove to fresh air immediately. If discomfort occurs or persists, contact a physician.



# MATERIAL SAFETY DATA SHEET

## Rhodium (III) Chloride Anhydrous

### Fire Fighting (Pictograms)



### 5. Fire Fighting Measures

**Flash Point Method:** NA

**Flammability Class:** NA

#### Fire And Explosion Hazards

Use proper safety equipment.

#### Extinguishing Media

Use water spray, foam, dry chemical, carbon dioxide or medium to fight primary source.

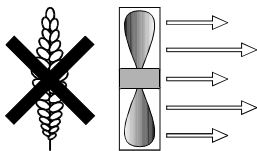
#### Fire Fighting Instructions

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

### 6. Accidental Release Measures

Sweep up and place in sealed container for reclamation or disposal. Person protected with safety glasses, gloves, and lab coat. Wash spill site after pick up is complete.

### 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 breathing dust or solution spray. Avoid contact with eyes. Avoid contact with skin.

#### Storage Precautions

Do not store directly on ground. Keep Tightly Closed.

#### Work/Hygienic Practices

Use good personal hygiene. Wash thoroughly after handling. Wash thoroughly with soap and water after handling.

#### **Other Precautions**

Dust mask. Store in a sealed container, plastic or plastic liner, in a cool, well ventilated, dry area away from volatile acids.



# MATERIAL SAFETY DATA SHEET

## Rhodium (III) Chloride Anhydrous

### Protective Clothing (Pictograms)



### 8. Exposure Controls/Personal Protection

#### Engineering Controls

**Ventilation:** Local Exhaust: Required in handling area  
**Mechanical:** Not needed  
**Other:** Recommended

#### Eye/Face Protection

ANSI approved safety glasses/goggles

#### Skin Protection

Rubber/Neoprene or latex (use compatible chemical-resistant gloves)

#### Respiratory Protection

Dust mask

#### 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

Dark red deliquescent crystals

**Chemical Type:** Pure

**Physical State:** Solid

**Melting Point:** >100 (decomposes) °C

**Molecular Weight:** 263.31

**Vapor Pressure:** NA

**Vapor Density:** NA

**pH Factor:** NA

**Solubility:** Insoluble

**Evaporation Rate:** NA

### 10. Stability And Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

#### Hazardous Decomposition Products

Hazardous decomposition products. Nature of decomposition products not known.

#### Conditions To Avoid (Polymerization)

Will not occur.



# MATERIAL SAFETY DATA SHEET

## Rhodium (III) Chloride Anhydrous

### 11. Toxicological Information

#### Eye Effects

May cause eye irritation. Causes severe eye irritation.

#### Skin Effects

May cause skin irritation.

#### Acute Oral Effects

Ingestion: Harmful if swallowed.

#### Acute Inhalation Effects

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

#### Subchronic (Target Organ Effects)

Central Nervous System and Blood.

### 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.

#### RCRA Information

NL

### 14. Transport Information

#### Proper Shipping Name

Rhodium (III) Chloride Anhydrous

#### Additional Shipping Paper Description

IATA: None - Consult IATA regulation before shipping.

### 15. Regulatory Information

#### U.S. Regulatory Information

For R&D use only. Not for drug, household or other uses.

#### SARA Section 313 Notification

This product does not require reporting under SARA Notification.

#### Canadian Regulatory Information

WHMIS Classification: 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.



# MATERIAL SAFETY DATA SHEET

## Rhodium (III) Chloride Anhydrous

### 15. Regulatory Information - Continued

#### European Union (EU) Regulatory Information

Symbol of Danger: Xn

Indication of Danger: Harmful.

R: 22-41

Risk Statements: Harmful if swallowed. Risk of serious damage to eyes.

S: 26-36/39

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and eye/face protection.

#### Other International Regulations

US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Harmful.

Risk Statements: Harmful if swallowed. Risk of serious damage to eyes.

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and eye/face protection.

US Statements: Target organ(s): Nerves. Blood.

#### DSCL - Europe (Pictograms)



### 16. Other Information

#### NFPA Rating

Health: 2

Fire: 0

Reactivity: 0

Other: NA

#### HMIS Rating

Health: 2

Fire: 0

Reactivity: 0

Personal Protection: C

#### 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, 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



# MATERIAL SAFETY DATA SHEET

## Rhodium (III) Chloride Anhydrous

### Disclaimer - Continued

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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