


# MATERIAL SAFETY DATA SHEET

## Rhodium Sponge

<b>NFPA</b> 	<b>HMIS</b> <table border="1"><tr><td>HEALTH</td><td style="text-align: center;">2</td></tr><tr><td>FLAMMABILITY</td><td style="text-align: center;">3</td></tr><tr><td>REACTIVITY</td><td style="text-align: center;">0</td></tr><tr><td>PERSONAL PROTECTION</td><td style="text-align: center;">G</td></tr></table>	HEALTH	2	FLAMMABILITY	3	REACTIVITY	0	PERSONAL PROTECTION	G
HEALTH	2								
FLAMMABILITY	3								
REACTIVITY	0								
PERSONAL PROTECTION	G								

### 1. Product And Company Identification

<b>Supplier</b> 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	<b>Manufacturer</b> 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
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<b>Supplier Emergency Contacts &amp; Phone Number</b> Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887	<b>Manufacturer Emergency Contacts &amp; Phone Number</b> Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887
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**Issue Date:** 01/23/2009

**Product Name:** Rhodium Sponge  
**Chemical Name:** Rhodium powder  
**CAS Number:** 7440-16-6  
**Chemical Family:** metal or element  
**Chemical Formula:** Rh  
**MSDS Number:** 7000  
**Product Code:** 7000

**Synonyms**  
None

### 2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Volume
Rhodium Sponge	7440-16-6	99 - 100

### EMERGENCY OVERVIEW

**Flammable solid.**

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

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## Rhodium Sponge

### Hazards Identification (Pictograms)



### 3. Hazards Identification

#### Primary Routes(s) Of Entry

Eyes: Likely  
Skin: Likely  
Ingestion: Likely  
Inhalation: Likely

#### Eye Hazards

May cause mild to severe irritation to the eyes.

#### Skin Hazards

May cause irritation to the skin, and maybe harmful if absorbed through the skin.

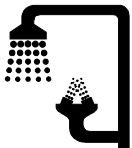
#### Ingestion Hazards

May be harmful if swallowed.

#### Inhalation Hazards

May be harmful if inhaled. May cause irritation to the respiratory tract.

### First Aid (Pictograms)



### 4. First Aid Measures

#### Eye

Flush for 15 minutes with copious amounts of water. If discomfort occurs or persists, contact a physician immediately.

#### Skin

Wash with soap and plenty of water. If discomfort occurs or persists, contact a physician immediately. Remove contaminated clothing and shoes, and wash before reuse.

#### Ingestion

If swallowed, DO NOT induce vomiting. If victim is conscious wash mouth out with water. Never give anything by mouth to an unconscious person. Call a physician immediately.

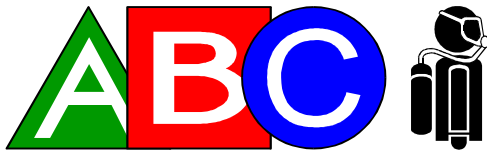
#### Inhalation

Remove to fresh air immediately. If victim is not breathing provide artificial respiration. Contact a physician immediately.

# MATERIAL SAFETY DATA SHEET

## Rhodium Sponge

### Fire Fighting (Pictograms)



### 5. Fire Fighting Measures

**Flash Point:** NA °C

**Autoignition Point:** NA °C

**Flammability Class:** NA

#### Fire And Explosion Hazards

Use proper safety equipment. May self-ignite if wetted with alcohols or related organics.

#### Extinguishing Media

Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Fire Fighting Instructions

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

### 6. Accidental Release Measures

Sweep or soak up and place in sealed container for reclamation or disposal, taking care to avoid dusting. Person protected with full face shield and NIOSH approved respirator and cartridge for dust. Ventilate area and wash spill site after pick-up is complete.

### Handling & Storage (Pictograms)



### 7. Handling And Storage

#### Handling Precautions

Avoid forming dusts and aerosols. Ensure the work area is well ventilated. Keep away from ignition sources. NO smoking. Avoid build up of electrostatic charge. Avoid contact with eyes, prolonged or repeated contact with skin. Avoid breathing dust.

#### Storage Precautions

Keep in a tightly sealed container in a cool, dry, well ventilated place.

#### Work/Hygienic Practices

Wash thoroughly with soap and water after handling.

### Protective Clothing (Pictograms)



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## Rhodium Sponge

### 8. Exposure Controls/Personal Protection

#### Engineering Controls

Ventilation: Local Exhaust: Required in handling area  
Mechanical: Desirable to insure concentration  
of material below TLV/TWA concentrations.  
Other: Closed Ventilation system - Dust (Laboratory 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 respiratory for particulates and acid gas 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.

#### Ingredient(s) - Exposure Limits

Rhodium Sponge  
ACGIH (TWA) - 1 mg/m<sup>3</sup> (as Rh) and OSHA PEL 0.1 mg/m<sup>3</sup> (as Rh-insoluble)

### 9. Physical And Chemical Properties

#### Appearance

Light grey powder.

**Chemical Type:** Pure

**Physical State:** Solid

**Melting Point:** 3571 °F 1966 °C

**Boiling Point:** 6741 °F 3727 °C

**Specific Gravity:** 12.41

**Molecular Weight:** 102.91

**Solubility:** Insoluble

### 10. Stability And Reactivity

**Stability:** Stable

**Hazardous Polymerization:** No hazardous polymerization.

#### Conditions To Avoid (Stability)

Heat, flames and sparks.

#### Incompatible Materials

Strong oxidizing agents, Halogens, Chlorine trifluoride, Oxygen difluoride.

#### Hazardous Decomposition Products

Under fire conditions: rhodium/ rhodium oxides

### 11. Toxicological Information

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

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## Rhodium Sponge

### 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

#### Proper Shipping Name

Metal powders, flammable, n.os.

#### Hazard Class

4.1

#### DOT Identification Number

3089

#### DOT Shipping Label

Flammable Solid

#### Packaging Requirements

PG II

#### Additional Shipping Paper Description

IATA: Same as DOT. Always consult the IATA manual before shipping.

#### DOT (Pictograms)



#### ADR - Europe (Pictograms)



### 15. Regulatory Information

#### 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

Symbol of Danger: F Xi

Indication of Danger: Highly Flammable. Irritant

R: 11 s of ignition - no smoking. Do not breathe dust and avoid contact with skin and eyes.

### 16. Other Information

#### NFPA Rating

Health: 2

Fire: 3

# MATERIAL SAFETY DATA SHEET

## Rhodium Sponge

### 16. Other Information - Continued

#### NFPA Rating - Continued

Reactivity: 0

#### HMIS Rating

Health: 2

Fire: 3

Reactivity: 0

Personal Protection: G

#### Revision/Preparer Information

MSDS Preparer: Joseph J. Fittos III

#### **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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