

Safety Data Sheet
29 CFR 1910.1200

Section 1: Company and Product Identification**Product Name:** Rhenium(IV) Oxide Dihydrate**CMI Product Code:** 1000-6**Cas #:** 12036-09-8

Company: Colonial Metals, Inc.
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Elkton, MD 21921 United States
Company Contact: EHS Director
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www.colonialmetals.com

Emergency Response: Supplier Emergency Contacts & Phone Number

Chemtrec: 800-424-9300

World Wide - Call COLLECT to U.S: 703-527-3887

Section 2: Hazards Identification**Hazard Pictograms:****Signal Word:**

Warning

Hazard Category:

Serious eye damage/eye irritation
Skin corrosion/irritation
Acute tox, inh.
Sensitization, resp. Cat 1
Specific target organ tox, single exp.

Hazard Statements:

H315: Causes skin irritation.
H319: Causes serious eye irritation
H335: May cause respiratory irritation.

Precautionary Statements:

P262: Do not get in eyes, on skin or clothing.
P280: Wear protective gloves/protective clothing/ eye protection/ face protection.
P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
P305+P351+P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P501: Dispose of contents/container in accordance with local/national/international rules.

Hazards not otherwise classified:

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

Section 3:**Composition / Information on Ingredients**

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Rhenium(IV) Oxide Dihydrate		12036-09-8	0-100
Chemical Name: Rhenium(IV) Oxide Dihydrate Chemical Family: Platinum Group Metal Oxide Chemical Formula: ReO ₂ .2H ₂ O	The toxicological properties of this material have not been fully investigated.		

Section 4:**First Aid Measures****General Info:** Ensure proper ventilation. Consult a physician. Show this SDS to the attending physician.**Notable Exposure symptoms:** Irritation to skin, eyes and areas of contact.**If ingested:** Rinse mouth. Seek immediate medical attention. Clear the airway and administer artificial respiration if not breathing. If swallowed, do not induce vomiting unless directed to do so by medical personnel.

If inhaled: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation develops or persists.

Skin contact: Take off immediately all contaminated clothing. Rinse with water thoroughly. Get medical advice if irritation develops or persists.

Additional Info: Observe for any symptoms for several hours after exposure. Follow up with medical attention if symptoms develop.

Section 5:

Fire Fighting Measures

General Info: Product is not flammable.

Extinguishing Method / Equipment: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Hazardous Decomposition Info: If this product is involved in a fire, the following can be released: metal oxide fumes.

Section 6:

Accidental Release Measures

Personal precautions, protective equipment and procedures: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

Containment Equipment and Procedures: Pick up mechanically and use proper disposal or reclaim methods.

Cleanup Procedures: Collect all contaminated media, or other cleanup materials into a waste receptacle. If cleaning surface is necessary, utilize vacuum cleaner, provided adequate ventilation is available.

Section 7:

Handling and Storage

Safe Handling Precautions: Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace.

Other Precautions: Avoid breathing dust of spray mist. Avoid contact with skin and clothing.

Recommendations for Storage: Do not store directly on ground. Keep container tightly sealed in a cool, dry place. Store contents under inert gas.

Incompatibilities: No further relevant information available.

Section 8:

Exposure Control / Personal Protection

General / Local Exhaust: Required in handling area

Engineering Mechanical Controls: Desirable to insure concentration of material below TLV/TWA levels

Other: Closed Ventilation system – (Laboratory Fume Hood)

Work Clothing: Protective work clothing which covers skin and prevents exposures.

Eye/face protection: Wear safety glasses with side shields or goggles or face shield.

Skin Protection: Wear chemical resistant gloves.

Respiratory Protection: NIOSH approved chemical cartridge respiratory for particles and dust or self-contained breathing apparatus with full face shield that meets OSA's 29 CFR 1910.134 and ANSI Z88.2 or EU's EN 149/EN166

Additional Information: Observe good chemical hygiene practices. Do not smoke or eat while using this product. Wash hands or exposed skin after using the product.

Section 9:

Physical and Chemical Properties

State: Powder	Melting Point: 1000 dec °C	Freezing Point: N/A
Color: Black	Boiling Point/Range: N/A	pH: N/A
Molecular Wt. 254.27	Odor: Odorless	Water Solubility: Insoluble
Evaporation rate: N/A	Flash Point: N/A	Part. Coeff (n-octanol/water): N/A
Upper Flam Limits: N/A	Lower Flam Limits: N/A	Vapor Density: 1104 g/cm ³ @ 20 °C
VOC Content (lbs./gal): N/A	Specific Gravity: N/A	Auto ignition Temp: N/A

Section 10:**Stability and Reactivity**

General: Stable under normal conditions

Incompatible materials: Oxidizing agents.

Decomposition products: Hazardous decomposition products; metal oxide fumes

Section 11:**Toxicological Information**

General Information: No data available. To the best of our knowledge, the chemical, physical, and toxicological properties of this compound have not been thoroughly investigated.

Toxicological Information (product): Product has not been tested. Prolonged inhalation may be harmful to human health. Irritating in case of skin or eye contact. May be harmful if swallowed or in contact with skin.

Carcinogenicity or mutagenicity: No data available

Section 12:**Ecological Information**

General information: Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment.

Section 13:**Disposal Information**

Product disposal: Consult Federal EPA, State and local regulations for proper disposal/ recycle/ reclamation

Container disposal: Treat empty containers with extra care. Consult waste contractor.

Other considerations: Disposal must be made according to official regulations.

Section 14:**Transport Information**

DOT: This substance is considered to be non-hazardous for shipping.

IMO/IMDG: Same as DOT. See regulation for information

IATA: Same as DOT. Always consult IATA regulations before shipping

Section 15:**Regulatory Information**

TSCA: All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

SARA 313: This material does not contain any ingredients regulated under Section 313 of the emergency Planning and Community Right-to-Know Act of 1986 or 40 CFR 372. .

Canadian DSL: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS containers all the information required by the CPR

Other Information**NFPA Rating**

Health: 1
Fire: 0
Reactivity: 0
Other:

HMIS Rating

Health: 1
Fire: 0
Reactivity: 0
Personal
Protection: J

Safety Phrases: S 24/25 Avoid contact with skin

S 37 Wear suitable gloves
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) S 28A After contact with skin, wash immediately with plenty of water.

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 believe to be correct; however, you (the customer), should preform 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.

SDS Author: Dr. Ernest Addo

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