

Safety Data Sheet

29 CFR 1910.1200

Section 1: Company and Product Identification

Product Name: Rhodium (III) Oxide Anhydrous

Product Code: 7005

Company: Colonial Metals, Inc.
 Building 20
 505 Blue Ball Road
 Elkton, MD 21921 United States
 Company Contact: EHS Director
 Telephone Number: 410-398-7200
 FAX Number: 410-398-2918
 E-Mail : info@colonialmetals.com
 Web Site: www.colonialmetals.com



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

GHS07

BLANK

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Hazard Pictograms:



Signal Word:

Warning

Hazard Category:

Serious eye damage/eye irritation Cat 3
 Skin corrosion/irritation Cat 3
 Acute tox, inh. Cat 5
 Specific target organ tox, single exp. Cat 3 (resp irrit)
 Acute tox, oral Cat 5

Hazard Statements:

H320: Causes eye irritation
 H316: Causes mild skin irritation
 H333: May be harmful if inhaled
 H335: May cause respiratory irritation
 H303: May be harmful if swallowed

Precautionary Statements:

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel
 P337+313: If eye irritation persists get medical advice/attention
 P308+313: IF exposed or concerned: Get medical advice/attention

Hazards not otherwise classified:

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 effects of this compound have not been thoroughly investigated.
 Avoid elevated temperature. Product incompatible with Organic and chlorine, bromine, alkali hydroxides, potassium chlorate and alkaline hypochlorites. Can decompose oxides of rhodium

Section 3: Composition / Information on Ingredients

| Hazardous substance (name) | Hazard Category | CAS# | Weight % |
|---|---|------------|----------|
| Rhodium (III) Oxide | Irritant | 12036-35-0 | 100 |
| Product Name: Rhodium (III) Oxide Anhydrous Chemical Name: Rhodium Sesqui-oxide Chemical Family: Platinum Group Metal Oxide Chemical Formula: Rh ₂ O ₃ | Irritating to the eyes, respiratory system and skin | | |

Section 4: First Aid Measures

General Info: Dust may cause irritation of the respiratory system. Maintain housekeeping and personal hygiene to minimize

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: Remove the victim from the contaminated area while protecting yourself from exposure by wearing an appropriate respirator. Put a similar respirator on the victim if possible. Get medical attention immediately.

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

Skin contact: 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.

Section 5: 5. Fire Fighting Measures

General Info: Use proper safety equipment. Material is capable of creating a dust explosion. Flammable solid. Emits toxic fumes under fire conditions.

Extinguishing Method / Equipment: Use water spray, carbon dioxide, dry chemical powder or dry sand. Do not use organics.

Method / Equipment:

Hazardous Constituents associated with burning / combustion are to be considered toxic. Firefighters should wear

Decomposition Info: self-contained breathing apparatus and full protective gear.

Section 6: 6. Accidental Release Measures

Personal precautions, protective equipment and procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate respiratory protective equipment and clothing during clean-up. Avoid breathing dust. Ventilate area if easy to do so, Contact local authorities if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Containment Equipment and Procedures: Large Spills: Contain actively spilling material if safe and easy to do so. Do not let product enter drains. Sweep or soak up and place in sealed container for reclamation or disposal, taking care to avoid dusting. Ventilate area and wash spill site after pick-up is complete.

Small Spills: Sweep or soak up and place in sealed container. Taking care to avoid dusting.

Cleanup Procedures: Contain spillage and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations.

Section 7: Handling and Storage

Safe Handling Precautions: Do not handle until all safety precautions have been read and understood. Keep containers tightly closed. Ensure adequate ventilation. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment and wash thoroughly after handling. Keep away from ignition sources.

Recommendations for Storage: Store in cool, dry area in a tightly closed product container away from sources of ignition or flame. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Incompatibilities: Volatile acids.

Section 8: Exposure Control / Personal Protection

General / Ventilation: Local Exhaust: Required in handling area

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

Controls: Other: Closed Ventilation system - Dust (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 Utilize organic vapor respirator if airborne levels are not maintained or if ventilation is inadequate.

Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU).

Additional Information: Components: CAS-No: Value: Control Basis:
Parameters:

| | | | | |
|--|------------|-----|-----------|--|
| Dirhodium trioxide | 12036-35-0 | TWA | 0.1 mg/m3 | USA. Occupational Exposure Limits (OSHA) - Table Z-1 - Limits for Air Contaminants |
| | | TWA | 1 mg/m3 | USA. ACGIH Threshold Limit Values (TLV) |
| Remarks - Lower Respiratory Tract irritation Not classifiable as a human carcinogen varies | | | | |
| | | TWA | 0.1 mg/m3 | USA. OSHA - TABLE Z-1 Limits for |

Section 9: Physical and Chemical Properties

| | | |
|-----------------------------------|---------------------------------|--|
| State: Solid Powder | Melting Point: N/A | Freezing Point: N/A |
| Color: Gray Black | Boiling Point/Range: N/A | pH N/A |
| Molecular Wt. 253.81 | Odor: Odorless | Water Solubility: Insoluble |
| Specific Gravity: 8.2 | Flash Point: N/A | Part. Coeff (n-octanol/water Vapor Pressure): N/A |
| Upper Flam Limits: N/A | Lower Flam Limits: N/A | Autoignition Temp: N/A |
| VOC Content (lbs/gal): N/A | Viscosity: N/A | |

Section 10: Stability and Reactivity

General: This product is stable and non-reactive under normal conditions of use. Product is not subject to hazardous polymerization. Avoid open flame and ignition sources.

Stability: Stable

Conditions to Avoid: Elevated Temperature

Incompatible materials: Organic and chlorine, bromine, alkali hydroxides, potassium chlorate and alkaline hypochlorites

Decomposition products: Oxides of rhodium

Section 11: Toxicological Information

General Information: To the best of our knowledge the chemical, physical, and toxicological effects of this compound have not been thoroughly investigated.

Toxicological Information (product): No data available

Likely Routes of Exposure: Eye Contact
Skin Contact
Inhalation
Ingestion - possible, but considered unlikely.

Toxicological Information (contained substances)

Carcinogenicity or mutagenicity: No Data Available
Sensitization: Product is not expected to be a sensitizer.
Other Notes: None

Section 12: Ecological Information

General information: No data available
Aquatic toxicity: No data available
Degradation / Mobility info: No specific data available.
Bioaccumulative potential: No specific data available.

Section 13: Disposal Information

Product disposal: Place in a sealed container. 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.
Container disposal: Treat empty containers with extra care. Consult waste contractor.
Other considerations: No further information.

Section 14: Transport Information

DOT: Proper Shipping Name
Not Dangerous Goods
Hazard Class
NA
Secondary Hazard Class
NA
IMO/IMDG: No data available
IATA: Same as DOT 49 CFR regulations. Consult IATA before shipping
Comments: None

Section 15: Regulatory Information

TSCA: Listed in the TSCA
SARA 313 This product does not require reporting per SARA Title 313. This product 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.
State Regulations: Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know Components
Dirhodium trioxide CAS-No. 12036-35-0 Revision Date
New Jersey Right To Know Components
Dirhodium trioxide CAS-No. 12036-35-0 Revision Date
California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
Canadian DSL: This product has been classified in accordance with the hazard criteria of CPR, and the MSDS contains all the information required by the CPR.
European Union (EU) Regulatory Information: Xi
R36/37/38 - Irritating to eyes, respiratory system and skin
Other International Regulations: None

Section 16: Other Information

NFPA Rating

Health: 1
Fire: 0
Reactivity: 0

HMIS Rating

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

Precautionary Label: Can be irritating to eyes and skin

***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 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: John Kerchner

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