

Safety Data Sheet

29 CFR 1910.1200

Section 1: Company and Product Identification

Product Name: Rhodium Oxide – Platinum Oxide (Nishimura Catalyst)

Product Code: 7064

CAS Number: 39373-27-8

Company: Colonial Metals, Inc.
 Building 20
 505 Blue Ball Road
 Elkton, MD 21921 United States
 Company Contact: EHS Director
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 E-Mail : info@colonialmetals.com
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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

GHS07

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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.
 Any respiratory conditions such as asthma. Maintain housekeeping and personal hygiene to minimize exposure and prevent sensitization.

Section 3: Composition / Information on Ingredients

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Rhodium Oxide	Irritant - Avoid contact with combustible materials.	12036-35-0	0 - 19.5
Platinum (IV) Oxide		1314-15-4	0 - 45
Product Name: Rhodium Oxide- Platinum Oxide (Nishimura catalyst)			
Chemical Name: Nishimura catalyst			
CAS Number: Not Established			
Chemical Family: Platinum Group Metals			
Chemical Formula: RhPtO			
Synonyms: Nishimura catalyst			

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.

symptoms:

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

Eye contact: Flush for 15 minutes with plenty of water. If discomfort occurs or persists, contact a physician

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: Fire Fighting Measures

General Info: Finely divided platinum may ignite if contacted with flammable organic solvents. Powders may be subjected to self-heating if hydrogen or carbon monoxide are occluded. 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 Decomposition Info: Constituents associated with burning / combustion are to be considered toxic. Firefighters should wear self-contained breathing apparatus and full protective gear.

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

Section 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.

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.
Storage: Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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 Protection: Utilize organic vapor respirator if airborne levels are not maintained or if ventilation is inadequate. 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).
Ingredient(s) - Rhodium oxide
Exposure Limits OSHA PEL - 0.002 MG/M3 (AS PT SOLUBLE)
 ACGIH - 0.002 MG/M3 (AS PT SOLUBLE)
 TWA - 1 MG/M3

Section 9: Physical and Chemical Properties

State: Solid Powder	Melting Point: N/A	Freezing Point: N/A
Color: Brown Black	Boiling Point/Range: N/A	pH: N/A
Molecular Wt.: N/A	Odor: Odorless	Water Solubility: Insoluble
Specific Gravity: N/A	Flash Point: N/A	Part. Coeff (n-octanol/water): N/A
Upper Flam Limits: N/A	Lower Flam Limits: N/A	Vapor Pressure: N/A
VOC Content (lbs/gal): N/A	Viscosity: N/A	Autoignition Temp: 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: Temperatures above 300°C.
Incompatible materials: Strong reducing agents, strong oxidizing agents and combustible materials
Decomposition products: Nature of decomposition products not known

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): The TDL for RAT implant is 5250 mg/kg; For implant in mice, the TDL is 23000 mg/kg platinum in this form is practically nontoxic. Platinum in this form is non-allergenic but ionic platinum halogen complexes are allergenic.

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

Section 12: Ecological Information

General information: No 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.

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

Section 15: Regulatory Information

TSCA: This chemical is TSCA listed

SARA 313 No Data Available

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.

DSL: Yes

NDSL: No

European Union Indication of Danger: Irritant

(EU) Regulatory Symbol of Danger: Xi

Information: R: 20, 38

Risk Phrase: Harmful by inhalation. Irritating to the skin.

S: 22-24/25, 36/37/39

Safety Phrase: Do not breathe dust. Avoid contact with skin and eyes. Wear suitable protective clothing, gloves, and eye face protection.

Section 16: Other Information

NFPA Rating

Health: 2

Fire: 0

Reactivity: 0

HMIS Rating

Health: 2

Fire: 0

Reactivity: 0

Personal

Protection: J

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.

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