

**Safety Data Sheet**  
29 CFR 1910.1200

**Section 1: Company and Product Identification**

**Product Name:** Palladium Powder- 200 Mesh Sponge

**Product Code:** 5056

**CAS #:** 7440-05-3

**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**

GHS02 BLANK BLANK BLANK

**Hazard Pictograms:**



**Signal Word:** Warning

**Hazard Category:** Flammable Solid  
Skin corrosion/irritation Cat 2  
Serious eye damage/eye irritation Cat 2  
Acute tox, oral Cat 5  
Aspiration hazard Cat 2

**Hazard Statements:** H228: Flammable solid

**Precautionary Statements:** P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking  
P241: Use explosion-proof electrical/ventilating/ lightning/equipment  
P280: Wear protective gloves/protective clothing/eye protection/face protection  
P370+ P378: In case of fire; Use for extinction: CO2, powder or spray

**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.

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

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Palladium Powder	Flammable Solid	7440-05-3	99-100
<b>Chemical Name:</b> Palladium Metal, Palladium Powder, Palladium Flake	<b>Chemical Family:</b> Platinum Group Metals <b>Chemical Formula:</b> Pd		

**Section 4: First Aid Measures**

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**General Info:** Ensure proper ventilation.

**Notable Exposure symptoms:** Irritation to skin, eyes and areas of contact.

**If ingested:** If victim is conscious and not convulsive, immediately give 2 to 4 glasses of water, and induce vomiting by touching finger in back of throat. From sitting position, head must be lower than hips to prevent aspiration. Keep patient warm and at rest. Get medical attention immediately.

**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 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**

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**General Info:** Autoignition. Avoid breathing fumes from burning mater

**Extinguishing Method / Equipment:** Use water spray, dry chemical, carbon dioxide (CO2) or medium for primary source. If residue self-ignites, use CO2 or dry powder extinguisher.

**Hazardous Decomposition Info:** Constituents associated with burning / combustion are to be considered toxic. Firefighters should wear self-contained breathing apparatus and full protective gear.

**Section 6: Accidental Release Measures**

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**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 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, avoid generating dust. Collect material and dispose

**Small Spills:** Sweep and collect to waste receptacles.

**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**

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**Safe Handling Precautions:** Do not handle until all safety precautions have been read and understood. Keep containers tightly closed. Ensure adequate ventilation. Avoid creating or breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment and wash thoroughly after handling. 0.01 mg/m<sup>2</sup> high efficiency particular respirator/supplied air respirator/self-contained breathing apparatus; 0.2 mg/m<sup>2</sup> same as above with full face piece; 1 mg/m<sup>3</sup> powdered air purifying respirator with high efficiency filter/type C supplied air respirator operated in pressure demand mode. Store in a sealed container, plastic or plastic liner, in a cool, well ventilated, dry area away from volatile acids.

**Recommendations for Storage:** Do not store directly on ground. Store in cool, dry area in a tightly closed product container away from sources of ignition or flame.

**Incompatibilities:** Store away from strong acids or oxidizing agents. Refer to Section 10.

**Section 8: Exposure Control / Personal Protection**

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**General / Engineering Controls:** Ventilation: Local Exhaust: Required in handling area

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

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

**Eye/face protection:** ANSI approved safety glasses/goggles (splash proof or dust-resistant) and a face shield to prevent contact with substance

**Skin Protection:** Wear chemical resistant gloves.

**Respiratory Protection:** Chemical cartridge respirator for dust/mist/fume/radionuclide, or self-contained breathing apparatus with full face shield.

**Additional Information:** Lab coat/apron, flame and chemical resistant protective clothing, eye wash, safety shower, and

hygiene facilities for washing. 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

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<b>State:</b> Powder	<b>Melting Point:</b> 1555 °C	<b>Specific Gravity:</b> nN/A
<b>Color:</b> Black Powder	<b>Boiling Point/Range:</b> <sup>3167o</sup> C	<b>pH:</b> N/A
<b>Molecular Wt.</b> 106.4/12.01	<b>Odor:</b> None	<b>Water Solubility:</b> N/A
<b>Evaporation rate:</b> N/A	<b>Flash Point:</b> N/A	<b>Part. Coeff (n-octanol/water):</b> N/A
<b>Upper Flam Limits:</b> N/A	<b>Lower Flam Limits:</b> N/A	<b>Vapor Pressure:</b> N/A
<b>VOC Content (lbs/gal):</b> N/A	<b>Viscosity:</b> N/A	<b>Autoignition Temp:</b> N/A

## Section 10: Stability and Reactivity

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**General:** Stable under recommended storage conditions. Decomposition will not occur if used and stored according to specifications.

**Incompatible materials:** Oxidizing agents

**Decomposition products:** Metal Oxide Fume

## Section 11: Toxicological Information

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**General Information:** The Registry of Toxic Effects Chemical Substances (RTECS) contains acute toxicity data for components in this product. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

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

## Section 12: Ecological Information

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**General information:** Product not tested.

**Aquatic toxicity:** No specific data available. Do not allow large quantities of product to reach water, ground water, water courses or sewer systems.

**Degradation / Mobility info:** No specific data available.

**Bioaccumulative potential:** No specific data available.

**Section 13: Disposal Information**

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**Product disposal:** Dispose of product in accordance with local, regional, and national regulations. Burn in an incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Consult with a licensed professional waste contractor to dispose of this material.

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

**Other considerations:** No further information.

**Section 14: Transport Information**

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**DOT:** UN Number: 3089    Class: 4.1    Packing Group: II  
 Proper Shipping Name: Metal powders, flammable, n.o.s.  
 Marine Pollutant: No  
 Poison Inhalation hazard: No

**IMO/IMDG:** UN Number: 3089    Class: 4.1    Packing Group: II    EMS-No: F-G, S-G  
 Proper Shipping Name: Metal powders, flammable, n.o.s.  
 Marine Pollutant: No

**IATA:** UN Number: 3089    Class: 4.1    Packing Group: II  
 Proper Shipping Name: Metal powders, flammable, n.o.s.

**OTHER:** Inquire for further transport information.

**Section 15: Regulatory Information**

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**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 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:**

**California Prop. 65 Components:** This product is not listed.

**Canadian DSL:** All ingredients of this product comply with New Substances Notification requirements of the Canadian Environmental Protection Act (CEPA). 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.

**Section 16: Other Information**

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**NFPA Rating**

Health: 1  
 Fire: 2  
 Reactivity: 1

**HMIS Rating**

Health: 1  
 Fire: 2  
 Reactivity: 1

**Precautionary Label:** Flammable    Flammable Solid

**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:** John Kerchner

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