

## Safety Data Sheet

### 29 CFR 1910.1200

#### Section 1: Company and Product Identification

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**Product Name:** Tetraamminepalladium (II) Sulfate

**Product Code:** 5077

**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  
 Chemtec: 800-424-9300  
 World Wide - Call COLLECT to U.S: 703-527-3887

#### Section 2: Hazards Identification

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**Hazard Pictograms:**



**Signal Word:** Warning

**Hazard Category:** Serious eye damage/eye irritation Cat 3  
 Skin corrosion/irritation Cat 2

**Hazard Statements:** H320: Causes eye irritation  
 H315: Causes skin irritation

**Precautionary Statements:** P202: Do not handle until all safety precautions have been read and understood  
 P264: Wash thoroughly after handling  
 P281: Use personal protective equipment as required  
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
 P501: Dispose of contents/container in accordance with local/regional/national/international rules.

**Hazards not otherwise classified:** To the best of our knowledge the chemical, physical, and toxicological properties have not been thoroughly investigated. Avoid elevated temperatures. Product incompatible with reducing agents and organic materials. May decompose sulfur dioxide, sulfur trioxide vapors. CORROSIVE - Avoid contact with skin and clothing

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

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Hazardous substance (name)	Hazard Category	CAS#	Weight %
Tetraamminepalladium (II) Sulfate	Not Classified	13601-06-1	85 - 90
<b>Chemical Family:</b> Platinum Group Metal			

**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:** 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 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. Note To Physician, Treat symptomatic symptoms

**Section 5: 5. Fire Fighting Measures**

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**General Info:** Use proper safety equipment. Can decompose to emit toxic fumes.

**Extinguishing Method / Equipment:** Product is not flammable. Use fire-fighting measures that suit surrounding fire.

**Hazardous Decomposition Info:** (Nox), Sulfur Oxides (SOx) If this product is involved in a fire, the following can be released: Metal oxide fume, Nitrogen Oxides

**Section 6: 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:** **Spills:** Contain actively spilling material if safe and easy to do so, avoid generating dust. Have emergency response team respond. Avoid inhalation, ingestion, and contact with skin and eyes. Person protected with full face shield and proper respirator.

**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 breathing dust/vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment and wash thoroughly after handling.

**Recommendations for Storage:** Store in cool, dry area in a sealed container, plastic or plastic liner, in a cool, well ventilated, dry area away from volatile acids.

**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  
Mechanical: Desirable to insure concentration of material below TLV/TWA levels  
Other: Closed Ventilation system with corrosive-resistant materials

**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:** Use suitable respirator when high concentrations are present.

**Section 9: Physical and Chemical Properties**

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<b>State:</b> Crystalline	<b>Melting Point:</b> N/A	<b>Freezing Point:</b> N/A
<b>Color:</b> Clear Yellow	<b>Boiling Point/Range:</b> N/A	<b>pH:</b> N/A
<b>Molecular Wt.:</b> N/A	<b>Odor:</b> Ammonia Odor	<b>Water Solubility:</b> Not Determined
<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:** 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.
- Incompatible materials:** Oxidizing Agents
- Decomposition products:** Metal Oxide fumes, Nitrogen Oxides

**Section 11: Toxicological Information**

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- General Information:** To the best of our knowledge the chemical, physical, and toxicological properties of this compound have not been thoroughly investigated and the acute and chronic toxicity of this substance is not fully known.
- Toxicological Information (product):** No effects known - May cause eye or skin irritation.
- Likely Routes of Exposure:** Eye Contact  
Skin Contact  
Inhalation  
Ingestion - possible, but considered unlikely.
- Carcinogenicity or mutagenicity:** No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
- Sensitization:** Product is not expected to be a sensitizer.
- Other Notes:** Palladium has caused bone marrow, liver and kidney damage in experimental animals. Other animal experiments indicate that it may interfere with the use of energy by nerves and muscles, induce lung malfunctions and produce abnormal fetuses.

**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:** Consult Federal EPA, State and local regulations for proper disposal/recycle/reclamation
- Container disposal:** Treat empty containers with extra care. Consult waste contractor.

**Section 14: Transport Information**

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- DOT:** Non-Hazardous for Shipping
- IMO/IMDG:** See regulation for information
- IATA:** See regulation for information
- Comments:** Not a Hazardous Material for shipping

**Section 15: Regulatory Information**

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

**Canadian DSL:** This information and 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)** Substance is not listed

**Regulatory  
Information:**

**Section 16: Other Information**

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**NFPA Rating**

Health: 1  
Fire: 0  
Reactivity: 1

**HMIS Rating**

Health: 1  
Fire: 0  
Reactivity: 1  
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.

**Version Date:**

6/15/2015