

## Safety Data Sheet

### 29 CFR 1910.1200

#### Section 1: Company and Product Identification

**Product Name:** Bis(benzonitrile)palladium(II) chloride

**Product Code:** 5050

**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

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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, oral Cat 5  
 Acute tox, inh. Cat 5

**Hazard Statements:** H320: Causes eye irritation  
 H316: Causes mild skin irritation  
 H303: May be harmful if swallowed  
 H333: May be harmful if inhaled

**Precautionary Statements:** P202: Do not handle until all safety precautions have been read and understood  
 P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking  
 P264: Wash thoroughly after handling  
 P280: Wear protective gloves/protective clothing/eye protection/face protection  
 P308+313: IF exposed or concerned: Get medical advice/attention  
 P402+404: Store in a dry place. Store in a closed container  
 P501: Dispose of contents/container in accordance with local/national/international rules.

**Hazards not otherwise classified:** This products contains no hazardous ingredients when evaluated by criteria established in the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Bis(benzonitrile)palladium(II) chloride	Irritant	14220-64-5	0 - 99
<b>Chemical Name:</b> Bis(benzonitrile)palladium(II) chloride <b>Chemical Family:</b> Organometallic Complex <b>Chemical Formula:</b> C <sub>14</sub> H <sub>10</sub> Cl <sub>2</sub> N <sub>2</sub> Pd <b>Synonyms:</b> Palladium(II) chloride bis(benzonitrile) complex			

**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.

**Section 5: Fire Fighting Measures**

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**General Info:** Use proper Safety Equipment

**Extinguishing Method / Equipment:** In case of fire, use water fog, dry chemical, CO<sub>2</sub>, or "alcohol" foam.

**Hazardous Decomposition Info:** May decompose to emit toxic carbon monoxide and carbon dioxide. 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:** Contain actively spilling material if safe and easy to do so, avoid generating dust. Collect material and dispose. Wash 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 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 tightly closed product container.

**Incompatibilities:** Strong oxidizing agents

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

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**General / Local Exhaust:** Required in handling area

**Engineering Controls:** **Mechanical:** 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:** None normally required.

**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**

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State: Solid	Melting Point: 268 °F 131 °C	Freezing Point: N/A
Color: N/A	Boiling Point/Range: N/A	pH N/A
Molecular Wt. 383.57	Odor: None	Water Solubility: N/A
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 Pressure: N/A
VOC Content (lbs/gal): N/A	Viscosity: N/A	Autoignition Temp: 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:** Mixing with oxidizing agents

**Decomposition products:** Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas

**Section 11: Toxicological Information**

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**General Information:** No data available

**Section 12: Ecological Information**

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**General information:** Product not tested. 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. Consult with waste contractor.

**Other considerations:** NOTE: Chemical additions, processing, or otherwise altering this material may make the waste management information presented above incomplete, inaccurate, or otherwise inappropriate

**Section 14: Transport Information**

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**DOT:** None, considered non-hazardous for transport

**IATA/IMO/IMDG:** Non-Hazardous

**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

**Section 16: Other Information**

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**NFPA Rating**

Health: 0  
Fire: 0  
Reactivity: 0

**HMIS Rating**

Health: 0  
Fire: 0  
Reactivity: 0  
Personal Protection: B

**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