

CMI Product #6015

**Safety Data Sheet**  
29 CFR 1910.1200

**Section 1: Company and Product Identification****Product Name:** Diamminedinitrito Platinum (II) in NH4OH**Product Code:** 6015**CAS #:** 1336-21-6/14286-02-3

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

**Section 2: Hazards Identification**

GHS05

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**Hazard Pictograms:****Signal Word:**

Danger

**Hazard Category:**

Skin corrosion/irritation Cat 1  
Serious eye damage/eye irritation Cat 1  
Hazard to aquatic environment, acute Cat 2  
Hazard to aquatic environment, chronic Cat 3

**Hazard Statements:**

H314: Causes severe skin burns and eye damage  
H318: Causes serious eye damage  
H401: Toxic to aquatic life  
H412: Harmful to aquatic life with long lasting effects

**Precautionary Statements:**

P264: Wash thoroughly after handling  
P273: Avoid release to the environment  
P270: Do not eat, drink or smoke when using this product  
P271: Use only outdoors or in a well-ventilated area  
P280: Wear protective gloves/protective clothing/eye protection/face protection  
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or  
P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
P363: Wash contaminated clothing before reuse  
P405: Store locked up  
P501: Dispose of contents/container in accordance with local/regional/national/international rules.

**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. Asthma attacks may occur upon the minutest reexposure to the substance. Any respiratory condition such as asthma, may lead to platinosis from platinum compounds

Conditions Aggravated By Overexposure:

To the best of our knowledge, the chemical, physical, and toxicological properties of this compound have not been thoroughly investigated.

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

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Diamminedinitrito Platinum (II) in NH <sub>4</sub> OH	<b>OSHA Hazards:</b> Acute Tox.4; Skin Corr. 1B; Eye Dam.1; Aquatic Acute1; Aquatic Chronic2; H302, H314, H400, H411	1336-21-6	100
<b>Product Name:</b> Diamminedinitrito Platinum (II) in NH <sub>4</sub> OH <b>Chemical Name:</b> Platinum Group Metal <b>Chemical Formula:</b> H <sub>6</sub> N <sub>4</sub> O <sub>4</sub> Pt			

**Section 4: First Aid Measures**

- General Info:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area
- 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**

- General Info:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Emits toxic fumes under fire conditions
- Extinguishing Method / Equipment:** For small (incipient) fires, use water or other media such as alcohol-resistant foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective.
- Hazardous Decomposition Info:** Constituents associated with burning / combustion are to be considered toxic. Firefighters should wear self-contained breathing apparatus and full protective gear. Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing

**Section 6: Accidental Release Measures**

- Personal precautions, protective equipment and procedures:** Evacuate area immediately. When cleaning up wear SCBA, rubber boots, and heavy rubber gloves. 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/vapors. 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. Sweep up and place in a sealed container. Wash spill area after pick up is completed. Collect material and dispose
- 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**

- 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** Store in cool, dry area in a tightly closed product container in a dry cool place. this product is light and  
**for Storage:** moisture sensitive. Store away from sources of ignition or flame.

**Incompatibilities:** Reducing Agents

**Other Precautions:** .01 ppm high efficiency particular respirator/supplied air respirator/self-contained breathing apparatus; 0.2 ppm same as above with full face piece; 1 ppm 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.

**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 with corrosive resistant materials

Safety shower and eyewash

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

**Eye/face** Wear safety glasses with side shields or goggles or face shield.

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

**Respiratory** Where risk assessment shows air-purifying respirators are appropriate use full-face particle respirator type

**Protection:** N(( US) or type 92 (EN 143) respirator cartridges as a back up to engineering controls. If the respirators 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:	Component	CAS Number	Value	Control Parameters	Basis
	Ammonium hydroxide	1336-21-6	TWA	0.0025 mg/m3	USA. Occupational Exposure Limits (ACGIH/NIOSH) - TLV
			STEL	0.0035 mg/m3	USA. Occupational Exposure Limits (ACGIH) - TLV
			TWA	0.0025 mg/m3	USA. ACGIH Threshold Limit Values (TLV)

**Section 9: Physical and Chemical Properties**

<b>State:</b> Liquid	<b>Melting Point:</b> N/A	<b>Freezing Point:</b> N/A
<b>Color:</b> N/A	<b>Boiling Point/Range:</b> N/A	<b>pH:</b> N/A
<b>Molecular Wt.:</b> N/A	<b>Odor:</b> N/A	<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>Specific Gravity:</b> N/A	<b>Autoignition Temp:</b> N/A

**Section 10: Stability and Reactivity**

**General:** Stable under recommended storage conditions

**Incompatible materials:** Strong oxidizing agents

**Decomposition products:** Hazardous decomposition products formed under fire conditions. - Nitrogen Oxides (Nox)

**Section 11: Toxicological Information**

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

**Toxicological Acute Toxicity Information (product):** No data available  
**Remarks:** None

**Skin Corrosion / Irritation**  
 No data available

**Serious Eye Damage/ Eye Irritation**  
 No data Available

**Respiratory or skin sensitization**  
 No data available.

**Germ Cell Mutagenicity**  
 No data available  
**Carcinogenicity: no data available**  
 Tumorigenic: No data available Other: None known  
 Tumorigenic: No data available

**Possible human carcinogen**

**IARC:** 2A - Group 2A: Probably carcinogenic to humans (Cisplatin)

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:** Reasonably anticipated to be a human carcinogen (Cisplatin)

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive Toxicity**  
 No data available

**Specific target organ toxicity – single exposure (GHS)**  
 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.

**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. Consult with waste contractor.

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

**Other considerations:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. 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:** Not Dangerous goods

**IMDG** Not dangerous goods

**IATA:** Not dangerous goods

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

**Section 15: Regulatory Information**

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**TSCA/SARA: SARA 302:** This material does not contain any chemical components SARA Title III, Section 302 reporting requirements.

**SARA 313:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** Acute Health Hazard

**States Right to Know:** **Massachusetts Right To Know Components:** Ammonium hydroxide, CAS#1336-21-6, Rev. Date: 2007-03-01

**Pennsylvania Right To Know Components:** diammineplatinum(II) nitrite, CAS#: 14286-02-3, Ammonium hydroxide, CAS#1336-21-6, Rev. Date: 2007-03-01

**New Jersey Right To Know Components:** diammineplatinum(II) nitrite, CAS#: 14286-02-3, Ammonium hydroxide, CAS#1336-21-6, Rev. Date: 2007-03-01

**California Prop. 65 Components:** WARNING! This product does not contain any chemical(s) known to the State of California to cause cancer, birth defect or any other reproductive defect

**OTHER:** All information included is believed to be correct but no claims are made that it is all inclusive. Use this information only as a guide. The information in this document is based on our current information and knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product Colonial Metals, Inc. does not accept nor shall we be held liable for any damage resulting from handling or from contact with this or any of our products.

**Section 16: Other Information**

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**NFPA Rating**

Health: 3  
Fire: 0  
Reactivity: 0  
Poison

**HMIS Rating**

Health: 3  
Fire: 0  
Reactivity: 0  
Personal  
Protection: J

**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 believed to be correct; however, you (the customer), should perform 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:** Dr. Ernest Addo

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