

CMI Product #6018

**Safety Data Sheet**  
29 CFR 1910.1200

**Section 1: Company and Product Identification**


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**Product Name:** Dihydrogen Hexahydroxyplatinum (IV)

**Product Code:** 6018

**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:**

Acute tox, oral Cat 5  
Acute tox, inh. Cat 5  
Acute tox, dermal Cat 4  
Skin corrosion/irritation Cat 2  
Serious eye damage/eye irritation Cat 3  
Specific target organ tox, single exp. Cat 3 (resp irrit)

**Hazard Statements:**

H303: May be harmful if swallowed  
H333: May be harmful if inhaled  
H312: Harmful in contact with skin  
H315: Causes skin irritation  
H320: Causes eye irritation  
H335: May cause respiratory irritation

**Precautionary Statements:**

P261: Avoid breathing dust/fume/gas/mist/vapors/spray  
P264: Wash thoroughly after handling  
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  
P302+352: IF ON SKIN: Wash with soap and water  
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  
P312: Call a POISON CENTER or doctor/physician if you feel unwell  
P330: Rinse mouth  
P332+313: If skin irritation occurs: Get medical advice/attention  
P337+313: If eye irritation persists get medical advice/attention  
P361: Remove/Take off immediately all contaminated clothing  
P403+233: Store in a well ventilated place. Keep container tightly closed  
P405: Store locked up  
P501: Dispose of contents/container in accordance with local/regional/national/international rules.

**Hazards not** Conditions Aggravated By Exposure**otherwise** May cause irritation of the respiratory system. Maintain housekeeping and personal hygiene to minimize**classified:** 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 compoundsConditions 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 %
Dihydrogen Hexahydroxyplatinum (IV)	Irritant	51850-20-5	0 - 99
<b>Synonyms:</b> Dihydrogen Hexahydroxyplatinum (IV)			
<b>Chemical Name:</b> Dihydrogen Hexahydroxyplatinum (IV)			
<b>Chemical Family:</b> Inorganic Compound			
<b>Chemical Formula:</b> H2Pt(OH)6			

**Section 4: First Aid Measures****General Info:** When consulting a physician, Show this safety data sheet to the doctor in attendance. Move out of**Notable Exposure** 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 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: 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 /** Water spray, carbon dioxide, dry chemical powder or appropriate foam**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: 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**

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**Safe Handling** Do not handle until all safety precautions have been read and understood. Keep containers tightly closed

**Precautions:** 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 in a dry cool place. Store under nitrogen away from sources of ignition or flame.

**Incompatibilities:** This product is moisture sensitive. Store under nitrogen

**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**

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

**Engineering Controls:** 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 Protection:** Where risk assessment shows air-purifying respirators are appropriate use full-face particle respirator type 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).

**Section 9: Physical and Chemical Properties**

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<b>State:</b> Solid	<b>Melting Point:</b> N/A	<b>Freezing Point:</b> N/A
<b>Color:</b> Yellow Powder	<b>Boiling Point/Range:</b> N/A	<b>pH:</b> N/A
<b>Molecular Wt.</b> 299.15	<b>Odor:</b> none	<b>Water Solubility:</b> soluble
<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**

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**General: Conditions To Avoid (Stability)**

May decompose on exposure to moist air or water.

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:** Strong oxidizing agents

**Decomposition products:** Nature of decomposition products is not known.

**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 Information (product):** 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**

**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**

**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**

**DOT: Proper Shipping Name:**

Non-Hazardous

**IATA:** Same as DOT 49 CFR. Consult IATA regulation before shipping

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

**Comments:** None

**Section 15: Regulatory Information**

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

**Canadian Regulatory Information:** This product has been classified in accordance with the hazard criteria of CPR, and the MSDS contains all the information required by the CPR.

**Information:** DSL: No  
NDSL: No

**European Union (EU) Regulatory Information:** **Symbol of Danger:** Xn  
**Indication of Danger:** Harmful

**R:** 20-36/37/38

**Risk Statements:** Harmful by inhalation. Irritating to eyes, respiratory system and skin.

**S:** 22-26-36/37/39-38

**Safety statements:** Do not breathe dust. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of insufficient ventilation, wear suitable respiratory equipment.

**Section 16: Other Information****NFPA Rating**

Health: 3  
Fire: 0  
Reactivity: 0

**HMIS Rating**

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

**Addition Labeling:** Irritant

**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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