

## Safety Data Sheet

### 29 CFR 1910.1200

#### Section 1: Company and Product Identification

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**Product Name:** Sodium hexachloroplatinate(IV) hexahydrate

**Product Code:** 6025

**CAS #:** 19583-77-8

**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 Supplier Emergency Contacts & Phone Number**

**Response:** Chemtrec: 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  
 Specific target organ tox, single exp. Cat 3 (resp irrit)  
 Aspiration hazard Cat 2  
 Skin corrosion/irritation Cat 2  
 Serious eye damage/eye irritation Cat 2

**Hazard Statements:** H303: May be harmful if swallowed  
 H335: May cause respiratory irritation  
 H305: May be harmful if swallowed and enters airways  
 H315: Causes skin irritation  
 H319: Causes serious eye irritation

**Precautionary Statements:** P231: Handle under inert gas  
 P262: Do not get in eyes, on skin, or on clothing  
 P280: Wear protective gloves/protective clothing/eye protection/face protection  
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
 P403+233: Store in a well ventilated place. Keep container tightly closed  
 P301+310: IF SWALLOWED: Immediately call a POISON CENTER or  
 P405: Store locked up  
 P501: Dispose of contents/container in accordance with local/regional/national/international rules.

#### **Hazards not Conditions Aggravated By Exposure**

**otherwise** Can cause severe irritation of the respiratory system. Maintain housekeeping and personal hygiene to  
**classified:** minimize exposure and prevent sensitization.

#### **Conditions Aggravated By Overexposure**

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

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

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Sodium hexachloroplatinate(IV) hexahydrate	Irritant	19583-77-8	100
<b>Chemical Name:</b> Sodium hexachloroplatinate(IV) hexahydrate			
<b>Chemical Formula:</b> Na <sub>2</sub> PtCl <sub>6</sub> ·6H <sub>2</sub> O			

**Section 4: First Aid Measures**

**General Info:** When consulting a physician, Show this safety data sheet to the doctor in attendance.

**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.

**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:** Platinum compounds, especially platinum halogen complexes are sensitizers. Sensitized persons, on re-exposure to platinum salts, will show the clinical features of Type 1 allergy: asthma and/or rhinitis and/or conjunctivitis and/or urticarial. A contact dermatitis may also occur. The symptoms of the allergic reaction to platinum salts may include any of the following: itchy red eyes, watering of the eyes, sneezing, runny nose, chest tightness, wheezing, breathlessness, cough, eczematous or urticarial (nettle rash type) skin lesions. Exposure to platinum salts in exceedingly small amounts, even below the level of physic-chemical detection, will produce symptoms in sensitized persons. Continued exposure will give symptoms of increasing severity and can eventually lead to chronic asthma. There is a risk of anaphylactic shock occurring in sensitized persons re-encountering platinum salts. Therefore, if sensitization has developed, further exposure to platinum compounds must not be permitted.

**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

**Fire And Explosion Hazards:** Product is not flammable. If this product is involved in a fire, the following can be released: chlorine

**Extinguishing Method /** Use water spray to cool unopened containers.

**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:** 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:** **Spills:** Contain actively spilling material if safe and easy to do so, avoid generating dust. Personnel to be protected with full face shield and proper respirator. Collect material and dispose . Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil.

**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

**Precautions:** 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 sealed container, plastic or plastic liner, in

**for Storage:** a cool, well ventilated, dry area.

**Incompatibilities:** Store away from organics and solvents. Refer to Section 10.

**Other Precautions:** 0.01 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** Mechanical: Desirable to insure concentration of material below TLV/TWA levels

**Controls:** Other: Closed ventilation system with corrosive resistant materials

**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:** Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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

**Protection:** 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).

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

**Information:** facilities for washing

**Section 9: Physical and Chemical Properties**

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<b>State:</b> Powder	<b>Melting Point:</b> N/A	<b>Freezing Point:</b> N/A
<b>Color:</b> Orange	<b>Boiling Point/Range:</b> Not Determined	<b>pH</b> N/A
<b>Molecular Wt.</b> N/A	<b>Odor:</b> Not Determined	<b>Water Solubility:</b> Insoluble
<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> Not Determined	<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:** Strong oxidizing agents

**Decomposition products:** Hazardous decomposition products formed under fire conditions. – Metal oxide fumes, Sodium Oxide

**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

**Carcinogenicity or mutagenicity:** No data available

**Sensitization:** Platinum salts, especially ionic platinum halogeno complexes, may cause severe allergic reactions

**Section 12: Ecological Information**

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**General** Product not tested.

**information:**

**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: Proper Shipping Name:** Sodium Hexahydroxy Platinate (IV) Considered Non-Hazardous for

**IMDG:** Same as DOT. Always consult IATA manual before shipping

**IATA:** Same as DOT. Always consult IATA manual before shipping

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

**Section 15: Regulatory Information**

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**TSCA:** This chemical is not TSCA listed/registered.

**SARA: Section 313 Notification**

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

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

**Right to Know Componentets:** Massachusetts Right To Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components: Sodium hexachloroplatinate(IV) hexahydrate Revision Date:  
New Jersey Right To Know Components: Sodium hexachloroplatinate(IV) hexahydrate , Revision Date:  
California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Section 16: Other Information**

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<u>NFPA Rating</u>	<u>HMIS Rating</u>	<u>Precautionary Label</u>
Health: 4	Health: 4	Irritant
Fire: 0	Fire: 0	
Reactivity: 0	Reactivity: 0	

**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.

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