

Safety Data Sheet
29 CFR 1910.1200

Section 1: Company and Product Identification

Product Name: Tetraammineplatinum (II) Hydroxide Hydrate

Product Code: 6052

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
Supplier Emergency Contacts & Phone Number



www.colonialmetals.com

Emergency Response: Chemtrec: 800-424-9300
World Wide - Call COLLECT to U.S: 703-527-3887

Section 2: Hazards Identification

GHS07 BLANK BLANK BLANK

Hazard Pictograms:

Signal Word:

Warning

Hazard Category:

Acute tox, oral Cat 5
Acute tox, inh. Cat 5
Acute tox, dermal Cat 5
Skin corrosion/irritation Cat 3
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
H313: May be harmful in contact with skin
H316: Causes mild 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
P501: Dispose of contents/container in accordance with local/regional/national/international rules.

Hazards not otherwise classified:

Medical Conditions Aggravated by Long-Term Exposure: Persons with a history of allergic disease, such as asthma or hay fever, should not work with Pt salts. A history of cardiac or pulmonary disease may also preclude work with Pt salts....medical opinion should be sought. Any workers experiencing effects or symptoms should be removed for exposure and medically examined for Pt sensitization.

Section 3: Composition / Information on Ingredients

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Tetraammineplatinum (II) Hydroxide Hydrate	Irritant	15651-37-3	99.9
Chemical Name: Tetraammineplatinum (II) Hydroxide; Platinum (II), Tetraaminedihydroxide CAS Number: 15651-37-3 Chemical Family: Platinum Group Metal Salts Chemical Formula: (NH ₃) ₄ Pt(OH) ₂			

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 Conditions Aggravated By Exposure: Irritation to skin, eyes and areas of contact.

symptoms: May cause irritation of the respiratory system. Maintain housekeeping and personal hygiene to minimize exposure and prevent sensitization.

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.

Section 5: Fire Fighting Measures

General Info: Use proper safety equipment. Can decompose to emit toxic fumes of ammonia and chlorine. Decomposes at 250°C (482°F), emitting ammonia and chlorine fumes. Decomposition leaves residues which may catalyze ignition of flammable gases and vapors.

Extinguishing Method / Use water spray, foam, dry chemical, carbon dioxide or medium for primary source.

Hazardous Decomposition Constituents associated with burning / combustion are to be considered toxic. Firefighters should wear self-contained breathing apparatus and full protective gear.

Info: In case of fire, can decompose to emit toxic gases when exposed to high heat or flames.

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/vapor. 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: Neutralize with dilute HCl solution, soak up and place in sealed container. Person protected with full face shield and proper respirator for ammonia vapor and dust/mist/fume. Ventilate and wash spill site after clean up is complete.

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

Recommendations for Storage: Keep in a cool, dry well ventilated place away from incompatible materials and conditions. Use proper labeling in accordance with 29 CFR 1910.1200.

Incompatibilities: Mixing with mineral acids and strong reducing agents. Refer to Section 10.

Section 8: Exposure Control / Personal Protection

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 (Laboratory fume hood)

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

State: Solid/Crystals	Melting Point: 250 °C	Freezing Point: N/A
Color: White Crystals or powder	Boiling Point/Range: N/A	pH: N/A
Molecular Wt. 297.23	Odor: Slight NH3 odor	Water Solubility: Soluble
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	Specific Gravity: -3	Autoignition Temp: N/A

Section 10: Stability and Reactivity

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: Active metals

Decomposition products: Ammonia, nitrogen oxides, and platinum oxides

Section 11: Toxicological Information

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): Product has not been tested. Prolonged inhalation may be harmful to human health. Irritating in case of skin or eye contact. May be harmful if swallowed or in contact with skin.

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.

Section 13: Disposal Information

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

DOT: Proper Shipping Name
 Non-Hazardous

IATA: IATA: Same as DOT regulation. Consult regulation before shipping.

Section 15: Regulatory Information

TSCA: This product is TSCA listed.

SARA Section 313 This product does not require reporting under SARA Section 313.

Notification

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

Information:

Section 16: Other Information

NFPA Rating

Health: 2
Fire: 0
Reactivity: 0

HMIS Rating

Health: 2
Fire: 0
Reactivity: 0
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.

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