

Safety Data Sheet
29 CFR 1910.1200

Section 1: Company and Product Identification

Product Name: Platinum (IV) Chloride

Product Code: 6004

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:

Acute tox, oral Cat 5
Specific target organ tox, single exp. Cat 3 (resp irrit)
Sensitization, resp. Cat 1
Skin corrosion/irritation Cat 2
Serious eye damage/eye irritation Cat 3
Acute tox, inh. Cat 5
Sensitization, resp. Cat 1

Hazard Statements:

H303: May be harmful if swallowed
H335: May cause respiratory irritation
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
H315: Causes skin irritation
H320: Causes eye irritation
H333: May be harmful if inhaled
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled

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
P342+311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
P280: Wear protective gloves/protective clothing/eye protection/face protection
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
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: Exposure to platinum salts has been shown to cause wheezing, coughing, shortness of breath and running of the nose. Harmful if swallowed. Cause burns. Skin contact can lead to dermatitis.

Section 3: Composition / Information on Ingredients

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Platinum (IV) Chloride	Irritant	13454-96-1	>99
Chemical Name: Platinic Chloride, Tetrachloroplatinum, Platinum Tetrachloride Chemical Family: Metal Halide Chemical Formula: PtCl ₄			

Section 4: First Aid Measures

Notable Exposure symptoms: Irritation to skin, eyes and areas of contact.

If ingested: Not expected to be a problem in industry. However if swallowed and discomfort occurs, contact a physician.

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: Flush for 15 minutes with plenty of water. If discomfort occurs or persists, contact a physician

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

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

Info: 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: Soak up and place in sealed container. Person protected with full face shield and proper respirator for chlorine vapor and dust. Ventilate area and wash spill site after pickup is complete.

Section 7: Handling and Storage

Safe Handling Precautions: Avoid contact with eyes, prolonged or repeated contact with skin. Avoid breathing dust. Use compatible chemical-resistant gloves. Wash hands thoroughly after handling

Recommendations for Storage: Store in cool, dry area in a tightly closed product container away from sources of ignition or flame.

Incompatibilities: Oxidizing agents and active metals. Refer to Section 10.

Section 8: Exposure Control / Personal Protection

General / Ventilation: Local Exhaust: Required in handling area

Engineering Controls: Mechanical: Desirable to insure concentration of material below TLV/TWA levels

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 protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection: Rubber/Neoprene (use compatible chemical-resistant gloves).

Respiratory Protection: Chemical cartridge respiratory for dust/mist/fume/radionuclide or self-contained breathing apparatus with full face shield.

Section 9: Physical and Chemical Properties

State: Solid, very hygroscopic crystals	Melting Point: 370°C (decomposes)	Freezing Point: N/A
Color: Red-brown	Boiling Point/Range: N/A	pH: 5-6
Molecular Wt.: 336.9	Odor: Odorless	Water Solubility: Insoluble (Water)
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: 4.303	Packing Density: 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: Mixing with reducing agents & oxidizing agents

Decomposition products: Chloroplatinic Acid, platinum dichloride, hydrogen chloride, chlorine

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): No data available

Section 12: Ecological Information

General information: Product not tested.

Section 13: Disposal Information

Product disposal: Dispose of product in accordance with local, regional, and national regulations. Consult with waste contractor. NOTE: Chemical additions, processing, or otherwise altering this material may make the waste management information presented above incomplete, inaccurate, or otherwise inappropriate

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

Section 14: Transport Information

DOT: Proper Shipping Name
CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
Hazard Class
8
DOT Identification Number
3260
DOT Shipping Label
CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
Packaging Requirements
PG III

Section 15: Regulatory Information

TSCA: Listed in TSCA inventory

SARA Components: 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).

European Union (EU) Regulatory Information: R36/37/38 - Irritating to eyes, respiratory system and skin
S22 - Do not breathe dust

Section 15: Other Information

NFPA Rating

Health: 2
Fire: 0
Reactivity: 0

HMIS Rating

Health: 2
Fire: 0
Reactivity: 0
Personal
Protection: C

***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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