

Safety Data Sheet
29 CFR 1910.1200

Section 1: Company and Product Identification

Product Name: Platinum(II) chloride

Product Code: 6003

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

Hazard Pictograms:

Signal Word:

Danger

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 1
Serious eye damage/eye irritation Cat 1
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
H314: Causes severe skin burns and eye damage
H318: Causes serious eye damage
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
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 OSHA Hazards: Corrosive

otherwise Conditions Aggravated By Exposure: Any respiratory conditions such as asthma classified:

Section 3: Composition / Information on Ingredients

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Platinum(II) chloride	Corrosive	10025-65-7	>99
Chemical Name: Platinum Chloride, Platinous Chloride Chemical Name: Platinum Chloride, Platinous Chloride Chemical Family: Platinum Group Metal Salts Chemical Formula: PtCl 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 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: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital

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.

Procedures:

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

Incompatibilities: Mixing with reducing agents & oxidizing agents. Refer to Section 10.

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 Controls: Mechanical: Desirable to insure concentration of material below TLV/TWA levels
 Other: Closed ventilation system with corrosive resistant materials

Controls: 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: 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 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).

Additional Hand protection:

Information: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Immersion protection:
 Material: Nitrile rubber
 Minimum layer thickness: 0.11 mm

Splash protection:
 Material: Nitrile rubber
 Minimum layer thickness: 0.11 mm

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Section 9: Physical and Chemical Properties

State: Solid	Melting Point: 1078 °F (decomposes) 581 °C (decomposes)	Freezing Point: N/A
Color: Grayish Green to Black	Boiling Point/Range: N/A	pH 5-6
Molecular Wt. 266	Odor: Pungent Odor	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: 6	Packing Density: 5.87 g/cm3 @ 25C (77F)

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: Hydrogen Chloride Gas

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):
Oral LD50
 LD50 Oral - rat - 3,423 mg/kg

Skin corrosion/irritation
 Skin - rabbit - Mild skin irritation - 24 h

May cause allergic respiratory and skin reactions
 Germ cell mutagenicity

Genotoxicity in vitro - Human - lymphocyte
 DNA inhibition

Genotoxicity in vitro - Hamster - Embryo
 Morphological transformation.

Likely Routes of Exposure:
 Eye Contact
 Skin Contact
 Inhalation
 Ingestion - possible, but considered unlikely.

Conditions Aggravated By ExposureSigns and Symptoms of Exposure

Cough, Shortness of breath, Headache, Nausea, Vomiting, Material is extremely destructive to tissue of the Mucous membranes and upper respiratory tract, eyes, and skin., Dermatitis, Asthma.

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.

RCRA Information

Waste solutions may meet the RCRA Corrosive characteristic

Section 14: Transport Information

DOT: Proper Shipping Name

CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Platinum dichloride)

Hazard Class

8

DOT Identification Number

3260

DOT Shipping Label

CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Platinum dichloride)

Packaging Requirements

PG III

IMDG: UN number: 3260 Class: 8 Packing group: III EMS-No: F-A, S-B
Proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Platinum dichloride)
IATA: UN number: 3260 Class: 8 Packing group: III
Proper shipping name: Corrosive solid, acidic, inorganic, n.o.s. (Platinum dichloride)

Section 15: Regulatory Information

OSHA Hazards: Corrosive
TSCA: This chemical is not TSCA registered. For R&D use only
SARA SARA 302 Components:
Components: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA Hazard Classes
 Acute Health Hazard
SARA Section 313 Notification
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, Se
Right to Know: State Regulations:
Massachusetts Right To Know Components:
 Platinum dichloride CAS-No. 10025-65-7
Pennsylvania Right To Know Components:
 Platinum dichloride CAS-No. 10025-65-7
New Jersey Right To Know Components:
 Platinum dichloride CAS-No. 10025-65-7
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.
Canadian Class E - Corrosive Material
Regulatory Information:
European Union (EU) Regulatory Information:
R20/21/22 - Harmful by inhalation, in contact with skin, and if swallowed
R36 - Irritating to eyes
S23 - Do not breathe gas/fumes/vapor/spray.
S24/25 - Avoid contact with skin and eyes
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S28 - After contact with skin, wash immediately with plenty of water/soap
S36/37/39 - Wear suitable protective clothing, gloves, and eye/face protection

Section 16: Other Information

<u>NFPA Rating</u>	<u>HMIS Rating</u>	<u>Precautionary Label</u>
Health: 2	Health: 2	Corrosive and Irritant
Fire: 0	Fire: 0	
Reactivity: 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 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: John Kerchner **Version Date:** 7/27/2015