

CMI Product #6014

Safety Data Sheet
29 CFR 1910.1200

Section 1: Company and Product Identification**Product Name:** cis-Diamminedichloro Platinum (II)**Product Code:** 6014

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

GHS06

GHS05

GHS08

BLANK

Hazard Pictograms:**Signal Word:**

Danger

Hazard Category:

Acute tox, oral Cat 1/2
Acute tox, inh. Cat 4
Acute tox, dermal Cat 4
Skin corrosion/irritation Cat 2
Serious eye damage/eye irritation Cat 1
Specific target organ tox, single exp. Cat 3 (resp irrit)
Carcinogenicity Cat 1

Hazard Statements:

H300: Fatal if swallowed
H332: Harmful if inhaled
H312: Harmful in contact with skin
H315: Causes skin irritation
H318: Causes serious eye damage
H335: May cause respiratory irritation
H350: May cause cancer

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 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 compounds

classified: Conditions 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 %
cis-Diamminedichloro Platinum (II)	OSHA Hazards: Carcinogen, Poison	15663-27-1	100
Product Name: cis-Diamminedichloro Platinum (II) Chemical Name: cis-Diamminedichloro Platinum (II) Chemical Formula: cis-(NH ₃) ₂ 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 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: 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 For small (incipient) fires, use water or other media such as alcohol-resistant foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water

Method / Equipment: applied as a mist or spray; solid streams of water may be ineffective.

Hazardous Decomposition 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

Info: breathing apparatus and full protective clothing

Section 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

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 Store in cool, dry area in a tightly closed product container in a dry cool place. this product is light and

for Storage: moisture sensitive. Store away from sources of ignition or flame.

Incompatibilities: Reducing Agents

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

Protection: 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 Information:	Component	CAS Number	Value	Control Parameters	Basis
	Cisplatin	15663-27-1	TWA	0.0020 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	Cisplatin	15663-27-1	TWA	0.0020 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
	Cisplatin	15663-27-1	TWA	0.0020 mg/m3	USA. ACGIH Threshold Limit Values (TLV)

Section 9: Physical and Chemical Properties

State: Solid/Crystalline **Melting Point:** 60 °C **Freezing Point:** N/A

Color: Yellow **Boiling Point/Range:** MP Range in Literature 270-C **pH:** N/A

Molecular Wt.: N/A **Odor:** none **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:** 2.43 G/CM3 **Autoignition Temp:** N/A

Section 10: Stability and Reactivity

General: Stable under recommended storage conditions

Incompatible materials: Strong oxidizing agents

Decomposition products: Hazardous decomposition products formed under fire conditions. - No data available

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 Acute Toxicity:

Information: LD50 Oral - rat - 25.8 mg/kg

(product): Remarks: Behavioral: Change in motor activity (specific assay). Diarrhea Blood: Normocytic anemia.

Skin Corrosion / Irritation

No data available

Serious Eye Damage/ Eye Irritation

No data Available

Respiratory or skin sensitization

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Germ Cell Mutagenicity

No data available

+C122

Carcinogenicity - mouse - Intraperitoneal

Tumorigenic: Neoplastic by RTECS criteria. Skin and Appendages: Other: Tumors. Tumorigenic Effects: Uterine

+C122

Tumorigenic: Carcinogenic by RTECS criteria. Lungs, Thorax, or Respiration: Tumors.

Possible human carcinogen

IARC: 2A - Group 2A: Probably carcinogenic to humans (Cisplatin)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: Reasonably anticipated to be a human carcinogen (Cisplatin)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity

No data available

Specific target organ toxicity – single exposure (GHS)

No data available

Likely Routes of Eye Contact

Exposure: 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: cis-Diamminedichloro Platinum (II)
UN number: 3288 **Class:** 6.1 **Packing group:** II
Proper shipping name: Toxic solid, inorganic, n.o.s. (Cisplatin)
Reportable Quantity (RQ):
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG UN number: 3288 Class: 6.1 Packing group: II EMS-No: F-A, S-A
 Proper shipping name: TOXIC SOLID, INORGANIC, N.O.S. (Cisplatin)
 Marine pollutant: No

IATA: UN number: 3288 Class: 6.1 Packing group: II
 Proper shipping name: Toxic solid, inorganic, n.o.s. (Cisplatin)

OTHER: Inquire for further transport information.

Section 15: Regulatory Information

OSHA Hazards: Carcinogen, Poisonous, Irritant

TSCA/SARA: SARA 302: This material does not contain any chemical components SARA Title III, Section 302 reporting requirements.

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, Section 313.

SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard

States Right to Massachusetts Right To Know Components: Cisplatin, CAS # 15663-27-1, Revision Date: 1993-04-24

Know: Pennsylvania Right To Know Components: Cisplatin, CAS # 15663-27-1, Revision Date: 1993-04-24

New Jersey Right To Know Components: Cisplatin, CAS # 15663-27-1, Revision Date: 1993-04-24

California Prop. 65 Components: WARNING! This product contains a chemical known to the State of California to cause cancer. Cisplatin, CAS # 15663-27-1, Revision Date: 2007-09-28

OTHER: All information included is believed to be correct but no claims are made that it is all inclusive. Use this information only as a guide. The information in this document is based on our current information and knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product Colonial Metals, Inc. does not accept nor shall we be held liable for any damage resulting from handling or from contact with this or any of our products.

Section 16: Other Information

NFPA Rating

Health: 3
 Fire: 0
 Reactivity: 0
 Poison

HMIS Rating

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

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 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

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