CMI Product #6013 Issued 06/15/15

### Safety Data Sheet 29 CFR 1910.1200

### Section 1: Company and Product Identification

Product Name: Trans-diamminedichloro Platinum (II)

Product Code: 6013

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

Emergency Supplier Emergency Contacts & Phone Number

Response: Chemtrec: 800-424-9300

World Wide - Call COLLECT to U.S: 703-527-3887



www.colonialmetals.com

### Section 2: Hazards Identification

GHS07

BLANE

BLAN

#### **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 2

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

H319: Causes serious eye irritation H335: May cause respiratory irritation

Precautionary P261: Avoid breathing dust/fume/gas/mist/vapors/spray

**Statements:** 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 Risk of serious damage to eyes.

otherwise Toxic by inhalation, in contact with skin, and if swallowed. Limited evidence of the

**classified:** carcinogenic effect.

May cause sensitization by inhalation and skin contact.

Target organs: Liver, kidneys.

# Section 3: Composition / Information on Ingredients

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Tetraammineplatinum (II) Chloride Hydrate	Irritant	14913-33-8	100
Chemical Name: Trans-platinum (II) Diammine Chemical Formula: (NH3)2PtCl2			

#### 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:** Wash out mouth with water provided the victim is conscious. Never give anything by mouth to an

unconscious person. Seek medical attention immediately

If inhaled: Remove to fresh air immediately. If victim is not breathing provide artificial respiration. If breathing is

difficult give oxygen. If Contact a physician 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 under fire conditions.

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

Method /

**Hazardous** Constituents associated with burning / combustion are to be considered toxic. Firefighters should wear **Decomposition** 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 Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all

precautions, ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate

protective protective equipment and clothing during clean-up. Avoid breathing dust/vapor. Ventilate

equipment and area if easy to do so. Contact local authorities if significant spillages cannot be contained. For personal

procedures: protection, see section 8 of the SDS.

Containment Sweep up and place in sealed container. Avoid raising dust. Ventilate area and wash spill site after

Equipment and pickup is complete

**Procedures:** 

Cleanup Collect all contaminated media, or other cleanup materials into a waste receptacle. If cleaning surface

**Procedures:** 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

Precautions: 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.

Recommendations Keep in a tightly closed container

for Storage:

Incompatibilities: Strong oxidizing agents Refer to Section 10.

### 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 (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.

protection:

Skin Protection: Wear chemical resistant gloves.

Respiratory NIOSH approved chemical cartridge respirator for particulates and acid gas or self-contained breathing

**Protection:** apparatus with full face shield

 $\textbf{Additional} \ \ \text{Lab coat/apron, flame and chemical resistant protective clothing, eye wash, safety shower, and hygiene}$ 

Information: facilities

# Section 9: Physical and Chemical Properties

Evaporation rate: N/A

State: Solid/Crystals Melting Point: 340 °C Freezing N/A

Point:

Color: Yellow Boiling N/A pH N/A

powder Point/Range:

Molecular Wt. 300.06 Odor: Odorless Water N/A

Solubility: Part. Coeff (n· N/A

Solubility:

octanol/water

 Upper Flam N/A
 Lower Flam N/A
 Vapor N/A

 Limits:
 Limits:
 Pressure:

 VOC Content N/A
 Specific 2.74
 Autoignition N/A

Flash Point: N/A

(lbs/gal): Gravity: Temp:

### 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 Strong oxidizing agents

materials:

Decomposition Nitrogen oxides, hydrogen chloride gas, platinum oxide.

products:

# **Section 11: Toxicological Information**

General No data available

Information:

Toxicological Subchronic (Target Organ Effects)

Information Liver. Kidneys. Skin. Female reproductive system, uterus. Bones

(product):

Likely Routes of Eye Contact

Exposure: Skin Contact

Inhalation

Ingestion - possible, but considered unlikely.

# Toxicological Information (contained substances)

### Carcinogenicity or Chronic/Carcinogenicity:

mutagenicity: Mouse

Intraperitoneal dose: 32408 ug/kg exposure time: 10 w Frequency: I

Result: Tumorigenic: Equivocal tomorigenic agent by RTECS criteria. Lungs, thorax, or respiration:

tumors

Mutagenicity (Genetic Effects)

Species: Human Dose: 50 UMOL/L Cell Type: lymphocyte

Mutation test: Micronucleus test

Species: Human Dose: 50 UMOL/L Exposure Time: 4H Cell Type: fibroblast Mutation test: DNA damage

Species: Human Dose: 100 UMOL/L

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Cell Type: lung

Mutation test: DNA damage

Species: Human Dose: 5 UMOL/L Cell Type: HeLa cell Mutation test: DNA damage Species: Human Dose: 5 UMOL/L Cell Type: HeLa cell

Mutation test: Other mutation test systems

Species: Human Dose: 20 MG/L

Cell Type: Other cell types Mutation test: DNA damage

Species: Mouse Dose: 10 UMOL/L Cell Type: fibroblast Mutation test: DNA damage

Species: Mouse Dose: 10 UMOL/L Cell Type: leukocyte Mutation test: DNA damage

Species: Mouse Dose: 5 MG/L

Cell Type: Other cell types Mutation test: DNA inhibition

Species: Hamster Dose: 10 UMOL/L Exposure Time: 2H Cell Type: fibroblast

Mutation test: Morphological transformation.

Species: Hamster Dose: 320 UMOL/L Exposure Time: 2H Cell Type: lung

Mutation test: DNA damage

Species: Hamster Dose: 250 UMOL/L Cell Type: lung

Mutation test: Sister chromatid exchange

Species: Hamster Dose: 100 MG/L Cell Type: lung

Mutation test: Mutation in mammalian somatic cells.

Species: Hamster Dose: 34 UMOL/L Cell Type: ovary

Mutation test: Mutation in mammalian somatic cells.

Species: Mammal Dose: 50 UMOL/ Cell Type: lymphocyte Mutation test: DNA L Miscellaneous Toxicological Information:

Oral Rat

> 5110 mg/kg

LD50

Intraperitoneal

Mouse 27 mg/kg LD50

Irritation data:

Skin

Rabbit: no irritation effect

Eyes

Rabbit: severe irritation effect

### Section 12: Ecological Information

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.

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

Other NOTE: Chemical additions, processing, or otherwise altering this material may make the waste considerations: 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**

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 the CPR, and the MSDS

 $\boldsymbol{Regulatory}\,$  contains all the information required by the CPR.

Information: DSL: No NDSL: No

European Union Symbol of Danger: Xi

(EU) Regulatory Indication of Danger: Irritant.

**Information:** R: 41

Risk Statements: Risk of serious damage to eyes.

Protection: J

S: 26-39

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

Wear eye/face protection.

# **Section 16: Other Information**

Health: 2
Fire: 0
Reactivity: 0
Health: 2
Fire: 0
Reactivity: 0
Reactivity: 0
Personal

**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.

SDS Author: John Kerchner Version Date: 9/17/2015