# Safety Data Sheet 29 CFR 1910.1200

### Section 1: Company and Product Identification

**Product Name:** Potassium Hexachloroplatinate (IV)

Product Code: 6020

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

GHS0

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BLAN

### **Hazard Pictograms:**





Signal Word: Danger

**Hazard Category:** Acute tox, oral Cat 3

Sensitization, resp. Cat 1 Sensitization, skin Cat 1 Skin corrosion/irritation Cat 2 Serious eye damage/eye irritation Cat 1

**Hazard Statements:** H301: Toxic if swallowed

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled

H317: May cause an allergic skin reaction

H315: Causes skin irritation H318: Causes serious eye damage

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

P342+311: If experiencing respiratory symptoms: Call a POISON CENTER or 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 **classified:** exposure and prevent sensitization. Asthma attacks may occur upon the minutest reexposure to the

substance

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 %
Potassium Hexchloroplatinate (IV)	Toxic/Irritant	16921-30-5	0 - 99.9

Chemical Name: Potassium Hexachloroplatinate (IV), Chloropotassiumplatinate, Potassium Platinic Chloride

Chemical Family: Platinum Group Metal Salts

Chemical Formula: K2PtCl6

Synonyms: Potassium Hexchloroplatinate (IV), Chloropotassiumplatinate, Potassium Platinic Chloride

### 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. **Eve 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. Can decompose to emit toxic chlorine vapor.

Extinguishing Water spray, alcohol resistant foam, dry chemical or carbon dioxide.

Method /

**Hazardous** Constituents associated with burning / combustion are to be considered toxic. Firefighters should wear **Decomposition** 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 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/vapors. 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 Large Spills: Contain actively spilling material if safe and easy to do so, avoid generating dust.

Equipment and Neutralize with dilute alkalis solution or use soda ash or lime. Soak up and place in a sealed container.

**Procedures:** Personnel to be protected with full face shield and proper respirator for hydrogen chloride and chlorine.

Collect material and dispose

Cleanup Collect all contaminated media, or other cleanup materials into a waste receptacle. If cleaning surface is **Procedures:** 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/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 away from sources of ignition or flame.

for Storage:

Incompatibilities: Store away from strong volatile acids. 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** 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: 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 Where risk assessment shows air-purifying respirators are appropriate use full-face particle respirator

Protection: 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 Ingredient(s) - Exposure Limits

**Information:** Potassium Hexchloroplatinate (IV)

OSHA PEL -0.002 MG/M3 (AS PT SOLUBLE) ACGIH - 0.002 MG/M3 (AS PT SOLUBLE).

# Section 9: Physical and Chemical Properties

State: Solid Melting Point: 482 °F 250 °C Freezing N/A

Point:

Color: Orange- Boiling N/A pH 3.0-4.0

yellow **Point/Range:** 

crystal/yellow

powder

Molecular Wt. 486.01 Odor: N/A Water Moderately

Solubility:

Evaporation rate: N/A Flash Point: N/A Part. Coeff (n. N/A

octanol/water

Upper Flam N/A Lower Flam N/A Vapor 3.5 g/cm3
Limits: Limits: Density:

VOC Content N/A Specific 3.5 Autoignition 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, acids

materials:

Decomposition Hydrogen chloride gas, potassium oxides

products:

## **Section 11: Toxicological Information**

General To the best of our knowledge the chemical, physical and toxicological effects of this compound have not

**Information:** been thoroughly investigated.

Toxicological Acute Studies:
Information Eye Effects
(product): Eyes: Rabbit

Remarks: Severe irritation effect

Skin Effects Skin: Rabbit

Remarks: No irritation effect

## **Mutagenicity (Genetic Effects)**

Genotoxicity in vitro

Hamster ovary

Mutation in mammalian somatic cells.

Likely Routes of Eye Contact

Exposure: Skin Contact

Inhalation

Ingestion - possible, but considered unlikely.

## Toxicological Information (contained substances)

Carcinogenicity or No data available

mutagenicity:

Sensitization: Product is not expected to be a sensitizer.

# **Section 12: Ecological Information**

General Product not tested.

information:

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 Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed considerations: 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

Toxic solid, inorganic, n.o.s., (Dipotassium hexachloroplatinate)

Hazard Class

6.1, 8

DOT Identification Number

UN3290

DOT Shipping Label

Toxic solid, inorganic, n.o.s., (Dipotassium hexachloroplatinate)

Packaging Requirements

II

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. Dipotassium hexachloroplatinate

Marine pollutant: No

IATA: UN number: 3288 Class: 6.1 Packing group: II

Proper shipping name: Toxic solid, inorganic, n.o.s. Dipotassium hexachloroplatinate

**OTHER:** Inquire for further transport information.

Comments: None

## **Section 15: Regulatory Information**

**TSCA:** All ingredients of this product are listed under the U.S. Toxic Substances Control Act (TSCA)

Chemical Substance Inventory.

SARA 313 SARA Hazard Classes

Acute Health Hazard

**SARA Section 313 Notification** 

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 This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS

**Regulatory** contains all the information required by the CPR.

Information: DSL: Yes

NDSL: No

European Union Symbol of Danger: T

(EU) Regulatory Indication of Danger: Toxic.

Information:

R: 25-38-41-42/43

Risk Statements: Toxic if swallowed. Irritating to skin. Risk of serious damage to eyes. May cause

sensitization

by inhalation and skin contact.

S: 22-26-36/37/39-45

Safety Statements: Do not breathe dust. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## **Section 16: Other Information**

Other None International

**Regulations:** 

HMIS Rating Precautionary Label

NFPA Rating Health: 2 Toxic by ingestion, Skin and respiratory sensitizer,

Health: 2 Fire: 0 Irritant

Fire: 0 Reactivity: 0
Reactivity: 0 Personal
Other: 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.

SDS Author: John Kerchner Version Date: 7/27/2015