


MATERIAL SAFETY DATA SHEET

Potassium Hexachloroplatinate (IV)

NFPA 	HMIS <table border="1"><tr><td>HEALTH</td><td>2</td></tr><tr><td>FLAMMABILITY</td><td>0</td></tr><tr><td>REACTIVITY</td><td>0</td></tr><tr><td>PERSONAL PROTECTION</td><td>J</td></tr></table>	HEALTH	2	FLAMMABILITY	0	REACTIVITY	0	PERSONAL PROTECTION	J
HEALTH	2								
FLAMMABILITY	0								
REACTIVITY	0								
PERSONAL PROTECTION	J								

1. Product And Company Identification

Supplier Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States Company Contact: Joseph Fittos III Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: jfittos@colonialmetals.com Web Site: colonialmetals.com	Manufacturer Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States Company Contact: Joseph Fittos III Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: jfittos@colonialmetals.com Web Site: colonialmetals.com
Supplier Emergency Contacts & Phone Number Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887	Manufacturer Emergency Contacts & Phone Number Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887

Issue Date: 04/17/2009

Product Name: Potassium Hexachloroplatinate (IV)
Chemical Name: Potassium Hexachloroplatinate (IV), Chloropotassiumplatinate, Potassium Platinic Chloride
CAS Number: 16921-30-5
Chemical Family: Platinum Group Metal Salts
Chemical Formula: K₂PtCl₆
MSDS Number: 6020
Product Code: 6020

Synonyms

Potassium Hexchloroplatinate (IV), Chloropotassiumplatinate, Potassium Platinic Chloride

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
Potassium Hexchloroplatinate (IV)	16921-30-5	0 - 99.9

EMERGENCY OVERVIEW

**Toxic
Irritant**

MATERIAL SAFETY DATA SHEET

Potassium Hexachloroplatinate (IV)

Hazards Identification (Pictograms)



3. Hazards Identification

Primary Routes(s) Of Entry

Eyes: Likely
Inhalation: Likely
Skin: Likely
Ingestion: Likely

Eye Hazards

Causes eye irritation.

Skin Hazards

Causes skin irritation. May be harmful if absorbed through the skin.

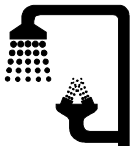
Ingestion Hazards

Toxic if swallowed.

Inhalation Hazards

Causes respiratory tract irritation. May be harmful if inhaled.

First Aid (Pictograms)



4. First Aid Measures

Eye

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

Skin

Wash with soap and copious amounts of water. If discomfort occurs or persists, contact a physician immediately. Remove contaminated clothing and shoes and wash before reuse.

Ingestion

Wash out mouth with water provided victim is conscious. Never give anything by mouth to an unconscious person. Contact a physician immediately.

Inhalation

Remove to fresh air immediately. If victim is not breathing provide artificial respiration. Contact a physician immediately.

MATERIAL SAFETY DATA SHEET

Potassium Hexachloroplatinate (IV)

Fire Fighting (Pictograms)



5. Fire Fighting Measures

Flash Point: NA °C

Autoignition Point: NA °C

Flammability Class: NA

Fire And Explosion Hazards

Use proper safety equipment. Can decompose to emit toxic chlorine vapor.

Extinguishing Media

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

Fire Fighting Instructions

Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Sweep or soak up and place in a sealed container. Person protected with full face shield and proper respirator for acid gas and dust/mist/fume/radionuclide. Ventilate area and wash spill site after pick up is complete.

Handling & Storage (Pictograms)



7. Handling And Storage

Handling Precautions

Avoid breathing dust or vapor. Avoid formation of dust and aerosols. Avoid contact with eyes, skin and clothing.

Avoid prolonged or repeated exposure. Use with adequate ventilation.

Storage Precautions

Keep in a tightly sealed container in a dry, well ventilated place.

Work/Hygienic Practices

Use good personal hygiene. Wash thoroughly with soap and water after handling.

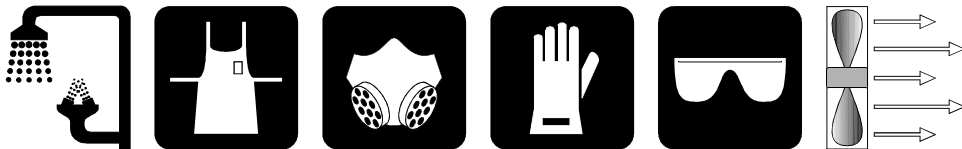
Other Precautions

0.01 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.

MATERIAL SAFETY DATA SHEET

Potassium Hexachloroplatinate (IV)

Protective Clothing (Pictograms)



8. Exposure Controls/Personal Protection

Engineering Controls

Ventilation: Local Exhaust: Required in handling area
Mechanical: Desirable to insure concentration
of material below TLV/TWA levels
Other: Recommended

Safety shower and eyewash

Eye/Face Protection

ANSI approved safety glasses/goggles

Skin Protection

Rubber/Neoprene (use compatible chemical-resistant gloves)

Respiratory Protection

NIOSH approved chemical cartridge respirator for dust/mist/radionuclide or self-contained breathing apparatus with full face shield.

Other/General Protection

Lab coat/apron, flame and chemical resistant protective clothing, eye wash, safety shower, and hygiene facilities for washing

Ingredient(s) - Exposure Limits

Potassium Hexachloroplatinate (IV)
OSHA PEL - 0.002 MG/M3 (AS PT SOLUBLE)
ACGIH - 0.002 MG/M3 (AS PT SOLUBLE)

9. Physical And Chemical Properties

Appearance

Orange-yellow crystal/yellow powder

Chemical Type: Mixture

Physical State: Solid

Melting Point: 482 °F 250 °C

Specific Gravity: 3.5

Molecular Weight: 486.01

Vapor Density: 3.5 g/cm³

pH Factor: 3.0-4.0

Solubility: Moderately

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)

Elevated temperature

MATERIAL SAFETY DATA SHEET

Potassium Hexachloroplatinate (IV)

10. Stability And Reactivity - Continued

Incompatible Materials

Strong oxidizing agents, acids.

Hazardous Decomposition Products

Hydrogen chloride gas, potassium oxides.

11. Toxicological Information

Acute Studies

Eye Effects

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.

To the best of our knowledge the chemical, physical and toxicological properties of this compound have not been thoroughly investigated.

12. Ecological Information

No Data Available...

13. Disposal Considerations

Place in sealed container. Consult Federal EPA, State and local regulations for proper disposal/recycle/reclamation.

NOTE: Chemical additions, processing, or otherwise altering this material may make the waste management information presented above incomplete, inaccurate, or otherwise inappropriate.

14. Transport Information

Proper Shipping Name

Toxic solid, Corrosive, Inorganic, n.o.s. (Dipotassium hexachloroplatinate)

Hazard Class

6.1

Secondary Hazard Class

8

DOT Identification Number

3290

MATERIAL SAFETY DATA SHEET

Potassium Hexachloroplatinate (IV)

14. Transport Information - Continued

Packaging Requirements

II

Additional Shipping Paper Description

IATA: Same as DOT. Always consult IATA regulations before shipping.

15. Regulatory Information

U.S. Regulatory Information

This compound is listed on the TSCA inventory.

Canadian Regulatory Information

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

European Union (EU) Regulatory Information

Symbol of Danger: T

Indication of Danger: Toxic.

R: 25-41-42/43

Risk Statements: Toxic if swallowed. 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).

DSCL - Europe (Pictograms)



16. Other Information

NFPA Rating

Health: 2

Fire: 0

Reactivity: 0

HMIS Rating

Health: 2

Fire: 0

Reactivity: 0

Personal Protection: J

Revision/Preparer Information

MSDS Preparer: Joseph J. Fittos III

MSDS Preparer Phone Number: 410-398-7200

This MSDS Supersedes A Previous MSDS Dated: 03/02/2001

MATERIAL SAFETY DATA SHEET

Potassium Hexachloroplatinate (IV)

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.

Printed Using MSDS Generator™ 2000