


MATERIAL SAFETY DATA SHEET

Potassium Tetrachloroplatinate (II)

NFPA 	HMIS <table border="1"><tr><td>HEALTH</td><td style="text-align: center;">3</td></tr><tr><td>FLAMMABILITY</td><td style="text-align: center;">0</td></tr><tr><td>REACTIVITY</td><td style="text-align: center;">0</td></tr><tr><td>PERSONAL PROTECTION</td><td style="text-align: center;">J</td></tr></table>	HEALTH	3	FLAMMABILITY	0	REACTIVITY	0	PERSONAL PROTECTION	J
HEALTH	3								
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
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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
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Issue Date: 04/29/2008

Product Name: Potassium Tetrachloroplatinate (II)
Chemical Name: Potassium Tetrachloroplatinate (II), Chloropotassiumplatinite, Potassium Platinous Chloride
CAS Number: 10025-99-7
Chemical Family: Platinum Group Metal
Chemical Formula: K₂PtCl₄
MSDS Number: 6021
Product Code: 6021

Synonyms
Platinous Potassium Chloride, Potassium Chloroplatinite, Potassium platinochloride
Potassium platinum (II) tetrachloride, Potassium tetrachloroplatinate (II)
Potassium tetrachloroplatinate (II)

Product Identification Text
RTECS# TP1850000

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
Potassium Tetrachloroplatinum (II)	10025-99-7	99.9

EMERGENCY OVERVIEW

Toxic.
Toxic if swallowed. Irritating to skin. Risk of serious damage to eyes. May cause sensitization by inhalation and skin contact.

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Potassium Tetrachloroplatinate (II)

Hazards Identification (Pictograms)



3. Hazards Identification

Primary Routes(s) Of Entry

Inhalation: Likely

Skin: Likely

Ingestion: Likely

Eye Hazards

Can cause mild to moderate irritation of the eyes.

Skin Hazards

Can cause mild to moderate irritation of the skin.

Ingestion Hazards

May be harmful if swallowed.

Inhalation Hazards

Causes respiratory tract irritation. May cause nose, throat, and lung irritation.

Chronic/Carcinogenicity Effects

None known at this time.

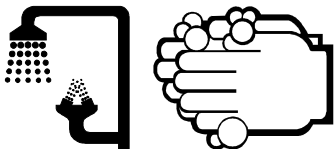
Conditions Aggravated By Exposure

Any respiratory conditions such as asthma. Maintain housekeeping and personal hygiene to minimize exposure and prevent sensitization.

Conditions Aggravated By Overexposure

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

First Aid (Pictograms)



4. First Aid Measures

Eye

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

Skin

Flush area for 15 minutes with water and wash with soap and water. If discomfort occurs or persists, contact a physician. Remove contaminated clothing and shoes and wash before reuse.

Ingestion

Not expected to be a problem in industry. However if swallowed and discomfort occurs, contact a physician.

Inhalation

Remove to fresh air immediately. If discomfort occurs or persists, contact a physician.

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Potassium Tetrachloroplatinate (II)

Fire Fighting (Pictograms)



5. Fire Fighting Measures

Flash Point Method: NA

Flammability Class: NA

Fire And Explosion Hazards

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

Extinguishing Media

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

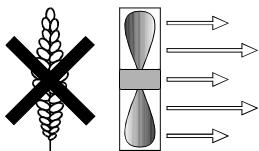
Fire Fighting Instructions

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

6. Accidental Release Measures

Sweep or soak up and place in 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 pickup is complete.

Handling & Storage (Pictograms)



7. Handling And Storage

Handling And Storage Precautions

Avoid contact with eyes, prolonged or repeated contact with skin. Avoid breathing dust. Use compatible chemical-resistant gloves. Wash hands thoroughly after handling.

Handling Precautions

Avoid contact with eyes, prolonged or repeated contact with skin. Avoid breathing dust. Use compatible chemical-resistant gloves. Wash hands thoroughly after handling.

Storage Precautions

Keep tightly closed.

Work/Hygienic Practices

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

Other Precautions

0.01 mg/m² high efficiency particular respirator/supplied air respirator/self-contained breathing apparatus; 0.2 mg/m² same as above with full face piece; 1 mg/m³ 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.

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Potassium Tetrachloroplatinate (II)

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

Eye/Face Protection

ANSI approved safety glasses/goggles

Skin Protection

Rubber/Neoprene (use compatible chemical-resistant gloves).

Respiratory Protection

Chemical cartridge respiratory for dust/mist/fume/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 Tetrachloroplatinum (II)
ACGIH - TWA - 0.002 mg/m³ (Pt)
MSHA Standard-Air - TWA 0.002 mg/m³ (Pt)
OSHA PEL - 8H TWA 0.002 mg/m³ (Pt)

9. Physical And Chemical Properties

Appearance

Dark red to brownish red crystals

Chemical Type: Mixture

Physical State: Solid

Melting Point: 250 (Decomposes) °C

Boiling Point: NA °C

Specific Gravity: 3.38

Molecular Weight: 415.11

Vapor Pressure: NA

Vapor Density: NA

pH Factor: NA

Solubility: Moderately

Evaporation Rate: NA

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

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Potassium Tetrachloroplatinate (II)

10. Stability And Reactivity - Continued

Conditions To Avoid (Stability)

Elevated temperature

Incompatible Materials

Mixing with mineral acids and organic reducing agents

Hazardous Decomposition Products

Hazardous Decomposition Products: Platinum oxide, Potassium oxides, Hydrogen chloride gas.

Conditions To Avoid (Polymerization)

Will not occur.

11. Toxicological Information

Skin Effects

Skin Contact: Causes skin irritation.

Acute Oral Effects

Ingestion: Toxic if swallowed.

Acute Inhalation Effects

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Subchronic (Target Organ Effects)

Sensitization: May cause allergic reaction.

Miscellaneous Toxicological Information

SIGNS AND SYMPTOMS OF EXPOSURE

Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Exposure can cause: Dermatitis. Asthma.

TOXICITY DATA

Oral

Child

400 mg/kg

LDLO

Remarks: Cardiac:Other changes.

Intraperitoneal

Mouse

45 MG/KG

LD50

Remarks: Tumorigenic:Active as anti-cancer agent.

CHRONIC EXPOSURE - MUTAGEN

Species: Human

Dose: 150 UMOL/L

Cell Type: lymphocyte

Mutation test: Micronucleus test

Species: Mouse

Dose: 50 MG/L

Cell Type: lymphocyte

Mutation test: DNA inhibition

Species: Mouse

Dose: 100 MG/L

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11. Toxicological Information - Continued

Miscellaneous Toxicological Information - Continued

Cell Type: leukocyte

Mutation test: DNA inhibition

Species: Hamster

Dose: 65 UMOL/L

Cell Type: ovary

Mutation test: Mutation in mammalian somatic cells.

12. Ecological Information

No Data Available...

13. Disposal Considerations

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, inorganic, n.o.s.

(Potassium tetrachloroplatinate (II))

Hazard Class

6.1

DOT Identification Number

UN3288

DOT Shipping Label

Toxic

Packaging Requirements

II

Additional Shipping Paper Description

IATA:

Toxic solid, inorganic, n.o.s.

(Potassium tetrachloroplatinate (II))

6.1, II, 613

Always consult IATA manual before shipping

DOT (Pictograms)



15. Regulatory Information

U.S. Regulatory Information

This product is TSCA listed.

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15. Regulatory Information - Continued

SARA Section 313 Notification

This product does not require reporting under SARA Title 313 notification.

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.

European Union (EU) Regulatory Information

Symbol of Danger: T

Indication of Danger: Toxic.

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).

Other International Regulations

US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Toxic.

Risk Statements: Toxic if swallowed. Irritating to skin. Risk of serious damage to eyes. May cause sensitization by inhalation and skin contact. 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).

WHMIS - Canada (Pictograms)



DSCL - Europe (Pictograms)



16. Other Information

NFPA Rating

Health: 3

Fire: 0

Reactivity: 0

Other: COR

HMIS Rating

Health: 3

Fire: 0

Reactivity: 0

Personal Protection: J

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Potassium Tetrachloroplatinate (II)

16. Other Information - Continued

HMIS Rating - Continued

Revision/Preparer Information

MSDS Preparer: Joseph J. Fittos III

MSDS Preparer Phone Number: 410-398-7200

This MSDS Supersedes A Previous MSDS Dated: 03/15/1998

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.

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