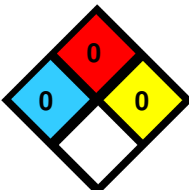


# MATERIAL SAFETY DATA SHEET

## Potassium Hexachloro Iridate (IV)

<b>NFPA</b> 	<b>HMIS</b> <table border="1"><tr><td>HEALTH</td><td>00</td></tr><tr><td>FLAMMABILITY</td><td>0</td></tr><tr><td>REACTIVITY</td><td>0</td></tr><tr><td>PERSONAL PROTECTION</td><td>C</td></tr></table>	HEALTH	00	FLAMMABILITY	0	REACTIVITY	0	PERSONAL PROTECTION	C
HEALTH	00								
FLAMMABILITY	0								
REACTIVITY	0								
PERSONAL PROTECTION	C								

### 1. Product And Company Identification

<b>Supplier</b> Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States  <b>Company Contact:</b> Michael Doss - Dir. of Regulatory Affairs <b>Telephone Number:</b> 410-398-7200 <b>FAX Number:</b> 410-398-2918 <b>E-Mail:</b> mdoss@colonialmetals.com <b>Web Site:</b> www.colonialmetals.com	<b>Manufacturer</b> Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States  <b>Company Contact:</b> Michael Doss - Dir. of Regulatory Affairs <b>Telephone Number:</b> 410-398-7200 <b>FAX Number:</b> 410-398-2918 <b>E-Mail:</b> mdoss@colonialmetals.com <b>Web Site:</b> www.colonialmetals.com
<b>Supplier Emergency Contacts &amp; Phone Number</b> Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887	<b>Manufacturer Emergency Contacts &amp; Phone Number</b> Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887

**Issue Date:** 11/27/2012

**Product Name:** Potassium Hexachloro Iridate (IV)  
**Chemical Name:** Potassium Hexachloroiridium (IV), Potassium Iridium (IV) Hexachloride  
**CAS Number:** 16920-56-2  
**Chemical Family:** Platinum Group Metal Salts  
**Chemical Formula:** K<sub>2</sub>IrCl<sub>6</sub>  
**MSDS Number:** 3009  
**Product Code:** 3009

### 2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
Potassium Hexachloro Iridate (IV)	16920-56-2	99.9

### EMERGENCY OVERVIEW

To the best of our knowledge the chemical, physical, and toxicological properties have not been thoroughly investigated. Avoid elevated temperature. Product incompatible with strong reducing agents. Can decompose chlorine vapors.

### Hazards Identification (Pictograms)



# MATERIAL SAFETY DATA SHEET

## Potassium Hexachloro Iridate (IV)

### 3. Hazards Identification

#### **Primary Routes(s) Of Entry**

Eye Contact  
Skin Contact  
Inhalation  
Ingestion - possible, but considered unlikely.

#### **Eye Hazards**

Irritation

#### **Skin Hazards**

Maybe harmful if absorbed through skin  
Irritation

#### **Ingestion Hazards**

May cause gastrointestinal irritation; poisoning is unlikely on a single exposure.

#### **Inhalation Hazards**

Maybe harmful if inhaled  
Causes respiratory tract irritation.  
Irritation

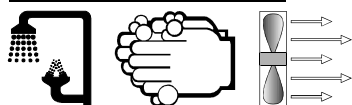
#### **Conditions Aggravated By Exposure**

May cause irritation of the respiratory system. 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. Never give anything by mouth to an unconscious victim.

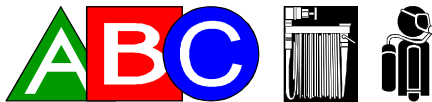
#### **Inhalation**

If not breathing, give artificial respiration  
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.  
Remove to fresh air immediately. If discomfort occurs or persists, contact a physician.

# MATERIAL SAFETY DATA SHEET

## Potassium Hexachloro Iridate (IV)

### 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 ammonia and chlorine gases.

#### **Extinguishing Media**

Water spray, CO<sub>2</sub>, foam or medium to fight primary source

In case of fire, use water fog, dry chemical, CO<sub>2</sub>, or "alcohol" foam & Large quantities of water

Solid Streams of water may be ineffective.

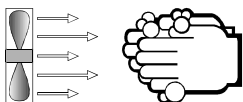
#### **Fire Fighting Instructions**

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

### 6. Accidental Release Measures

Soak or sweep up and place in a sealed container. Person protected with full face shield and proper respirator for chlorine gas.

### Handling & Storage (Pictograms)



### 7. Handling And Storage

#### **Handling And Storage Precautions**

Avoid contact with eyes, prolonged or repeated contact with skin. Use compatible chemical resistant gloves.

Wash hands thoroughly after handling.

#### **Handling Precautions**

Avoid breathing dust or vapor.

Avoid contact with eyes.

Avoid contact with skin and clothing.

#### **Storage Precautions**

Keep container tightly closed and in a dry well ventilated area.

#### **Work/Hygienic Practices**

Wash thoroughly with soap and water after handling.

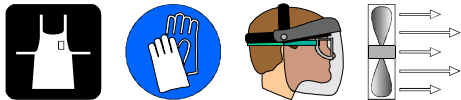
#### **Other Precautions**

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 Hexachloro Iridate (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: NA

#### Eye/Face Protection

ANSI approved safety glasses/goggles

#### Skin Protection

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

#### Respiratory Protection

Chemical cartridge respirator 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.

### 9. Physical And Chemical Properties

#### Appearance

Dark red/black crystals

**Chemical Type:** Mixture

**Physical State:** Solid

**Melting Point:** Decomposes >385 °C

**Boiling Point:** NA °C

**Specific Gravity:** NE

**Molecular Weight:** 483.45

**Vapor Pressure:** NA

**Vapor Density:** NA

**pH Factor:** NA

**Solubility:** 0.6 mg/100 ml

**Evaporation Rate:** NA

### 10. Stability And Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

#### Conditions To Avoid (Stability)

Elevated temperature

#### Incompatible Materials

Strong reducing agents

#### Hazardous Decomposition Products

Chlorine vapors

# MATERIAL SAFETY DATA SHEET

## Potassium Hexachloro Iridate (IV)

### 11. Toxicological Information

No Data Available...

### 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

Potassium Hexochloro Iridate (IV)  
Not a hazardous substance

#### Additional Shipping Paper Description

Not a Hazardous Substance

### 15. Regulatory Information

#### 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.

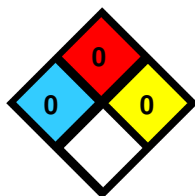
#### Canadian Regulatory Information

All ingredients of this product comply with the New Substances Notification requirements of the Canadian Environmental Protection Act (CEPA).

#### European Union (EU) Regulatory Information

R36/37/38 - Irritating to eyes, respiratory system and skin

#### NFPA



#### HMIS

HEALTH	00
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	C

### 16. Other Information

#### Precautionary Label

Irritant

#### Revision/Preparer Information

MSDS Preparer: Michael Doss - Dir Reg Affairs

MSDS Preparer Phone Number: 410-398-7200

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

# MATERIAL SAFETY DATA SHEET

## Potassium Hexachloro Iridate (IV)

### 16. Other Information - Continued

#### **Reference Documentation**

The following were the primary references used in the creation of this MSDS:  
CAMEO, ERG, On Site Chemists

#### **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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