


# MATERIAL SAFETY DATA SHEET

## Chloro (1,5-Cyclooctadine) Iridium (I) Dimer

<b>NFPA</b> 	<b>HMIS</b> <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: 07/29/2008

Product Name: Chloro (1,5-Cyclooctadine) Iridium (I) Dimer  
CAS Number: 12112-67-3  
Chemical Formula: Cl<sub>6</sub>H<sub>24</sub>Cl<sub>2</sub>Ir<sub>2</sub>  
MSDS Number: 3020  
Product Code: 3020

### 2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
Chloro (1,5-Cyclooctadine) Iridium (I) Dimer	12112-67-3	

### EMERGENCY OVERVIEW

Irritating.

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

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## Chloro (1,5-Cyclooctadine) Iridium (I) Dimer

### EMERGENCY OVERVIEW - Continued

#### Hazards Identification (Pictograms)



### 3. Hazards Identification

#### Primary Routes(s) Of Entry

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

#### Eye Hazards

Slight to mild irritation.

#### Skin Hazards

Slight to mild irritation.

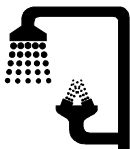
#### Ingestion Hazards

No information available on the physiological effects.

#### Inhalation Hazards

Irritating to the respiratory tract, nose and mucous membranes.

#### 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

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

#### Ingestion

If victim is conscious give the water. Never give anything by mouth to an unconscious person. Induce vomiting only if directed to by medical personnel. Contact a physician immediately.

#### Inhalation

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

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## Chloro (1,5-Cyclooctadine) Iridium (I) Dimer

### 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 and corrosive fumes under fire conditions.

#### Extinguishing Media

Use carbon dioxide, dry chemical powder, or appropriate foam.

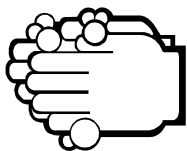
#### Fire Fighting Instructions

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

### 6. Accidental Release Measures

Sweep up and place in sealed container. Avoid dusting. Ventilate area and wash spill site after pickup is complete.

### Handling & Storage (Pictograms)



### 7. Handling And Storage

#### Handling Precautions

Avoid contact with eyes, prolonged or repeated contact with skin. Avoid breathing dust.

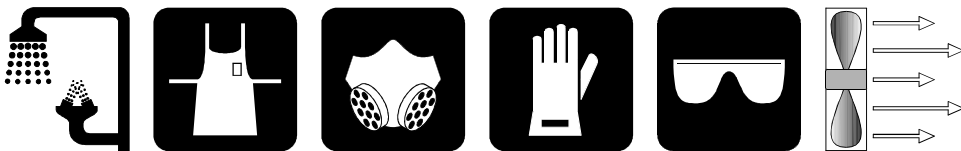
#### Storage Precautions

Store in a tightly sealed container in a cool, dry place.

#### Work/Hygienic Practices

Always use good personal hygiene after handling.

### 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:	Closed Ventilation system (Laboratory Fume Hood)

# MATERIAL SAFETY DATA SHEET

## Chloro (1,5-Cyclooctadine) Iridium (I) Dimer

### 8. Exposure Controls/Personal Protection - Continued

#### Engineering Controls - Continued

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 acid gas 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

Red crystals

**Chemical Type:** Mixture

**Physical State:** Solid

**Melting Point:** 205 °C

**Boiling Point:** NA °C

**Specific Gravity:** NA

**Molecular Weight:** 671.71

**Vapor Pressure:** NA

**Vapor Density:** NA

**pH Factor:** NA

**Solubility:** insoluble in water

**Evaporation Rate:** NA

### 10. Stability And Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

#### Incompatible Materials

Oxidizing agents

#### Hazardous Decomposition Products

Carbon monoxide, carbon dioxide, organic fumes, iridium salts.

### 11. Toxicological Information

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

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

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### 13. Disposal Considerations - Continued

presented above incomplete, inaccurate, or otherwise inappropriate.

### 14. Transport Information

#### Proper Shipping Name

Non-hazardous

#### Additional Shipping Paper Description

IATA: Always consult IATA manual before shipping.

### 15. Regulatory Information

No Data Available...

### 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

### 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 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.