EMERGENCY OVERVIEW

Flammable. Irritant.
To the best of our knowledge the chemical, physical, and toxicological properties of this compound have not been thoroughly investigated. Product incompatible with molten salts such as NaCl and NaCn.

Hazard Identification (Pictograms)
## 3. Hazards Identification

### Primary Routes(s) Of Entry

<table>
<thead>
<tr>
<th>Route</th>
<th>Likelihood</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye</strong></td>
<td>Likely</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>Likely, Fine Dust</td>
</tr>
<tr>
<td><strong>Skin</strong></td>
<td>Likely</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>Likely</td>
</tr>
</tbody>
</table>

### Eye Hazards
- Irritation

### Skin Hazards
- Irritation. May be harmful if absorbed through skin.

### Ingestion Hazards
- May be harmful.

### Inhalation Hazards
- Irritation to respiratory tract and mucous membranes.

### Conditions Aggravated By Exposure
- May cause irritation of the respiratory system. Maintain housekeeping and personal hygiene to minimize exposure and prevent sensitization.

### First Aid (Pictograms)

#### 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 plenty of water. If discomfort occurs or persists, contact a physician immediately. Remove contaminated clothing and shoes and wash before reuse.

#### Ingestion
- If swallowed 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. If breathing is difficult give oxygen. Contact a physician immediately.

### Fire Fighting (Pictograms)

- Use appropriate extinguishing agents for Class A, B, and C fires.
5. Fire Fighting Measures

**Flash Point:** NA °C  
**Flash Point Method:** NA  
**Autoignition Point:** NA °C  
**Flammability Class:** NA

**Fire And Explosion Hazards**  
Finely divided iridium may be a moderate fire hazard. As with any metal, upon heating may melt and with continued heating produce hazardous vapors. Emits toxic fumes under fire conditions.

**Extinguishing Media**  
Suitable: Dry chemical powder

**Fire Fighting Instructions**  
Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Sweep up and place in a sealed container, avoid raising dust. Person protected with full face shield and proper respirator for dust. Ventilate area and wash spill site after pick up is complete.

**Handling & Storage (Pictograms)**

7. Handling and Storage

**Handling Precautions**  
Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Avoid breathing dust.

**Storage Precautions**  
Keep container sealed away from heat, sparks, and open flame.

**Work/Hygienic Practices**  
Always use good personal hygiene 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.
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 - Dust (Laboratory Fume Hood)
- 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/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**
- Silver white metal/powder

**Odor**
- Slight process odor
- Chemical Type: Pure
- Physical State: Solid
- Melting Point: 2140 °C
- Boiling Point: 4130 °C
- Specific Gravity: 22.65
- Molecular Weight: 192.2
- Vapor Pressure: NA
- Vapor Density: NA
- pH Factor: NA
- Solubility: Insoluble
- Evaporation Rate: NA

10. Stability And Reactivity

**Stability:** Stable
**Hazardous Polymerization:** Will not occur

**Incompatible Materials**
- Finely divided powder can exhibit catalytic activity with materials such as fluorine; molten salts such as NaCl and NaCh. Strong oxidizing agents, halogens, tin/ tin oxides, lead, zinc.
10. Stability and Reactivity (cont.)

**Hazardous Decomposition Products**
Iridium oxides.

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 presented above incomplete, inaccurate, or otherwise inappropriate.

14. Transport Information

**Additional Shipping Paper Description**
Always consult IATA manual before shipping.

15. Regulatory Information

**Canadian Regulatory Information**
This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all of the information required by the CPR.
DSL: Yes
NDSL: No

**European Union (EU) Regulatory Information**
Symbol of danger: F- Xi
Indication of Danger: Highly Flammable. Irritant.
R: 11-36
Risk Statements: Highly flammable. Irritating to eyes.
S: 16-26
Safety Statements: Keep away from sources of ignition- no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**DSCL - Europe (Pictograms)**
16. Other Information

NFPA Rating
   Health: 1
   Fire: 3
   Reactivity: 0

HMIS Rating
   Health: 1
   Fire: 3
   Reactivity: 0
   Personal Protection: J

Revision/Preparer Information
MSDS Preparer: DF Goldsmith Chemical and Metal
MSDS Preparer Phone Number: 847-869-7800
This MSDS Supercedes A Previous MSDS Dated: 04/28/2008

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.

DF Goldsmith Chemical and Metal 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.