1. Product And Company Identification

Supplier
DF Goldsmith Chemical and Metal
909 Pitner Avenue
Evanston, IL 60202, USA
Telephone Number: 847-869-7800
FAX Number: 847-869-2531
E-mail: goldchem@aol.com
Web Site: www.dfgoldsmith.com

Manufacturer
DF Goldsmith Chemical and Metal
909 Pitner Avenue
Evanston, IL 60202, USA
Telephone Number: 847-869-7800
FAX Number: 847-869-2531
E-mail: goldchem@aol.com
Web Site: www.dfgoldsmith.com

Supplier Emergency Contacts & Phone Number
Chemtrac: 800-424-9300

2. Composition/Information On Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS Number</th>
<th>Percent Of Total Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iridium (IV) Oxide</td>
<td>12030-49-8</td>
<td>99.9</td>
</tr>
</tbody>
</table>

3. Hazards Identification

Primary Routes(s) Of Entry

- Eye: Likely
- Inhalation: Likely
- Skin: Likely
- Ingestion: Likely

EMERGENCY OVERVIEW

To the best of our knowledge the chemical, physical and toxicological properties of this compound have not been thoroughly investigated.
3. Hazards Identification (cont)

**Eye Hazards**
Irritation

**Skin Hazards**
Irritation. May be harmful if absorbed through the skin.

**Ingestion Hazards**
May be harmful if swallowed.

**Inhalation Hazards**
May cause irritation to the respiratory tract. May be harmful if inhaled.

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**
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. Contact a physician immediately.

5. Fire Fighting Measures

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

**Fire And Explosion Hazards**
Use proper safety equipment.

**Extinguishing Media**
Use media appropriate for surrounding fire conditions.
5. Fire Fighting Measures (cont.)

**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 for disposal or reclamation. Person protected with full face shield and NIOSH approved respirator and cartridge for dust. Ventilate area and wash spill site after pick up is completed.

### Handling & Storage (Pictograms)

7. Handling and Storage

**Handling Precautions**
Avoid contact with eyes, prolonged or repeated contact with skin. Avoid breathing dust. Ensure adequate ventilation.

**Storage Precautions**
Keep in a tightly sealed container in a cool, 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.

### Protective Clothing (Pictograms)

8. Exposure Controls/Personal Protection

**Engineering Controls**
- **Ventilation:** Required in handling area
- **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
8. Exposure Controls/Personal Protection (cont)

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

**Respiratory Protection**
NIOSH approved chemical cartridge respirator for particulates and dust or self-contained breathing apparatus with full face shield.

9. Physical And Chemical Properties

**Appearance**
Black powder

**Chemical Type:** Mixture  
**Physical State:** Solid  
**Melting Point:** 1100 (decomposes) °C  
**Specific Gravity:** 3.15  
**Molecular Weight:** 224.2  
**Solubility:** Insoluble

10. Stability And Reactivity

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

**Incompatible Materials**
Strong oxidizing agents.

**Hazardous Decomposition Products**
Not known.

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

**Proper Shipping Name**
Considered non-hazardous for transport

**Additional Shipping Paper Description**
IATA: Same as DOT regulations. Consult IATA regulations 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 the information required by the CPR.

DSL: Yes

16. Other Information

**NFPA Rating**
- Health: 1
- Fire: 0
- Reactivity: 0

**HMIS Rating**
- Health: 1
- Fire: 0
- 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: 08/09/2001

**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.