Material Safety Data Sheet

SPI #14167-AB Iridium Cathode

Section 1: Identification

Date Effective........... January 8, 2009
(most recent revision)

Chemical Name/Synonyms... Iridium Metal

Emergencies
Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...
Worldwide phone: 1-(703)-527-3887
Worldwide FAX: 1-(703)-741-6090
Toll-free phone: 1-(800)-424-9300 USA only

Product or Trade Name.... SPI #14167-AB Iridium Metal Cathode

Synonyms.................. n/a

Hazardous Material Information System USA

<table>
<thead>
<tr>
<th></th>
<th>Health</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fire Hazard</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Reactivity</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Personal Protection</td>
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</table>

NFPA Rating:

http://www.2spi.com/catalog/msds/msds014167.html
Section 2 Composition

<table>
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<tr>
<th>Component Name</th>
<th>CAS #</th>
<th>Percent</th>
<th>EINECS/ELINCS</th>
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<tr>
<td>Iridium Metal</td>
<td>7439-88-5</td>
<td>100</td>
<td>231-095-9</td>
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</tbody>
</table>

Section 3: Hazard Identification

Emergency overview: Not applicable

Appearance: silver gray metal

Flash Point: Not applicable

Section 4: First Aid Measures

Eyes: Rinse under running water for several minutes. Seek medical treatment if symptoms persist.

Skin: Generally will not irritate the skin.

Ingestion: If swallowed, seek medical attention.

Inhalation: In case of symptoms, seek medical attention.

Section 5: Fire Fighting Measures
General Information:
This product is not flammable. Use fire fighting measures appropriate to the surrounding fire.

Protective Equipment:
No special measures required.

Section 6: Accidental Release Measures

General Information:
Personal safety precautions not required.

Spills/Leaks:
Pick up mechanically.

Section 7: Handling and Storage

Handling:
No special precautions required if used correctly.
The usual precautionary measures for handling chemicals should be followed.

Storage:
Store in cool, dry place.
No special measures required.

Section 8: Exposure Controls and Personal Protection

Engineering Controls:
No special equipment required.
Personal Protective Equipment

Eyes: Safety glasses
Skin: Gloves
Clothing: Protective work clothing
Respirators: Not required
Engineering Controls: Not required

Section 9: Physical and Chemical Properties

Physical State: metal
Appearance: silver gray
Odor: odorless
pH: not applicable
Vapor Pressure: not available
Vapor Density: not available
Evaporation Rate: not available
Viscosity: not available
Boiling Point: 5300°C
Freezing/Melting Point: 2425°C
Autoignition Temperature: Not available
Flash Point: Not available
Decomposition Temperature: Not available
Explosion Limits
  Lower: Not available
  Upper: Not available
Solubility in water: insoluble
Specific Gravity/Density: 22.65 g/cm3 at 20°C
Molecular Formula: Ir
Formula Weight: 192.2

Section 10: Stability and Reactivity

Chemical Stability: Stable
Incompatibility with Other Materials:
Halogens, Interhalogens

Hazardous Decomposition of Products:
Decomposition will not occur if used and stored according to specifications.

Hazardous Polymerization:
Will not occur.

Section 11: Toxicological Information

Acute toxicity: None known

Skin: No irritant effect

Eyes: No irritant effect.

Sensitization: None known

Other:
The toxicity of iridium is not known. It is predicted to be similar to that of osmium and platinum, two members of the same group. The acute and chronic toxicity of this substance is not fully known.

CAS# 7439-88-5 is not listed by EPA, IARC, NTP, OSHA or ACGIH.

Section 12: Ecological Information

Exotoxicity: Not known.

Do not permit release to the environment without proper governmental permits.
Section 13: Disposal Considerations

Dispose of in accordance with all federal, state and local regulations.

RCRA P-Series: none
RCRA U-Series: none

Section 14: Transport Information

This material is not hazardous for transportation.

US DOT Hazard Class: Not regulated

IATA (for international shipments): Not regulated

Section 15: Regulatory Information

United States:

TSCA
This material is listed on the TSCA Inventory.

European/International Regulations:
European Labeling in Accordance with EC Directives
Not classified

Section 16: Other Information

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http://www.2spi.com/catalog/msds/msds014187.html
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