



Health	2
Fire	0
Reactivity	0
Personal Protection	E

# Material Safety Data Sheet

## Iridium Trichloride MSDS

### Section 1: Chemical Product and Company Identification

<p><b>Product Name:</b> Iridium Trichloride</p> <p><b>Catalog Codes:</b> 10818</p> <p><b>CAS#:</b> 13569-57-8</p> <p><b>RTECS:</b> Not available</p> <p><b>TSCA:</b> Not available</p> <p><b>CI#:</b> Not available</p> <p><b>Synonym:</b> Iridium(III) Chloride</p> <p><b>Chemical Formula:</b> IrCl<sub>3</sub></p>	<p><b>Contact Information:</b></p> <p><b>Finar Limited</b></p> <p>184-186/P, Chacharwadi Vasna, Sarkhej-Bavla Highway, Ta.: Sanand, Dist.: Ahmedabad, Email: info@finarchemicals.com Web: www.finarchemicals.com</p>
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### Section 2: Composition and Information on Ingredients

<b>Composition:</b>		
Name	CAS #	% by Weight
Iridium Trichloride	13569-57-8	46.00%

### Section 3: Hazards Identification

<p><b>Potential Health Effects</b></p> <p><b>Eye:</b> May cause eye irritation. The toxicological properties of this material have not been fully investigated.</p> <p><b>Skin:</b> May cause skin irritation. The toxicological properties of this material have not been fully investigated.</p> <p><b>Ingestion:</b> May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.</p> <p><b>Inhalation:</b> May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.</p> <p><b>Potential Chronic Health Effects:</b> No information found</p>
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### Section 4: First Aid Measures

<p><b>Eyes:</b> Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.</p> <p><b>Skin:</b> Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.</p> <p><b>Ingestion:</b> If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious</p>
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person. Get medical aid immediately.

**Inhalation:**

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

### Section 5: Fire and Explosion Data

**General**

**Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:**

Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

**Autoignition Temperature:** Not available

**Flash Point:** 763 deg C ( 1,405.40 deg F)

**Explosion Limits Lower:** Not available

**Explosion Limits Upper:** Not available

**NFPA Rating:** NFPA Rating:

### Section 6: Accidental Release Measures

**General Information:**

Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Provide ventilation

### Section 7: Handling and Storage

**Handling:**

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

**Storage:**

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

### Section 8: Exposure Controls/Personal Protection

**OSHA Vacated PELs:** Iridium (III) Chloride Trihydrate: None listed

**Engineering Controls:** Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits**

**Personal Protective Equipment**

**Eyes:**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:**

Wear appropriate protective gloves to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to prevent skin exposure.

**Respirators:**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### Section 9: Physical and Chemical Properties

**Physical State:** Crystalline powder

**Color:** Dark green-black

**Odor:** None reported.

pH: Not available  
**Vapor Pressure:** Not available  
**Vapor Density:** Not available  
**Evaporation Rate:** Not available  
**Viscosity:** Not available  
**Boiling Point:** Not available  
**Freezing/Melting Point:** 763 deg C  
**Decomposition Temperature:**  
**Solubility in water:** insoluble  
**Specific Gravity/Density:** 5.3000g/cm3  
**Molecular Formula:** Cl3Ir.3H2O  
**Molecular Weight:** 352.60

### Section 10: Stability and Reactivity Data

**Chemical Stability:** Stable under normal temperatures and pressures.  
**Conditions to Avoid:** Incompatible materials, strong oxidants.  
**Incompatibilities with Other Materials :** Not available  
**Hazardous Decomposition Products:** Hydrogen chloride, hydrogen chloride  
**Hazardous Polymerization:** Has not been reported

### Section 11: Toxicological Information

**LD50/LC50: RTECS:** Not available  
**Carcinogenicity:** Iridium (III) Chloride Trihydrate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

### Section 12: Ecological Information

Not available

### Section 13: Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

### Section 14: Transport Information

**US DOT**  
**Shipping Name:** Not regulated as a hazardous material  
**Shipping Name:** Not available  
**Hazard Class:** Not available  
**UN Number:** Not available  
**Packing Group:** Not available

### Section 15: Other Regulatory Information

European/International Regulations  
European Labeling in Accordance with EC Directives  
**Hazard Symbols:** Not available  
**Risk Phrases:**  
**Safety Phrases:**  
S 24/25 Avoid contact with skin and eyes.  
S 28A After contact with skin, wash immediately with plenty of water.  
S 37 Wear suitable gloves.  
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)  
WGK (Water Danger/Protection)  
**CAS# 13569-57-8:** Not available  
**Canada**  
**Canadian WHMIS Classifications:** Not available  
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.  
CAS# 13569-57-8 is not listed on Canada's Ingredient Disclosure List.

**US Federal**

TSCA

CAS# 13569-57-8 is not listed on the TSCA Inventory. It is for research and development

**Section 16: Other Information****References:** Not available.**Other Special Considerations:** Not available.**Created:** 10/06/2010**Last Updated:** 24/11/2012

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