SAFETY DATA SHEET: CESIUM CHLORIDE

1. IDENTIFICATION

Product Name: CESIUM CHLORIDE
Synonyms: Cesium monochloride; Dicesium dichloride; Hydrochloric acid cesium salt
Formula and Formula Weight: CsCl 168.37
Integra numbers beginning with: C386.10
Recommended Use: Commercial/industrial use
Restrictions on Use: No information available

INTEGRA Chemical Company
24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)
1216 6th Ave N
Kent WA 98032
Phone: 253-479-7000

2. HAZARDS IDENTIFICATION

OSHAs 2 Classification: Toxic to Reproduction
Hazard Category: 2
Hazard Statement: Suspected of damaging fertility or the unborn child.

Signal Word: Warning

Precautionary Statements
Prevention: Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves, protective clothing, eye protection, face protection.

Response: If exposed or concerned: Get medical advice, attention.

Storage: Store locked up.

Disposal: Dispose of contents, container in accordance with all governmental regulations.

Hazard Not Otherwise Classified: No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Synonyms</th>
<th>CAS #</th>
<th>% Weight</th>
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<tbody>
<tr>
<td>Cesium chloride</td>
<td></td>
<td>07647-17-8</td>
<td>100</td>
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4. FIRST AID MEASURES

Inhalation: Remove person to fresh air and keep comfortable for breathing.
Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.
Skin Contact: Flush skin with plenty of water. Seek medical attention if irritation develops.
Ingestion: Do not induce vomiting. Rinse mouth. If adverse symptoms develop, seek medical attention.
Additional notes: Symptoms and effects include eye, respiratory irritation.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water spray, carbon dioxide, dry chemical or foam.
Special Equipment and Precautions: Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.
Specific Hazards: None identified
Hazardous combustion products: Hydrogen chloride

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Prevent spread of spill. Wear suitable protective equipment. Sweep or scoop into clean, dry disposal container. Flush spill area with water.

7. HANDLING AND STORAGE

Storage and Handling: Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers tightly closed and protect them from physical damage.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves, protective clothing, eye protection, face protection.
8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OSHA & ACGIH Exposure Limits:
Cesium chloride None identified

Engineering Controls: Use adequate general or local exhaust ventilation to keep fume and/or dust levels as low as possible.
Respiratory Protection: If use generates annoying or irritating dusts, mists or vapors, use a NIOSH approved respirator with a particulate filter.
Skin/Eye Protective Equipment: Safety goggles, protective clothing and gloves appropriate for the risk of exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless or white deliquescent crystals
Odor: Odorless
Odor Threshold: Not available
pH: 6.0 - 7.5
Melting/Freezing Point: 646 °C
Initial Boiling Point and Boiling Range: 1303 °C
Flash Point: Not available
Evaporation Rate: Not available
Flammability: Not available
Flammable or Explosive: Upper: Not available
 Limits (% by volume in air) Lower: Not available
Vapor Pressure: Not available
Vapor Density: Not available
Relative Density: 3.99 g/cc
Solubility: Very soluble in water
Partition Coefficient: n-octanol/water Not available
Auto-Ignition Temperature: Not available
Decomposition Temperature: Not available
Viscosity: Not available

10. STABILITY AND REACTIVITY

Reactivity: No information available
Stability: Stable
Possibility of Hazardous Reactions: Hazardous polymerization will not occur
Conditions to Avoid: Moisture.
Incompatibles: Incompatible with strong acids and strong oxidizers. Bromine trichloride, bromine trifluoride.
Decomposition Products: Hydrogen chloride

11. TOXICOLOGICAL INFORMATION

Effects of Over Exposure:
Inhalation: Inhalation may irritate the nose, throat and upper respiratory tract.
Skin Contact: No information available.
Eye Contact: Contact may be irritating to the eyes.
Ingestion: No information available
Chronic Effects: None identified
Target Organs: None identified
Additional Effects: None identified
Reproductive Effects: May damage fertility or the unborn child.
Carcinogenicity: None identified

Toxicity Data:
Cesium chloride LD50 (oral, mouse) 2300 mg/kg

12. ECOLOGICAL INFORMATION

Aquatic Toxicity Data: No information available
Terrestrial Toxicity Data: No information available
Cesium chloride Persistence and degradability: No information available
Bioaccumulative potential: No information available
Mobility in soil: No information available
Other adverse effects: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.
14. TRANSPORTATION INFORMATION
This product is not a regulated material for domestic ground transporation.

Environmental hazards: No information available  
Special precautions: No information available  
Bulk transport: No information available

15. REGULATORY INFORMATION
Cesium chloride is listed in the TSCA inventory.

16. OTHER INFORMATION

NE = Not established, NA = Not applicable or Not available

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***** END OF SDS *****