Product Identification

Product Name: LANTHANUM CHLORIDE

Synonyms:

Chemical Formula: LaCl3 7H2O

Formula Weight: 371.38

Chemical Family:

Integra Product Numbers: L171.10

Hazard Overview

HMIS Rating: 1-0-0-B NFPA Rating: NE

Warning Label:

Caution.

Use safe chemical handling practices. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

Components

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lanthanum chloride</td>
<td>10099-58-8</td>
<td>100</td>
</tr>
</tbody>
</table>

Physical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>NA</td>
</tr>
<tr>
<td>Melting Point</td>
<td>872 °C</td>
</tr>
<tr>
<td>Specific Gravity (anhydrous)</td>
<td>3.842</td>
</tr>
<tr>
<td>Water=1</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>NA</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>NA</td>
</tr>
<tr>
<td>Air = 1</td>
<td></td>
</tr>
</tbody>
</table>

Solubility:

Appreciably soluble (>10%) in water.

Appearance and Odor:

Colorless to white crystalline solid.

Fire and Explosion Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>NA</td>
</tr>
<tr>
<td>Test Method:</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>NA</td>
</tr>
<tr>
<td>Flammable Limits (% by volume in air)</td>
<td>Upper: NA</td>
</tr>
<tr>
<td>Lower: NA</td>
<td></td>
</tr>
</tbody>
</table>

Fire Extinguishing Media:

Material is not flammable. Use extinguishing media suitable to surrounding materials.

Special Firefighting Procedures:

Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.

Unusual Fire and Explosion Hazards:

None identified

Health Hazard Information

Effects of Overexposure

Skin Contact:

May cause skin irritation. On prolonged contact, or when contacted in the presence of moisture, superficial skin burns may result.
Health Hazard Information

Eye Contact:
May irritate or burn the eyes.

Ingestion:
No Information Available.

Inhalation:
No Information Available.

Chronic Effects of Overexposure:
No Information Available.

Target Organs:
No Information Available.

Reproductive Effects:
No Information Available.

Carcinogenicity:
None Identified

Component
Lanthanum chloride

NTP Listing
No listing

IARC Listing
No listing

OSHA Regulated

Toxicity Data:
Lanthanum chloride
LD50 (oral, rat) 4200 mg/kg

Medical Conditions Generally Aggravated by Exposure:
No Information Available.

Exposure Limits:

<table>
<thead>
<tr>
<th>Component</th>
<th>TWA</th>
<th>STEL</th>
<th>Ceiling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lanthanum chloride</td>
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<td>NE</td>
</tr>
</tbody>
</table>

OSHA PEL

<table>
<thead>
<tr>
<th>Component</th>
<th>TWA</th>
<th>STEL</th>
<th>Ceiling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lanthanum chloride</td>
<td>NE</td>
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<td>NE</td>
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</table>

ACGIH TLV

Emergency First Aid Procedures

Skin Contact:
Flush skin with plenty of water. Seek medical attention if irritation develops.

Eye Contact:
Flush eyes with water for at least 15 minutes. Seek medical attention.

Inhalation:
Remove to fresh air.

Ingestion:
If conscious, give victim large amounts of water. Seek medical attention.

Additional First aid and Treatment Notes:
No information available

Reactivity Data

Stability:
Stable
Reactivity Data

Hazardous Polymerization: Will Not Occur

Incompatibles:
No information available.

Decomposition Products:
Hydrogen chloride

Conditions to Avoid:
No information available.

Spill and Disposal Procedures

Spill and Leak Procedures:
Prevent spread of spill. Sweep or scoop into disposal container. Flush residues with water. Wear suitable protective equipment.

Disposal Procedures:
Dispose in accordance with all Local, State and Federal regulations.

Protective Equipment

Ventilation:
Use adequate general or local exhaust ventilation to keep fume and/or dust levels as low as possible.

Respiratory Protection:
None needed unless use generates annoying or irritating dusts, mists or vapors. Use a dust/mist respirator mask if necessary.

Skin and Eye Protective Equipment:
Safety glasses. Use good chemical handling practices.

Storage and Handling Precautions

Storage Area: GENERAL
Store in a cool, dry area. Keep away from incompatible substances. Protect from direct light and minimize contact with air. Protect containers from physical damage.

Transportation Information

☐ Regulated Material domestic ground transportation
(reference: CFR Title 49, Transportation)

Proper Shipping Name:
UN or NA Identification number: Hazard Class and Label:
Packing Group: Subsidiary Risk and Label:

☐ Regulated Material via Air Transportation
(reference: ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air)

Proper Shipping Name:
UN Identification Number: Hazard Class and Label:
Packing Group: Subsidiary Risk and Label:
LANTHANUM CHLORIDE
MATERIAL SAFETY DATA SHEET

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

MSDS Number: L171
Revision Date: 16-Apr-08
Revision No.: 003

Transportation Information

<table>
<thead>
<tr>
<th>Packing Instruction</th>
<th>Max net qty per package</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passenger Aircraft</td>
<td></td>
</tr>
<tr>
<td>Cargo Aircraft</td>
<td></td>
</tr>
</tbody>
</table>

Regulatory Information

<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA Inventory</th>
<th>CERCLA RQ</th>
<th>SARA EHS TPQ</th>
<th>SARA 313 Toxic Release</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lanthanum chloride</td>
<td>☑</td>
<td></td>
<td></td>
<td>de minimus</td>
</tr>
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</table>

Lanthanum chloride

SARA Hazard Categories:
- Acute
- Chronic
- Flammability
- Pressure
- Reactivity

Clean Air Act Categories:
- SOCMI
- HAP
- Volatile HAP
- Organic HAP
- Ozone Depleting

MSDS Revision History:
- 002 - Format revisions; updated header phone number
- 003 - Updated Header Information

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

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