LITHIUM 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: L680
Revision Date: 16-Apr-08
Revision No.: 004

Product Identification

Product Name: LITHIUM CHLORIDE
Synonyms:
Chemical Formula: LiCl
Formula Weight: 42.39
Chemical Family:
Integra Product Numbers: L680.10

Physical Data

Boiling Point: 1360 °C
Melting Point: 613 °C
Vapor Pressure: NA
Water=1
Air = 1

Components

Component: Lithium chloride
CAS #: 07447-41-8
%: 100

Hazard Overview

Warning Label: Warning.
May be harmful if swallowed or inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing dust. Wash thoroughly after handling. May cause severe skin irritation.

Fire and Explosion Data

Flash Point: NA
Auto-ignition Temperature: NA

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

Fire Extinguishing Media:
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:
Causes skin irritation. Irritation may be severe.
Health Hazard Information

Eye Contact:
May irritate or burn the eyes.

Ingestion:
Harmful if swallowed. Ingestion may cause headache, dizziness, nausea, vomiting, gastrointestinal irritation. In severe cases symptoms may include apathy, sluggishness, drowsiness, slurred speech, blurred vision, irregular eye movements, weakness, incoordination, lethargy, heart effects, tremors, muscle twitching, ringing in the ears.

Inhalation:
Inhalation may irritate the nose, throat and upper respiratory tract. May be absorbed through the respiratory system with symptoms similar to ingestion.

Chronic Effects of Overexposure:
Repeated or prolonged exposure via ingestion may cause chronic symptoms similar to acute ingestion poisoning.

Exposure Limits:

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<thead>
<tr>
<th>Component</th>
<th>TWA</th>
<th>OSHA PEL</th>
<th>Ceiling</th>
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ACGIH TLV

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Toxicity Data:

Lithium chloride LD50 (oral, rat) 526 mg/kg

Medical Conditions Generally Aggravated by Exposure:
None Identified

Target Organs:
None Identified

Reproductive Effects:
None Identified

Carcinogenicity:
None Identified

Component NTP Listing IARC Listing OSHA Regulated
Lithium chloride No listing No listing

Emergency First Aid Procedures

Skin Contact:
Wash with soap and water. Seek medical attention if irritation develops.

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

Inhalation:
Remove to fresh air.

Ingestion:
Give victim large amounts of water and induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention.

Additional First aid and Treatment Notes:
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Emergency First Aid Procedures

No information available

Reactivity Data

Stability: Stable
Hazardous Polymerization: Will Not Occur
Incompatibles:
Bromine trifluoride.
Decomposition Products:
Chlorine.

Conditions to Avoid:
Moisture.

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 goggles, protective clothing and gloves. Maintain an eyewash station and safety shower nearby.

Storage and Handling Precautions

Storage Area: GENERAL
Store in a cool, dry, well-ventilated area. Store away from incompatible materials. 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)
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Transportation Information

Proper Shipping Name:
UN Identification Number: Hazard Class and Label:
Packing Group: Subsidiary Risk and Label:
Packing Instruction Max net qty per package
Passenger Aircraft:
Cargo Aircraft:

Regulatory Information

Component TSCA CERCLA SARA EHS SARA 313 Toxic Release
Lithium chloride ✓ RQ lbs ✓ lbs ✓ lbs de minimus

SARA Hazard Categories: Acute Chronic Flammability Pressure Reactivity
Lithium chloride ✓ ✓ ✓ ✓ ✓

Clean Air Act Categories: SOCMII HAP Volatile HAP Organic HAP Ozone Depleting
Lithium chloride ✓ ✓ ✓ ✓ ✓

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

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

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