Section 1 - Chemical Product and Company Identification

MSDS Name: Lithium chloride, anhydrous
Catalog Numbers: 19988-0000, 19988-0020, 19988-0050, 19988-1000, 19988-5000, 41327-0000, 41327-0020, 41327-0050, 41327-5000
Synonyms: Acros Organics BVBA
Company Identification: Janssen Pharmaceuticaalnaan 3a
Company Identification: (USA) One Reagent Lane
For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#  Chemical Name: %  EINECS#
7447-41-8 Lithium chloride 99% 231-212-3

Hazard Symbols: XN
Risk Phrases: 21/22 36/38

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Harmful in contact with skin and if swallowed. Irritating to eyes and skin.

Potential Health Effects
Eye: Causes moderate eye irritation. Causes redness and pain. May cause visual abnormalities including: blurring, abnormal color vision, loss of sight.
Skin: Causes severe skin irritation. Harmful if absorbed through the skin. Repeated or prolonged exposure may cause drying and cracking of the skin.

Harmful if swallowed. May cause nausea and vomiting. May cause blood electrolyte disturbances. Large doses of lithium may cause dizziness, prostration, and kidney damage. Dehydration, weight loss, slurred speech, blurred vision, sensory loss, ataxia (failure of muscular coordination), tremors, and convulsions may occur. May cause central nervous system effects including nervousness, drowsiness and convulsions.

Ingestion: May cause respiratory tract irritation. Symptoms of exposure include: increased secretions, cough, pain or respiration.

Prolonged absorption may affect electrolyte balance and impair kidney function.

Chronic: Chronic exposure to lithium salts may cause drowsiness, visual abnormalities, weakness, ringing in the ears, and muscle tremors. Possible risk of harm to the unborn child. May impair fertility.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid. Wash mouth out with water.

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 if cough or other symptoms appear.

Notes to Physician:

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

Section 7 - Handling and Storage

Handling: Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Use only in a chemical fume hood.

Storage: Store in a cool, dry place. Do not store in direct sunlight. Store in a tightly closed container.
Section 8 - Exposure Controls, Personal Protection

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

Exposure Limits
CAS# 7447-41-8:

Personal Protective Equipment
Eyes: Wear chemical splash goggles.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.

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 Respirators: approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Granules
Color: white
Odor: Not available
pH: 7-8 (50 g/L aq.sol.)
Vapor Pressure: 1.33hPa @547 deg C
Viscosity: Not available
Boiling Point: 1382 deg C @760mmHg (2,519.60°F)
Freezing/Melting Point: 605 deg C (1,121.00°F)
Autoignition Temperature: Not available
Flash Point: Not available
Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
Decomposition Temperature: Not available
Solubility in water: 832 g/l (20°C)
Specific Gravity/Density: 2.060
Molecular Formula: ClLi
Molecular Weight: 42.38

Section 10 - Stability and Reactivity

Chemical Stability: Hygroscopic: absorbs moisture or water from the air.
Conditions to Avoid: Incompatible materials, light, exposure to moist air or water,
Aqueous solutions are very mildly corrosive to most metals..
Incompatibilities with Other Materials
Strong oxidizing agents, strong acids, alkali metals, bromine trifluoride, halogens, sulfuric acid.

Hazardous Decomposition Products
Hydrogen chloride, chlorine, lithium oxide.

Hazardous Polymerization
Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 7447-41-8: OJ5950000

RTECS:
**CAS# 7447-41-8:** Draize test, rabbit, eye: 100 mg/24H Moderate;
Draize test, rabbit, skin: 500 mg/24H Severe;
Oral, mouse: LD50 = 1165 mg/kg;
Oral, mouse: LD50 = 1165 mg/kg;
Oral, rabbit: LD50 = 800 mg/kg;
LD50/LC50:
Oral, rabbit: LD50 = 775 mg/kg;
Oral, rat: LD50 = 526 mg/kg;
Oral, rat: LD50 = 1530 mg/kg;
Skin, rabbit: LD50 = 1629 mg/kg;
Skin, rat: LD50 = 1488 mg/kg;

Other:
Lithium chloride - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other:
The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Ecotoxicity:
Daphnia: Daphnia: 7.2 mg/L; LC50

Non-biodegradable.
Other: no photodegradationno bioaccumulationnatural salt ionized to Li+ and Cl-Log Kow = -2.7
Section 13 - Disposal Considerations
Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

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Shipping Name: Not regulated.
Hazard Class: Not regulated.
UN Number: Not regulated.
Packing Group: Not regulated.

Section 15 - Regulatory Information
European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: XN
Risk Phrases:
R 21/22 Harmful in contact with skin and if swallowed.
R 36/38 Irritating to eyes and skin.
Safety Phrases:
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

WGK (Water Danger/Protection)
CAS# 7447-41-8: 1

Canada
CAS# 7447-41-8 is listed on Canada's DSL List

US Federal
TSCA
CAS# 7447-41-8 is listed on the TSCA Inventory.

Section 16 - Other Information
MSDS Creation Date: 9/12/1996
Revision #2 Date 7/03/2006
Revisions were made in Sections: 3, 14

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to
such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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