

## SAFETY DATA SHEET

**Lith****LiCl98**  
**LITHIUM CHLORIDE**  
Anhydrous

ASG Chemical Holdings, LLC. (ASG Chemie)

Chemwatch: 31000

Version No: 4.1.1.1

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Chemwatch Hazard Alert Code: 2

Issue Date: 27/06/2017

Print Date: 15/05/2020

S.GHS.USA.EN

**SECTION 1 Identification****Product Identifier**

Product name	LiCl98 LITHIUM CHLORIDE ANHYDROUS
Chemical Name	lithium chloride
Synonyms	Cl-Li; LiCl; lithium chloride, monohydrate (CAS RN: 16712-20-2); lithium chloride dried; lithium chloride hydrate; lithium chloride crystals, UNILAB; lithium chloride dried, UNILAB; lithium chloride
Chemical formula	CLi.H2O CLi
Other means of identification	Not Available
CAS number	7447-41-8

**Recommended use of the chemical and restrictions on use**

Relevant identified uses	Used in air conditioners, welding and brazing fluxes, dry batteries, heat exchange media, salt baths, desiccants, production of lithium metal, in soft drinks and mineral water, in pyrotechnics, refrigerating machines and in anti-depressant drugs.
--------------------------	--

**Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party**

Registered company name	ASG Chemical Holdings (ASG Chemie)
Address	2603 NW 13th St. Florida 32609 United States
Telephone	+13524321481
Fax	Not Available
Website	www.asgchemie.com
Email	compliance@asgchemie.com

**Emergency phone number**

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	+1 800951288 , +1 855 237 5573
Other emergency telephone numbers	+61 2 9186 1132

Once connected and if the message is not in your preferred language then please dial 01  
Una vez conectado y si el mensaje no está en su idioma preferido, por favor marque 02

Lithium Salts of America is a Division of ASG Chemical Holdings, LLC (ASG Chemie) • www.lithiumsalts.com  
2603 NW 13th St. #231 Gainesville, FL 32609 • Main : 352.432.1481 • Fax : 352.430.7442 • Toll Free : 1.833.LITHUSA (548.4872)

©2023 Lithium Salts of America (LITH). All Rights Reserved. Lith logo and ASG Chemie are trademarks of ASG Chemical Holdings, LLC.

**SECTION 2 Hazard(s) identification**

Classification of the substance or mixture

Considered a Hazardous Substance by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). Not classified as Dangerous Goods for transport purposes.

NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification Carcinogenicity Category 2, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Acute Toxicity (Oral) Category 4, Acute Aquatic Hazard Category 3, Eye Irritation Category 2A, Reproductive Toxicity Category 2

**Label elements**

Hazard pictogram(s)



Signal word **WARNING**

**Hazard statement(s)**

- H351 Suspected of causing cancer.
- H335 May cause respiratory irritation.
- H302 Harmful if swallowed.
- H402 Harmful to aquatic life.
- H319 Causes serious eye irritation.
- H361 Suspected of damaging fertility or the unborn child.

**Hazard(s) not otherwise classified**

Not Applicable

**Precautionary statement(s) Prevention**

- P201 Obtain special instructions before use.
- P271 Use only outdoors or in a well-ventilated area.
- P281 Use personal protective equipment as required.
- P261 Avoid breathing dust/fumes.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statement(s) Response**

- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P330 Rinse mouth.

**Precautionary statement(s) Storage**

- P405 Store locked up.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.

**Precautionary statement(s) Disposal**

- P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

**SECTION 3 Composition / information on ingredients**

**Substances**

CAS No	%[weight]	Name
7447-41-8	99	lithium chloride

**Mixtures**

See section above for composition of Substances

**SECTION 4 First-aid measures**

Description of first aid measures

<b>Eye Contact</b>	<p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> <li>• Wash out immediately with fresh running water.</li> <li>• Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>• Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>• Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
<b>Skin Contact</b>	<p>If skin contact occurs:</p> <ul style="list-style-type: none"> <li>• Immediately remove all contaminated clothing, including footwear.</li> <li>• Flush skin and hair with running water (and soap if available).</li> <li>• Seek medical attention in event of irritation.</li> </ul>
<b>Inhalation</b>	<ul style="list-style-type: none"> <li>• If fumes or combustion products are inhaled remove from contaminated area.</li> <li>• Lay patient down. Keep warm and rested.</li> <li>• Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>• Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained.</li> <li>• Perform CPR if necessary.</li> <li>• Transport to hospital, or doctor, without delay.</li> </ul> <p><b>This must definitely be left to a doctor or person authorised by him/her.</b></p>
<b>Ingestion</b>	<ul style="list-style-type: none"> <li>• <b>IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.</b></li> <li>• For advice, contact a Poisons Information Centre or a doctor.</li> <li>• Urgent hospital treatment is likely to be needed.</li> <li>• In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.</li> <li>• If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.</li> <li>• If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.</li> </ul> <p>Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:</p> <p>INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</p> <p><b>NOTE:</b> Wear a protective glove when inducing vomiting by mechanical means.</p>

**Most important symptoms and effects, both acute and delayed**

See Section 11

**Indication of any immediate medical attention and special treatment needed**

Clinical effects of lithium intoxication appear to relate to duration of exposure as well as to level.

- Lithium produces a generalised slowing of the electroencephalogram; the anion gap may increase in severe cases.
- Emesis (or lavage if the patient is obtunded or convulsing) is indicated for ingestions exceeding 40 mg (Li)/Kg.
- Overdose may delay absorption; decontamination measures may be more effective several hours after cathartics.
- Charcoal is not useful. No clinical data are available to guide the administration of catharsis.
- Haemodialysis significantly increases lithium clearance; indications for haemodialysis include patients with serum levels above 4 meq/L.
- There are no antidotes.

[Ellenhorn and Barceloux: Medical Toxicology]

**SECTION 5 Fire-fighting measures****Extinguishing media**

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

**Special hazards arising from the substrate or mixture**

Fire Incompatibility	None known.
----------------------	-------------

**Special protective equipment and precautions for fire-fighters**

## Fire Fighting

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves in the event of a fire.
- Prevent, by any means available, spillage from entering drains or water courses.
- Use fire fighting procedures suitable for surrounding area.

## Fire/Explosion Hazard

- Non combustible.
  - Not considered a significant fire risk, however containers may burn.
- Decomposition may produce toxic fumes of:
- hydrogen chloride
  - metal oxides
  - May emit poisonous fumes.
  - May emit corrosive fumes.

**SECTION 6 Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

See section 8

**Environmental precautions**

See section 12

**Methods and material for containment and cleaning up**

Minor Spills	<ul style="list-style-type: none"> <li>• Clean up waste regularly and abnormal spills immediately.</li> <li>• Avoid breathing dust and contact with skin and eyes.</li> <li>• Wear protective clothing, gloves, safety glasses and dust respirator.</li> <li>• Use dry clean up procedures and avoid generating dust.</li> </ul>
Major Spills	<p>Moderate hazard.</p> <ul style="list-style-type: none"> <li>• CAUTION: Advise personnel in area.</li> <li>• Alert Emergency Services and tell them location and nature of hazard.</li> <li>• Control personal contact by wearing protective clothing.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

**SECTION 7 Handling and storage**

**Precautions for safe handling**

Safe handling	<ul style="list-style-type: none"> <li>• Avoid all personal contact, including inhalation.</li> <li>• Wear protective clothing when risk of exposure occurs.</li> <li>• Use in a well-ventilated area.</li> <li>• Prevent concentration in hollows and sumps.</li> </ul>
Other information	<ul style="list-style-type: none"> <li>• Store in original containers.</li> <li>• Keep containers securely sealed.</li> <li>• Store in a cool, dry, well-ventilated area.</li> <li>• Store away from incompatible materials and foodstuff containers.</li> </ul>

**Conditions for safe storage, including any incompatibilities**

Suitable container	<ul style="list-style-type: none"> <li>• Polyethylene or polypropylene container.</li> <li>• Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	<ul style="list-style-type: none"> <li>• Metals and their oxides or salts may react violently with chlorine trifluoride and bromine trifluoride.</li> <li>• These trifluorides are hypergolic oxidisers. They ignite on contact (without external source of heat or ignition) with recognised fuels - contact with these materials, following an ambient or slightly elevated temperature, is often violent and may produce ignition.</li> <li>• The state of subdivision may affect the results.</li> <li>• Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.</li> <li>• Contact with permanganate or BrF3 may evolve heat or toxic fumes.</li> </ul>



+ — May be stored together  
 X — Must not be stored together  
 O — May be stored together with specific preventions  
 + — May be stored together

**SECTION 8 Exposure controls / personal protection**

**Control parameters**

**Occupational Exposure Limits (OEL)**

INGREDIENT DATA Not Available

**Emergency Limits**

Ingredient	TEEL-1	TEEL-2	TEEL-3
lithium chloride	Lithium chloride	2.3 mg/m3	25 mg/m3

Ingredient	Original IDLH	Revised IDLH
lithium chloride	Not Available	Not Available

**OCCUPATIONAL EXPOSURE BANDING**

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
lithium chloride	E	≤ 0.01 mg/m <sup>3</sup>

**Exposure controls**

**Appropriate engineering controls**

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

**Personal protection**



**Eye and face protection**

- Safety glasses with side shields.
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

**Skin protection**

See Hand protection below

**Hands/feet protection**

- The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.
- Personal hygiene is a key element of effective hand care.

**Body protection**

See Other protection below

**Other protection**

- Overalls.
- P.V.C apron.
- Barrier cream.

**Respiratory protection**

- Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)
- Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
  - The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
  - Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
  - Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
  - Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
  - Use approved positive flow mask if significant quantities of dust becomes airborne.
  - Try to avoid creating dust conditions.

## SECTION 9 Physical and chemical properties

### Information on basic physical and chemical properties

<b>Appearance</b>	White cubic crystals or powder; odourless. Sharp saline taste. Very soluble in water, alcohols, ether, pyridine and nitrobenzene.		
<b>Physical state</b>	Divided Solid	<b>Relative density (Water = 1)</b>	2.065
<b>Odour</b>	Not Available	<b>Partition coefficient n-octanol / water</b>	Not Available
<b>Odour threshold</b>	Not Available	<b>Auto-ignition temperature (°C)</b>	Not Applicable
<b>pH (as supplied)</b>	Not Available	<b>Decomposition temperature (°C)</b>	Not Available
<b>Melting point / freezing point (°C)</b>	605	<b>Viscosity (cSt)</b>	Not Applicable
<b>Initial boiling point and boiling range (°C)</b>	1325-1360	<b>Molecular weight (g/mol)</b>	42.39
<b>Flash point (°C)</b>	Not Applicable	<b>Taste</b>	Not Available
<b>Evaporation rate</b>	Not Applicable	<b>Explosive properties</b>	Not Available
<b>Flammability</b>	Not Applicable	<b>Oxidising properties</b>	Not Available
<b>Upper Explosive Limit (%)</b>	Not Applicable	<b>Surface Tension (dyn/cm or mN/m)</b>	Not Applicable
<b>Lower Explosive Limit (%)</b>	Not Applicable	<b>Volatile Component (%vol)</b>	Not Applicable
<b>Vapour pressure (kPa)</b>	Negligible	<b>Gas group</b>	Not Available
<b>Solubility in water</b>	Miscible	<b>pH as a solution (1%)</b>	Not Available
<b>Vapour density (Air = 1)</b>	Not Applicable	<b>VOC g/L</b>	Not Available

## SECTION 10 Stability and reactivity

<b>Reactivity</b>	See section 7
<b>Chemical stability</b>	<ul style="list-style-type: none"> <li>• Unstable in the presence of incompatible materials.</li> <li>• Product is considered stable.</li> <li>• Hazardous polymerisation will not occur.</li> </ul>
<b>Possibility of hazardous reactions</b>	See section 7
<b>Conditions to avoid</b>	See section 7
<b>Incompatible materials</b>	See section 7
<b>Hazardous decomposition products</b>	See section 5

## SECTION 11 Toxicological information

### Information on toxicological effects

<b>Inhaled</b>	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.
<b>Ingestion</b>	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Lithium, in large doses, can cause dizziness and weakness. If a low salt diet is in place, kidney damage can result.
<b>Skin Contact</b>	Open cuts, abraded or irritated skin should not be exposed to this material. Solution of material in moisture on the skin, or perspiration, may increase irritant effects. Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. The material may cause severe inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.

**Eye** This material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Moderate inflammation may be expected with redness; conjunctivitis may occur with prolonged exposure.

**Chronic** There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility. Based on experience with animal studies, exposure to the material may result in toxic effects to the development of the foetus, at levels which do not cause significant toxic effects to the mother. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Lithium compounds can affect the nervous system and muscle. This can cause tremor, inco-ordination, spastic jerks and very brisk reflexes. Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis, caused by particles less than 0.5 micron penetrating and remaining in the lung.

lithium chloride	TOXICITY	IRRITATION
	dermal (rat) LD50: 1488 mg/kg[2]	Eye (rabbit): 100 mg/24h
	Oral (rat) LD50: 526 mg/kg[2]	Skin (rabbit): 500 mg/24h

**Legend:** 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2\*. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

**LITHIUM HYDROXIDE** Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration. Exposure to the material for prolonged periods may cause physical defects in the developing embryo (teratogenesis). Neoplastic by RTECS criteria. Ptosis, altered sleep times, tremor, muscle weakness, antipsychotic behaviour, nausea, vomiting, androgenicity, changes in spermatogenesis, Hodgkins lymphoma, abortion, foetal death, specific development abnormalities recorded.

<b>Acute Toxicity</b>	✓	<b>Carcinogenicity</b>	✓
<b>Skin Irritation/Corrosion</b>	✗	<b>Reproductivity</b>	✓
<b>Serious Eye Damage/Irritation</b>	✓	<b>STOT - Single Exposure</b>	✓
<b>Respiratory or Skin sensitisation</b>	✗	<b>STOT - Repeated Exposure</b>	✗
<b>Mutagenicity</b>	✗	<b>Aspiration Hazard</b>	✗

**Legend:** ✗ -Data either not available or does not fill the criteria for classification  
 ✓ -Data available to make classification

**SECTION 12 Ecological information**

**Toxicity**

lithium hydroxide	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	17mg/L	4
	EC50	48	Crustacea	249mg/L	2
	EC50	72	Algae or other aquatic plants	112mg/L	2
	NOEC	624	Fish	0.2mg/L	4

**Legend:** Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data



Harmful to aquatic organisms.

For Chloride: Although inorganic chloride ions are not normally considered toxic they can exist in effluents at acutely toxic levels. Incidental exposure to inorganic chloride may occur in occupational settings where chemicals management policies are improperly applied. The toxicity of chloride salts depends on the counterion (cation) present; that of chloride itself is unknown. Chloride toxicity has not been observed in humans except in the special case of impaired sodium chloride metabolism, e.g. in congestive heart failure.

For lithium (Anion):

Environmental Fate: Lithium hypochlorite is an algaecide, disinfectant, fungicide and food contact surface sanitizer. Its primary use is as a pesticide to control algae, bacteria and mildew in swimming pool water systems, hot tubs and spas. Lithium is an element that occurs naturally at low levels in food and drinking water. Compounds of lithium that would most likely enter freshwater environments are from mining, refining, and fabrication.

DO NOT discharge into sewer or waterways.

Fish toxicity - LC50 (96 hr): gt; 105 mg/L. striped bass Environmental Summary Toxicity - Harmful to aquatic life.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
lithium chloride	LOW	LOW

#### Bioaccumulative potential

Ingredient	Bioaccumulation
lithium chloride	LOW (LogKOW = -0.4608)

#### Mobility in soil

Ingredient	Mobility
lithium chloride	LOW (KOC = 14.3)

### SECTION 13 Disposal considerations

#### Waste treatment methods

Product / Packaging disposal

- Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- Where possible retain label warnings and SDS and observe all notices pertaining to the product. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction
- Reuse
- Recycling
- Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

- DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.

For small quantities:

- Neutralise an aqueous solution of the material.
- Filter solids for disposal to approved land fill.
- Flush solution to sewer (subject to local regulation)
- Heat and fumes evolved during reaction may be controlled by rate of addition.
- Recycle wherever possible.
- Consult State Land Waste Management Authority for disposal.
- Bury residue in an authorised landfill.
- Recycle containers if possible, or dispose of in an authorised landfill.

**SECTION 14 Transport information**

**Labels Required**

Marine Pollutant NO

**Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**  
**Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**  
**Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**  
**Transport in bulk according to Annex II of MARPOL and the IBC code**

**SECTION 15 Regulatory information**

**LITHIUM CHLORIDE IS FOUND ON THE FOLLOWING REGULATORY LISTS**

US DOE Temporary Emergency Exposure Limits (TEELs)  
 US TSCA Chemical Substance Inventory - Interim List of Active Substances  
 US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

**Federal Regulations**

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Section 311/312 hazard categories**

Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	Yes
Acute toxicity (any route of exposure)	Yes
Reproductive toxicity	Yes
Skin Corrosion or Irritation	No
Respiratory or Skin Sensitization	No
Serious eye damage or eye irritation	Yes
Specific target organ toxicity (single or repeated exposure)	No
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	No

**US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)**

None Reported

**State Regulations**

**US. California Proposition 65** None Reported

**National Inventory Status**

National Inventory	Status
Australia - AICS	Yes
Canada - DSL	Yes
Canada - NDSL	No (lithium chloride)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes

*Legend:* Yes = All CAS declared ingredients are on the inventory  
 No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing (see specific ingredients in brackets)

**SECTION 16 Other information**

<b>Revision Date</b>	27/06/2017
<b>Initial Date</b>	Not Available

SDS Version Summary	Version	Date of Update	Sections Updated
	3.1.1.1	25/11/2009	Synonyms
	4.1.1.1	27/06/2017	Classification

**Other information** Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.  
 The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

**Definitions and abbreviations**

- PC-TWA: Permissible Concentration-Time Weighted Average
- PC-STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL : No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- LOD: Limit Of Detection

OTV:	Odour Threshold Value
BCF:	BioConcentration Factors
BEI:	Biological Exposure Index
AIIC:	Australian Inventory of Industrial Chemicals
DSL:	Domestic Substances List
NDSL:	Non-Domestic Substances List
IECSC:	Inventory of Existing Chemical Substance in China
EINECS:	European INventory of Existing Commercial chemical Substances
ELINCS:	European List of Notified Chemical Substances
NLP:	No-Longer Polymers
ENCS:	Existing and New Chemical Substances Inventory
KECI:	Korea Existing Chemicals Inventory
NZIoC:	New Zealand Inventory of Chemicals
PICCS:	Philippine Inventory of Chemicals and Chemical Substances
TSCA:	Toxic Substances Control Act
TCSI:	Taiwan Chemical Substance Inventory
INSQ:	Inventario Nacional de Sustancias Químicas
NCI:	National Chemical Inventory
FBEPH:	Russian Register of Potentially Hazardous Chemical and Biological Substances

---

**This document is copyright.**

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.

TEL (+61 3) 9572 4700