

# SAFETY DATA SHEET

Version: v1  
Revision Date: 2023-11-15  
Print Date: 2023-11-25

## SECTION 1:Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name : Lithium chloride monohydrate  
Product Number : L118859  
Brand : aladdin  
CAS-No. : 85144-11-2

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : It is only for scientific research purposes, not for medicine, family standby medicine or other purposes.

### 1.3 Details of the supplier of the safety data sheet

Company : Shanghai Aladdin Biochemical Tech Co.,Ltd  
Address : 36 Xinjinqiao Road, Shanghai  
Telephone : 400-620-6333  
Fax : no data available

### 1.4 Company

### 1.5 Emergency telephone number

Emergency Phone : 0532-83889090  
CHEMTREC®,Inside the USA :  
CHEMTREC®,Inside the USA :

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

### 2.2 GHS Label elements, including precautionary statements

Pictogram : no data available  
Signal word : no data available  
Hazard statement(s) :  
Precautionary statement(s) :

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Phone: +1 (833) 552-7181 Email: QualityAssurance@aladdinsci.com Website: <https://www.aladdinsci.com/>

Synonyms	: Lithium chloride hydrate
Formula	: <chem>ClLi</chem>
Molecular weight	: 60.41
CAS No.	: 85144-11-2
EC-NO.	: no data available

Component	Classification	Concentration
Lithium chloride monohydrate	no data available	99.95% metals basis

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

主要症状和影响，急性和迟发效应咳嗽,呼吸短促,头痛,恶心,呕吐,由经碳酸锂治疗的母亲母乳喂养的婴儿会出现苍白病和t波倒置,高浓度的锂离子会导致头昏和虚脱,如果钠摄入有限能引起肾损伤。脱水、失重、皮肤效应和甲状腺功能紊乱都有报道。可能出现中枢神经系统效应包括失语、视力模糊、感觉丧失、抽搐等。反复接触锂离子会发生腹泻、呕吐和神经肌肉效应例如震颤、抽筋和反射亢进。,据我们所知,此化学,物理和毒性性质尚未经完整的研究。

### 4.3 Indication of any immediate medical attention and special treatment needed

no data available

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Unsuitable extinguishing media

no data available

### 5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions.- Hydrogen chloride gas, Lithium oxides

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 5.4 Further information

no data available

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### 6.2 Environmental precautions

Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up

no data available

### 6.4 Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. strongly hygroscopic Keep in a dry place.

### 7.3 Specific end use(s)

no data available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved

under <br/>appropriate government standards such as NIOSH (US) or EN 166(EU).<br/>

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching <br/>glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in <br/>accordance with applicable laws and good laboratory practices. Wash and dry hands.

<br/>Immersion protection <br/>Material: Nitrile rubber <br/>Minimum layer thickness: 0.11 mm <br/>Break through time: > 480 min <br/>Material tested: Dermatril? (Aldrich Z677272, Size M) <br/>Splash protection <br/>Material: Nitrile rubber <br/>Minimum layer thickness: 0.11 mm <br/>Break through time: > 30 min <br/>Material tested: Dermatril? (Aldrich Z677272, Size M) <br/>data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, e-mail sales@kcl.de, test method: <br/>EN374 <br/>If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the <br/>supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial <br/>Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as <br/>offering an approval for any specific use scenario.<br/>

#### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the <br/>concentration and amount of the dangerous substance at the specific workplace.<br/>

#### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection <br/>use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components <br/>tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).<br/>

#### Control of environmental exposure

no data available

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

a) Appearance	no data available
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	no data available
g) Flash point	no data available
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	no data available
n) Water solubility	no data available

- o) Partition coefficient: n-octanol/water no data available
- p) Auto-ignition temperature no data available
- q) Decomposition temperature no data available
- r) Viscosity no data available
- s) Explosive properties N no data available
- t) Oxidizing properties N no data available

## 9.2 Other safety information

no data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

no data available

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

Strong oxidizing agents

### 10.5 Incompatible materials

Hazardous decomposition products formed under fire conditions.- Hydrogen chloride gas, Lithium oxides

<br/>Other decomposition products - no data available <br/>

### 10.6 Hazardous decomposition products

Oral LD50 <br/>no data available <br/>Inhalation LC50 <br/>Dermal LD50 <br/>no data available <br/>Other information on acute toxicity <br/>no data available <br/>

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

<br/>Aldrich - 298328 Page 5 of 7 <br/>no data available <br/>

Serious eye damage/eye irritation

no data available <br/>

Respiratory or skin sensitisation

no data available

**Germ cell mutagenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as   
probable, possible or confirmed human carcinogen by IARC.  
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a   
carcinogen or potential carcinogen by ACGIH.  
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a   
known or anticipated carcinogen by NTP.  
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a   
carcinogen or potential carcinogen by OSHA.

**Carcinogenicity**

no data available

**Reproductive toxicity**

Inhalation - May cause respiratory irritation.

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

no data available

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**SECTION 12: Ecological information****12.1 Toxicity**

no data available

**12.2 Persistence and degradability**

no data available

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

no data available

**12.6 Other adverse effects**

no data available

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**SECTION 13:****13.1 Disposal considerations**

ALADDIN SCIENTIFIC CORPORATION  
14078 Meridian Parkway, Riverside, CA. 92518

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

no data available

**SECTION 14: Transport information****DOT (US)**

UN number: no data available	Packing group: -	Class: -
Proper shipping name: Not dangerous goods	Reportable Quantity(RQ): no data available	Poison Inhalation Hazard: No

Environmental Hazards: No

**IMDG**

UN number: no data available	Packing group: -	EMS-No: No
Proper shipping name: Not dangerous goods		

**IATA**

UN number: no data available	Packing group: -	Class: -
Proper shipping name: Not dangerous goods		

**SECTION 15: Regulatory information**

no data available

**SECTION 16: Other information****Prepared By****Regulatory Affairs**

Email: QualityAssurance@aladdinsci.com

**Creation Date**

10-Sep-2020

**Revision Date**

15-Nov-2023

**Print Date**

25-Nov-2023

**Revision Summary**

SDS sections updated v1

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