

SAFETY DATA SHEET

Lithium Chloride 99+% Extra Pure

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name: Product no.: Other means of identification: Lithium Chloride 99+% Extra Pure LICL893 EC No.: 231-212-3 CAS No.: 7447-41-8

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

Relevant identified uses of the substance or mixture:Industrial purposes, Laboratory useUses advised against :None known.

1.3. Details of the supplier of the safety data sheet

Company and address:

Laboratoriumdiscounter Zandvoortstraat 75 1976BN Ijmuiden Netherlands Tel: +31 255 700 210 www.laboratoriumdiscounter.nl/en/ info@laboratoriumdiscounter.nl 10/03/2023 1.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture Acute Tox. 4; H302, Harmful if swallowed. Skin Irrit. 2; H315, Causes skin irritation. Eye Irrit. 2; H319, Causes serious eye irritation.

2.2. Label elements

E-mail: Revision:

SDS Version:

Hazard pictogram(s):

Signal word: Hazard statement(s):



Warning Harmful if swallowed. (H302) Causes skin irritation. (H315) Causes serious eye irritation. (H319)



out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU)

Compiled in accordance with REACH Regulation (EC) No 1907/2006, as retained and amended in UK law

Safety statement(s):	
General:	If medical advice is needed, have product container or label at hand. (P101) Keep out of reach of children. (P102)
Prevention:	Wash hands thoroughly after handling. (P264) Do not eat, drink or smoke when using this product. (P270) Wear eye protection/protective gloves/protective clothing. (P280)
Response:	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. (P301+P312) Rinse mouth. (P330)
Storage:	-
Disposal:	Dispose of contents/container in accordance with local regulation. (P501)
Hazardous substances:	Lithium chloride
Additional labelling:	Not applicable.
Other hazards	
Additional warnings:	This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria se

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

2.3.

Product/substance	Identifiers	% w/w	Classification	Note
	CAS No.: 7447-41-8 EC No.: 231-212-3 UK-REACH: Index No.:		Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319	

2018/605.

3.2. Mixtures

Not applicable. This product is a substance.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

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SECTION 4: FIRST AID MEASURES

4.1.	Description of first aid measures			
	General information:	In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.		
	Inhalation:	Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.		
	Skin contact:	IF ON SKIN: Wash with plenty of water and soap. Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners. If skin irritation occurs: Get medical advice/attention.		
	Eye contact:	Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.		
	Ingestion:	In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit returning mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.		
	Burns:	Not applicable.		
12	Most important symptoms and offects beth	a acuto and dolawod		

4.2. Most important symptoms and effects, both acute and delayed Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

4.3. Indication of any immediate medical attention and special treatment needed If eye irritation persists: Get medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.



SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist. Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters. If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are: Halogenated compounds

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures Avoid direct contact with spilled substances.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

6.3. Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

Minor spills are collected with a cloth. Collection and disposal of the material shall be done with minimum creation of dust. Sweep and collect. Shall be contained in suitable and tightly closed disposal containers.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste. See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area. See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage material:	Keep only in original packaging.
Storage temperature:	Room temperature 15 to 25°C
Incompatible materials:	Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)



This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. **Control parameters**

No substances are listed in the national list of substances with an occupational exposure limit.

DNEL

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	3.75 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	9.9 mg/kg bw/day
Short term – Systemic effects - General population	Dermal	50 mg/kg bw/day
Short term – Systemic effects - Workers	Dermal	100 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	560 µg/m³
Long term – Systemic effects - Workers	Inhalation	3.5 mg/m ³
Short term – Systemic effects - General population	Inhalation	30 mg/m ³
Short term – Systemic effects - Workers	Inhalation	30 mg/m ³
Long term – Systemic effects - General population	Oral	380 µg/kgbw/day
Short term – Systemic effects - General population	Oral	1.14 mg/kg bw/day

PNEC

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		10.4 mg/L
Freshwater sediment		270 mg/kg
Intermittent release (freshwater)		10.4 mg/L
Marine water		1.04 mg/L
Marine water sediment		27 mg/kg
Sewage treatment plant		140.2 mg/L
Soil		49.95 mg/kg

8.2. **Exposure controls**

Control is unnecessary if the product is used as intended.

General recommendations:	Smoking, drinking and consumption of food is not allowed in the work area.
Exposure scenarios:	There are no exposure scenarios implemented for this product.
Exposure limits:	Occupational exposure limits have not been defined for the substances in this product.
Appropriate technical measures:	Apply standard precautions during use of the product. Avoid inhalation of gas or dust.
Hygiene measures:	Take off contaminated clothing and wash it before reuse.



Measures to avoid environmental exposure:

No specific requirements.

Individual protection measures, such as personal protective equipment

Generally:

Use only UKCA marked protective equipment.

Respiratory Equipment:

Туре	Class	Colour	Standards	
S/SL	P2	White	EN149	R

Skin protection:

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	R

Hand protection:

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0,2		EN374-2, EN374-3, EN388	

Eye protection:

Туре	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

	Physical state:	Solid
	Colour:	White
	Odour / Odour threshold:	None
	pH:	Testing not relevant or not possible due to the nature of the product.
	Density (g/cm³):	2.07 (20 °C)
	Kinematic viscosity:	Does not apply to solids.
	Particle characteristics:	Testing not relevant or not possible due to the nature of the product.
Phase	e changes	
	Melting point/Freezing point (°C):	608,5
	Softening point/range (waxes and pastes) (°C):	Does not apply to solids.
	Boiling point (°C):	1360
	Vapour pressure:	Testing not relevant or not possible due to the nature of the product.



Relative vapour density: Decomposition temperature (°C):

Data on fire and explosion hazards

Flash point (°C): Flammability (°C):

Auto-ignition temperature (°C):

Lower and upper explosion limit (% v/v):

Solubility

Solubility in water: n-octanol/water coefficient:

Solubility in fat (g/L):

9.2. Other information

Other physical and chemical parameters:

SECTION 10: STABILITY AND REACTIVITY

- **10.1. Reactivity** No data available.
- **10.2.** Chemical stability The product is stable under the conditions, noted in section 7 "Handling and storage".
- **10.3.** Possibility of hazardous reactions None known.
- **10.4.** Conditions to avoid None known.
- **10.5. Incompatible materials** Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.
- **10.6.** Hazardous decomposition products The product is not degraded when used as specified in section 1.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

Acute toxicity

Harmful if swallowed.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Testing not relevant or not possible due to the nature of the product.

Does not apply to solids.

Does not apply to solids.

Testing not relevant or not possible due to the nature of the product.

Testing not relevant or not possible due to the nature of the product.

Does not apply to solids.

569 g /l

Testing not relevant or not possible due to the nature of the product.

Testing not relevant or not possible due to the nature of the product.

No data available.



Respiratory sensitisation

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Endocrine disrupting properties

Not applicable.

Other information

None known.

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** This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.
- **12.6.** Endocrine disrupting properties Not applicable.
- **12.7.** Other adverse effects None known.



SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 4 - Irritant (skin irritation and eye damage)

HP 6 - Acute toxicity

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

EWC code

Not applicable.

Specific labelling

Not applicable.

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

		14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*		Other information:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group

** Environmental hazards

Additional information

Not dangerous goods according to ADR, IATA and IMDG.

- **14.6.** Special precautions for user Not applicable.
- **14.7.** Maritime transport in bulk according to IMO instruments No data available.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application: Demands for specific education: SEVESO - Categories / dangerous substances: Additional information: Sources: No special.

No specific requirements.

Not applicable.

Tactile warning.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.



Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law. Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H302, Harmful if swallowed.

H315, Causes skin irritation.

H319, Causes serious eye irritation.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OFCD - Organization for Economic Comparation and Developme

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure



TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The safety data sheet is validated by

Laboratoriumdiscounter

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification. Country-language: GB-en