1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information

Trade name	:	Lithium chloride
Number	:	000000020683
Recommended use of the chemical and restrictions on use	:	Laboratory chemicals
Manufacturer or supplier's details	:	Honeywell Specialty Chemicals Seelze GmbH Wunstorfer Straße 40 Seelze, 30926 Germany
For further information, please contact:	:	1-800-368-0050 +1-231-726-3171 (Monday-Friday, 9:00am-5:00pm)
In case of emergency call	:	**Medical: 1-800-498-5701 or +1-303-389-1414**
	:	**Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887** **In Japan: +(81)-345209637**

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification of the substance or mixture	:	Acute toxicity, Category 4, Oral Skin irritation, Category 2 Eye irritation, Category 2A

GHS Label elements, including precautionary statements

Symbol(s) :

Signal word	:	Warning
Hazard statements	:	Harmful if swallowed.

Causes skin irritation.
Causes serious eye irritation.

Precautionary statements : **Prevention:**
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.

Response:
IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Rinse mouth.
If skin irritation occurs: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : LiCl

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Lithium chloride Lithium chloride	7447-41-8	<=100.00 %

Note: none

4. FIRST AID MEASURES

General advice : First aider needs to protect himself.
Move out of dangerous area.
Take off all contaminated clothing immediately.

Inhalation	:	If breathed in, move person into fresh air. If symptoms persist, call a physician.
Skin contact	:	After contact with skin, wash immediately with plenty of water. If symptoms persist, call a physician.
Eye contact	:	Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. If eye irritation persists, consult a specialist.
Ingestion	:	When swallowed, allow water to be drunk. Call a physician immediately.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Foam Carbon dioxide (CO2) Dry powder
Specific hazards during firefighting	:	The product itself does not burn. In case of fire hazardous decomposition products may be produced such as: Gaseous hydrogen chloride (HCl).
Special protective equipment for firefighters	:	Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.
Further information	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Evacuate personnel to safe areas. Wear personal protective equipment. Unprotected persons must be kept away. Avoid dust formation. Avoid contact with skin, eyes and clothing.
Environmental precautions	:	Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up	:	Use mechanical handling equipment. Sweep up or vacuum up spillage and collect in suitable container for disposal. Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Handling

Precautions for safe handling	:	Wear personal protective equipment. Use only in well-ventilated areas. Avoid breathing dust. Avoid contact with skin, eyes and clothing.
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.

Storage

Conditions for safe storage, including any incompatibilities	:	Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

Appropriate engineering controls

Use with local exhaust ventilation.

Individual protection measures, such as personal protective equipment

Respiratory protection	:	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	:	Latex gloves
Eye protection	:	Safety goggles
Skin and body protection	:	Dust impervious protective suit
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety

practice.

Protective measures	:	Ensure that eyewash stations and safety showers are close to the workstation location. Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. Avoid breathing dust. Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	solid
Colour	:	colourless
Odour	:	odourless
Odour Threshold	:	Note: No data available
pH	:	6.0 - 8.0 at 50.00 g/l, 20 °C
Melting point/range	:	ca. 605 °C
Boiling point/boiling range	:	1,360 °C at 1,013 hPa
Flash point	:	Note: Not applicable
Evaporation rate	:	Note: No data available
Flammability	:	The product is not flammable.
Lower explosion limit	:	Note: Not applicable
Upper explosion limit	:	Note: Not applicable
Vapour pressure	:	Note: No data available
Vapour density	:	Note: No data available

Density	:	ca. 2.07 g/cm3 at 20 °C
Water solubility	:	Note: soluble
Partition coefficient: n-octanol/water	:	Note: No data available
Ignition temperature	:	Note: Not applicable
Decomposition temperature	:	Note: No decomposition if used as directed.
Viscosity, dynamic	:	Note: No data available
Viscosity, kinematic	:	Note: No data available
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Molecular weight	:	42.39 g/mol

10. STABILITY AND REACTIVITY

Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	None reasonably foreseeable.
Conditions to avoid	:	None known.
Incompatible materials to avoid	:	Strong acids
Hazardous decomposition products	:	Decomposes by reaction with strong acids. Gaseous hydrogen chloride (HCl).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation, Eye contact, Skin contact, Ingestion
Acute oral toxicity	:	LD50: 526 mg/kg Species: Rat
Acute inhalation toxicity	:	LC50: > 5.57 mg/l , dust/mist Exposure time: 4 h

		Species: Rat Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50: > 2,000 mg/kg Species: Rat Method: OECD Test Guideline 402
Skin corrosion/irritation	:	Result: Irritating to skin.
Serious eye damage/eye irritation	:	Species: Rabbit Result: Irritating to eyes. Method: OECD Test Guideline 405
Respiratory or skin sensitisation	:	Species: Guinea pig Result: Not a skin sensitizer. Method: OECD Test Guideline 406
Germ cell mutagenicity	:	Note: Not classified due to data which are conclusive although insufficient for classification.
Germ cell mutagenicity	:	Note: Not classified due to data which are conclusive although insufficient for classification.
Carcinogenicity	:	Note: No data available
Aspiration toxicity	:	Not applicable

12. ECOLOGICAL INFORMATION

Aquatic and ecotoxicity

Toxicity to fish	:	LC50: 158 mg/l Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50: 249 mg/l Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202

Toxicity to algae	:	ErC50: > 400 mg/l Species: Desmodesmus subspicatus (green algae) Method: OECD Test Guideline 201

Persistence and degradability

Biodegradability	:	Note: The methods for determining the biological degradability are not applicable to inorganic substances.

Other adverse effects

Additional ecological information	:	Should not be released into the environment.

13. DISPOSAL CONSIDERATIONS

Disposal methods	:	In accordance with local and national regulations.

14. TRANSPORT INFORMATION

ADR
Not dangerous goods

IATA
Not dangerous goods

IMDG
Not dangerous goods

RID
Not dangerous goods

15. REGULATORY INFORMATION

National regulatory information

Fire Service Law	:	Not relevant
Japan. ISHL Hazardous Substances Labeling Requirements (ISHL Art. 57, Enforcement Order Art. 18, Enforcement Rule Art. 30 & 31, as amended through 6 April 2018)	:	Listed Lithium chloride 7447-41-8
Japan. SDS and Risk Assessment Requirements (ISHL Art. 57-2 and 57-3, Enforcement Order Art. 18-2, Enforcement Rule Art. 34-2 and 34-2-2), as amended	:	Listed Lithium chloride 7447-41-8
Poisonous and Deleterious Substances Control Law	:	Not relevant

Other international regulations

Notification status

US. Toxic Substances Control Act	:	On TSCA Inventory
Australia. Inventory of Industrial Chemicals (AIIC), as amended	:	On the inventory, or in compliance with the inventory
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	:	All components of this product are on the Canadian DSL
Japan. Kashin-Hou Law List	:	On the inventory, or in compliance with the inventory
Korea. Existing Chemicals Inventory (KECI)	:	On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)	:	On the inventory, or in compliance with the inventory
China. Inventory of Existing Chemical Substances (IECSC)	:	On the inventory, or in compliance with the inventory
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	:	On the inventory, or in compliance with the inventory
Taiwan Chemical Substance Inventory (TCSI)	:	On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

		HMIS III	NFPA
Health hazard	:	2	2
Flammability	:	0	0
Physical Hazard	:	0	
Instability	:		0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

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