Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: May 27, 2020

 Product identifier Trade name: Lithium Chloride, Lab Grade Product code: LC1080 CAS Number: TA47-41-3 Recommended use and restriction on use Recommended use: Laboratory chemicals Restrictions on use: No relevant information available. Details of the supplier of the Safety Data Sheet Manufacturer/Rupplier: AquaPhoenix Scientific, Inc. 800 Gitts Run Road Hanover, PA 17331 USA Tet-1 (17)7852-1291 Tol-Free: (866)632-1291 Charm Tel Inc. (800)255-3924 (North America) +1 (313)248-0585 (International) 	1 Identification
 Product code: LC1080 CAS Number: 7447-41-8 Recommended use and restriction on use Recommended use: No relevant information available. Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 Info@aquaphoenixsci.com Distributor: AquaPhoenix Scientific 860 Gitts Run Road, Hanover, PA 17331 (717) 632-1291 Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International) Z Hazard(s) identification Classification of the substance or mixture Acute Tox. 4 H302 Harmful if swallowed. Skin Irit. 2 H315 Causes skin Iritlation. Eye Irit. 2 H319 Causes serious eye iritlation. StoT SE 2 H371 May cause damage to the central nervous system. Route of exposure: Oral. STOT SE 2 H371 May cause damage to the central nervous system and the kidneys through prolonged or repeated exposure: Oral. Label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard Jietorgrams: Signal word: Warning Hazard statements: H302 Harmful Fixed Market Acute Market Statements: H302 Harmful Fixed Market Statements: H302 Harmful Fixed Market Statements Signal word: Warning Hazard statements: H302 Harmful Fixed Market Statements H327 Harmful Fixed Market Statements: H302 Harmful Fixed Market Statements H327 Harmful Fixed Market Statements: H302 Harmful Fixed Market Statements: H302 Harmful Fixed H302 H303 	Product identifier
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according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: May 27, 2020

Trade name: Lithium Chloride, Lab Grade (Cont'd. of page 1) H315 Causes skin irritation. H319 Causes serious eye irritation. H371 May cause damage to the central nervous system. Route of exposure: Oral. H373 May cause damage to the central nervous system and the kidneys through prolonged or repeated exposure. Route of exposure: Oral. · Precautionary statements: P260 Do not breathe dust. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves and eye protection. If swallowed: Call a poison center/doctor if you feel unwell. P301+P312 P302+P352 If on skin: Wash with plenty of water. Specific treatment (see on this label). P321 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P311 IF exposed or concerned: Call a poison center/doctor. Get medical advice/attention if you feel unwell. P314 P330 Rinse mouth. P362+P364 Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. P332+P313 P337+P313 If eye irritation persists: Get medical advice/attention. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. • Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

[•] Chemical characterization: Substances

· CAS No. Description

7447-41-8 Lithium chloride

- · Components: None in reportable quantities.
- Additional information: For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

[·] Description of first aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
- Brush off loose particles from skin.

Wash with soap and water.

- If skin irritation continues, consult a doctor. After eye contact:
- Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

(Cont'd. on page 3)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: May 27, 2020

Trade name: Lithium Chloride, Lab Grade (Cont'd. of page 2) • Most important symptoms and effects, both acute and delayed: (Cont'd. of page 2) Irritant to skin and mucous membranes. Causes serious eye irritation. Gastric or intestinal disorders when ingested. Nausea in case of ingestion. • Danger: Harmful if swallowed. May cause neurotoxic effects. • Indication of any immediate medical attention and special treatment needed: If medical advice is needed, have product container or label at hand. Medical supervision for at least 48 hours.

5 Fire-fighting measures

[•] Extinguishing media

• Suitable extinguishing agents: Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: No relevant information available.
- Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

[•] Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

[•] Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Wear protective equipment. Keep unprotected persons away.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

• Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Methods and material for containment and cleaning up

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

[·] Handling

• Precautions for safe handling: Use only in well ventilated areas.

· Information about protection against explosions and fires: No special measures required.

[•] Conditions for safe storage, including any incompatibilities

(Cont'd. on page 4)

Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: May 27, 2020

 Requirements to be met by storerooms and receptacles: Storage area should be dry and well-ventilated. Keep cool. Information about storage in one common storage facility: Store away from foodstuffs. Do not store together with acids. Further information about storage conditions: Keep containers tightly sealed. Specific end use(s) No relevant information available. 	Storage area should be dry a Keep cool. Information about storage i	
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No relevant intermetion evaleble	· Body protection: Protection	

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Revision: May 27, 2020

Trade name: Lithium Chloride, Lab Grade

(Cont'd. of page 4)

9 Physical and chemical prope	erties
Information on basic physical a	and chemical properties
Appearance:	
Form:	Solid
Color:	White
· Odor:	Odorless
· Odor threshold:	Not determined.
· pH-value:	Not determined.
	Not applicable.
 Melting point/Melting range: 	605 °C (1121 °F)
 Boiling point/Boiling range: 	>110 °C (>230 °F)
· Flash point:	The product is not flammable.
-	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Auto-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
 Oxidizing properties: 	Non-oxidizing.
· Vapor pressure:	Not determined.
· Density at 20 °C (68 °F):	2.07 g/cm³ (17.27 lbs/gal)
· Relative density:	Not determined.
· Vapor density:	Not determined.
Evaporation rate:	Not determined.
· Solubility in / Miscibility with	
Water:	Soluble.
· Partition coefficient (n-octanol/wa	ter): Not determined.
·Viscosity	
Dynamic:	Not determined.
Kinematic:	Not determined.
Other information	No relevant information available.

10 Stability and reactivity

• **Reactivity:** No relevant information available.

• Chemical stability: Stable under normal temperatures and pressures.

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

[•] Possibility of hazardous reactions

(Cont'd. on page 6)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: May 27, 2020

(Cont'd. of page 5)

Reacts with strong acids. Toxic fumes may be released if heated above the decomposition point.

Conditions to avoid Excessive heat.

· Incompatible materials Acids.

Hazardous decomposition products

Under fire conditions only: Chlorine Metal oxide smoke.

11 Toxicological information

 Information on toxicological effects Acute toxicity: Harmful if swallowed.
· LD/LC50 values that are relevant for classification:
Lithium Chloride Reagent Solution
Oral LD50 1200-1400 mg/kg (None specified) (Acute Toxicity Estimate)
7447-41-8 Lithium chloride
Oral LD50 526 mg/kg (rat)
Primary irritant effect:
On the skin: Irritant to skin and mucous membranes.
On the eye: Causes serious eye irritation.
· Sensitization: Based on available data, the classification criteria are not met.
· IARC (International Agency for Research on Cancer):
Substance is not listed.
· NTP (National Toxicology Program):
Substance is not listed.
· OSHA-Ca (Occupational Safety & Health Administration):
Substance is not listed.
· Probable route(s) of exposure:
Ingestion.
Inhalation.
Eye contact.

Skin contact.

• Acute effects (acute toxicity, irritation and corrosivity):

Irritating to eyes and skin.

Harmful if swallowed.

· Repeated dose toxicity: No relevant information available.

• 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: May cause damage to the central nervous system. Route of exposure: Oral.

· STOT-repeated exposure:

May cause damage to the central nervous system and the kidneys through prolonged or repeated exposure. Route of exposure: Oral.

• Aspiration hazard: Based on available data, the classification criteria are not met.

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: May 27, 2020

Trade name: Lithium Chloride, Lab Grade

(Cont'd. of page 6)

12 Ecological information

[·] Toxicity

· Aquatic toxicity No relevant information available.

· Persistence and degradability No relevant information available.

· Bioaccumulative potential: No relevant information available.

• Mobility in soil: No relevant information available.

Additional ecological information

· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Other adverse effects No relevant information available.

13 Disposal considerations

[•] Waste treatment methods

· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

[·] Uncleaned packagings

• **Recommendation:** Disposal must be made according to official regulations.

UN-Number		
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
UN proper shipping name		
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
Transport hazard class(es)		
DOT, ADR/RID/ADN, IMDG, IATA		
Class	Not regulated.	
Packing group		
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
Environmental hazards	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	(II of	
MARPOL73/78 and the IBC Code	Not applicable.	

15 Regulatory information

(Cont'd. on page 8)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: May 27, 2020

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ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A STOT SE 2: Specific target organ toxicity (single exposure) – Category 2 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 **Sources**

Website, European Chemicals Agency (echa.europa.eu)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: May 27, 2020

Trade name: Lithium Chloride, Lab Grade

(Cont'd. of page 8) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel 1305 North Florida Avenue Tampa, Florida USA 33602-2902

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