



METER

Safety Data Sheet

8.57 mol/kg Lithium Chloride (0.50 *a_w* Verification Standard)

Last Reviewed/Revised: 4.2025

I – PRODUCT AND COMPANY IDENTIFICATION

Company: METER Group, Inc.
2365 NE Hopkins Court
Pullman, WA 99163 USA
509-332-2756

Formula: Lithium Chloride

Concentration: 8.57 mol/kg; 26.65%

Components: LiCl in H₂O

TSCA: Yes
STEL: N/A

TLV/TWA: Not Established
PEL: N/A

Toxicity: 4

II – HAZARD IDENTIFICATION

This product is harmful if swallowed, as classified by Acute Toxicity – Oral.

NFPA Ratings: Health: 4 Flammability: 0 Reactivity: 0



WARNING

III – COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number
Lithium chloride	7447-41-8
Distilled water	7732-18-5

IV – EMERGENCY FIRST AID PROCEDURE

CALL A PHYSICIAN

Inhalation: If uncomfortable, remove person to fresh air and keep in resting position.

Skin Contact: Wash exposed areas with plenty of water.

Eye Contact: Irrigate with plenty of water. Remove contact lenses, if any and easy to do. Continue rinsing.

Ingestion: Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person.

V – FIRE FIGHTING MEASURES

Extinguishing Media: Use appropriate extinguishing media measures to circumstances and environment.

Special Fire Fighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face-piece operated in positive mode.

Auto Ignition Temperature: N/A

Lower Explosion Level: N/A

NFPA Rating: N/A

Toxic Gases Produced: Yes, HCl gas, LiOx gas **Unusual Fires and Explosion Hazards:** N/A

VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment.

Environmental Precautions: Contain spill. Prevent contamination of soil, drains, and surface water.

In Case of Spillage or Discharge: Soak up with inert absorbent material. Keep in suitable closed containers for disposal.

Disposal of Spillage and Waste: Follow federal, state, and local regulations for waste.

EPA Hazardous Waste #: N/A.



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VII – HANDLING AND STORAGE

Handling: Observe good industrial hygiene practices. Use in well-ventilated areas.

Storage: Store in closed original container. Keep container tightly closed. Store in cool and dry place.

VIII – EXPOSURE CONTROL/PERSONAL PROTECTION

Ventilation: Local exhaust. Use in well-ventilated areas.

Respiratory Protection: Respiratory protection not required. For nuisance exposures, use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Personal Protection: If there is a risk of splashing, use goggles with side shields. Use proper protective gloves and avoid contact with skin and eyes.

Other: Lab coat/apron; vent hood.

IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless liquid
Odor:	Odorless
pH:	6.0
Molecular Weight:	42.39
Boiling Point:	Not specified
Vapor Pressure:	Not specified
Vapor Density:	Not specified
Freezing Point:	Not specified
Specific Gravity (H₂O=1):	Not specified
Solubility in Water:	Complete
Flash Point:	Not specified

X – STABILITY AND REACTIVITY

Stable: Stable under recommended storage and handling conditions.

Conditions to Avoid: None.

Materials to Avoid: Strong oxidizing agents, strong acids, and bromine trifluoride.

Hazardous Decomposition Products: Thermal decomposition can lead to release of irritating fumes and toxic gases.

Hydrogen chloride, oxides of lithium.

Possibility of Hazardous Reactions: Can react quickly with oxidizers.

Polymerization: Hazardous polymerization does not occur.

Corrosivity: Corrosive to some metals.

XI – TOXICOLOGICAL INFORMATION

Inhalation: May cause respiratory tract irritation. Ensure supply of fresh air.

Skin Contact: May cause skin irritation.

Eye Contact: Splashes in the eyes may cause irritation, redness, and pain. Rinse immediately and thoroughly with plenty of water.

Ingestion: May cause drowsiness or dizziness. Ingestion may cause irritation and burns of the upper digestive tract, as well as nausea, vomiting, headache, and coughing.

Health Warnings: Effects may be delayed. Oral (rat) LD50: 526 mg/kg, Dermal (rat) LD50: 1488 mg/kg.

Carcinogenicity: NTP: No IARC: No ZLIST: No OSHA Reg: No

XII – ECOLOGICAL INFORMATION (NONMANDATORY)

Ecological Information: No specific data or information available regarding environmental impact. Regarded as having low toxicity to aquatic organisms.

Mobility: Soluble in water. Predicted to have high mobility in soil.



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XIII – DISPOSAL CONSIDERATIONS (NONMANDATORY)

Disposal Methods: Disposal should be in accordance with the principles of Duty of Care observing local and national regulations.

Relevant Information: Keep out of drains, sewers, ditches, and waterways.

Contaminated Packaging: Empty containers must be triple rinsed prior to disposal.

XIV – TRANSPORT INFORMATION (NONMANDATORY)

General: Goods are not regulated, or not dangerous, or are not hazardous, or not restricted for transportation by IATA.

XV – REGULATORY INFORMATION (NONMANDATORY)

FEDERAL REGULATIONS

TSCA

CAS# 7447-41-8 and 7732-18-5 are listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

None.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act

This material does not contain any hazardous air pollutants. This material does not contain any Class I Ozone-Depleting Substances. This material does not contain any Class II Ozone-Depleting Substances.

Clean Water Act

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA

OSHA does not consider any of the chemicals in this product highly hazardous.

STATE REGULATIONS

CAS# 7447-41-8 and 7732-18-5 are not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

INTERNATIONAL REGULATIONS

European Labeling in Accordance with EC Directives

Hazard Symbols: GHS Health Pictogram  **WARNING**

Risk Phrases: H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Safety Phrases: P261 Avoid inhalation of vapor. P305 + P351 + P338 IN CONTACT WITH THE EYES: Rinse gently with water for a few minutes. Remove existing contact lenses if possible. Continue rinsing.

WGK (Water Danger/Protection)

WGK 1. CAS# 7447-41-8 and 7732-18-5

Canada

CAS# 7447-41-8 and 7732-18-5 are listed on Canada's DSL List.

CAS# 7447-41-8 and 7732-18-5 are not listed on Canada's Ingredient Disclosure List



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XVI – OTHER INFORMATION

Information Sources: Product classified according to CHIP3 regulations. (The Chemicals Hazard Information and Packaging for Supply Regulations 2002).

NOTICE

The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this data sheet is to the best of METER Group's knowledge correct at the time of publication. Customers should always satisfy for themselves that their product is entirely suitable for their purpose under their conditions of use and in compliance with current regulations. For any further information, please contact the supplier.