

LITHIUM CHLORIDE SOLUTION

CAS No. 7447-41-8

QS-PDS-1057 Revision: 00

Application Deicing solutions, low-freezing solutions for fire extinguishers, catalyst, and dehumidifying systems, photosensitive developer compositions

Appearance Clear colorless solution

Product Specifications

Guaranteed*

LiCl, wt%	40.0 – 42.0
Alkalinity (as LiOH), N	0.082 – 0.093

Impurities on LiCl basis

NaCl, wt%	0.4	max
CaCl ₂ , wt%	0.05	max

* Special formulations can be prepared to meet a customer's specific needs.

Other Data

Range

Density at 25°C	1.235 – 1.265	g/ml
	10.3 – 10.55	lb/gal
Contained LiCl	0.47 – 0.53	g/ml
	3.91 – 4.43	lb/gal

Physical Properties (40% LiCl)

Density @ 25°C	1.250	g/ml
Crystallization temperature	-3°C	(LiCl·2H ₂ O)
Boiling Point	133°C	
Heat capacity @ 18°C	2.69	joules/g°C

Vapor Pressure

Temperature (°C)

Vapor Pressure mm Hg

20	3.3
40	13
60	40
80	98
100	210

Air Treatment Construction Energy Fine Chemicals Glass & Ceramics Greases & Lubricants Polymers Pool Water Treatment

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Toxicity/Safety Data Water-white liquid. This product is moderately irritating to the skin, eyes, nose and throat. Ingestion may cause drowsiness, weakness, tremors, anorexia, nausea, blurred vision, and muscle spasm.

Additional information on toxicity and safety is contained in the Material Safety Data Sheet (MSDS) available for this product.

Handling/ Storage/ Disposal Avoid contact with eyes, skin or clothing. Avoid breathing mist. Use with adequate ventilation. Wear safety glasses or goggles and rubber gloves. Wash thoroughly after handling. Keep away from strong acids. Keep container closed.

Dispose of waste according to local and Federal laws and regulations.

Shipping Containers 565 pounds (256 kg) solution in a 55 gallon (208 L) plastic container. European shipments are 140 kg solution in a 125 liter polyethylene lined fiber drum.

Shipping Limitations Shipments of lithium chloride solution require no hazardous shipping labels. Shipments by post, parcel, air, water, rail, or truck are acceptable within each carrier's weight limits and packaging requirements.

For shipments within Europe labeling for supply requirements are:

Xn	Harmful
R&S phrases	see Material Safety Data Sheet

Responsible Care initiative dictates that all shipments of lithium chemicals must be transported in an approved vehicle in a responsible manner (i.e., no flat bed trucks).