

QS-PDS-1055 Revision: 02

Application Molten salt chemistry and metallurgy, brazing fluxes, catalyst for organic oxidation reactions, electrolyte in dry cells used in low temperatures, and stabilizer in textile fiber spinning solutions. Solubilizer for polyamides and cellulose when used with amide solvents, chlorinating agent for steroid agents. Desiccant for drying applications, tracer in wastewater.

Appearance Free-flowing white crystals*

Product Specifications
Guaranteed

LiCl, wt%	98.5	min
H ₂ O**	0.6	max
Alkalinity (as Li ₂ CO ₃), wt%	0.03	max
NaCl, wt%	0.8	max
CaCl ₂ , wt%	0.080	max
Fe ₂ O ₃ , wt%	0.005	max
SO ₄ , wt%	0.01	max
Acid Insolubles, wt%	0.01	max

** Value (as weight percent loss) determined by drying at 350°C for 45 minutes.

Other Data

Bulk density	Loose 1.1 g/cm ³
	Tap 1.2 g/cm ³

Physical Properties

Molecular weight	42.40
Density @ 25°C	2.068 g/cm ³
Melting Point	608°C
Boiling Point	1382°C
Specific heat @ 25°C	0.288 cal/g/°C
Standard heat of formation	-97.70 kcal/mole
Heat of solution @ 18°C	-8.49 kcal/mole
Heat of fusion	4.7 kcal/mole
Water solubility @ 25°C	45.4 wt %

Solubility

Moderate solubility in organic solvents

* Occasional dark particles may be visible and scattered in the product. The particles have no detectable effect on product purity and will not be cause for rejection.

Toxicity/Safety Data Harmful if swallowed. Causes serious eye irritation. Causes serious eye irritation. Causes skin irritation. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously w/ water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

COMPLETE INFORMATION ON TOXICITY AND SAFETY IS CONTAINED IN THE SAFETY DATA SHEET (SDS) AVAILABLE FOR THIS PRODUCT.

Handling/Storage/Disposal Avoid contact with eyes, skin or clothing. 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 300 pounds (136 kg) of product in a 38 gallon (143.9 L) polyethylene-lined fiber drum.

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