

QS-PDS-1002 Revision: 00



Application pH correction, especially in lithium bromide and lithium chloride solution

Appearance Free-flowing white crystals

Product Specifications	Typical	Guaranteed
LiOH, wt%	57.6	56.5 min
CO ₂ , wt%	0.13	0.35 max
Cl, wt%	0.001	0.003 max
SO ₄ , wt%	0.005	0.05 max
CaO, wt%	0.002	0.03 max
Fe ₂ O ₃ , wt%	0.0002	0.003 max
NaOH, wt%	0.004	0.05 max
Acid Insolubles, wt%	0.002	0.005 max

Other Data Bulk density Loose 0.8 g/cm³
Tap 1 g/cm³

Physical Properties

Molecular weight	41.96
Density @ 20°C	1.51 g/cm ³
Standard heat of formation	-188.9 kcal/mole
Standard heat of fusion	-0.867 kcal/mole
Specific heat @ 25°C	0.453 cal/g/°C
Loses water of hydration	100 - 110°C

Water Solubility	Temperature (°C)	Weight Percent LiOH in saturated solution*
	0	10.7
	20	10.9
	100	14.8

* The solid phase in equilibrium with saturated solution is the monohydrate, LiOH·H₂O.

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

MARKETS SERVED	NORTH AMERICA AND HEADQUARTERS FMC Lithium	EUROPE FMC Chemicals	JAPAN FMC Lithium	CHINA FMC Lithium	INDIA FMC India Private Limited	TAIWAN FMC Lithium
	Seven LakePointe Plaza 2801 Yorkmont Road, Suite 300 Charlotte, NC 28208 P: +1.704.868.5300 F: +1.704.868.5370	Commercial Road Bromborough Merseyside CH62 3NL, England P: +44.151.482.7356 F: +44.151.482.7361	9F, Aoyama Building 1-2-3, Kita-Aoyama Minato-ku, Tokyo 107-0061, Japan T: +81.3.3402.3716 F: +81.3.3402.3700	15F Far East International Plaza No. 317 Xianxia Road Shanghai 200051 P. R. China T: +86.21.6235.1919 F: +86.21.6235.1917	17/2 Palace Road High Grounds Bangalore 560052, India T: +91.80.2238.4311 F: +91.80.2238.5255	9F-1, 263 Tun Hwa S. Rd. Sec. 1 Taipei, Taiwan T: +866.2.2705.4400 F: +866.2.2702.7460

Toxicity/Safety Data Corrosive. Odorless, white crystals. Corrosive to eyes (may cause blindness), skin, nose and throat. Continuous inhalation exposure may cause lung damage.

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

Handling/Storage/Disposal Do not get in eyes, on skin or clothing. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Store away from acids and water.

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

Shipping Containers 100 kg of product in 38 gallon (143.9 L) polyethylene-lined fiber drum.

Shipping Limitations Shipments of lithium hydroxide are described as "Lithium Hydroxide, UN 2680." All shipments are Hazard Class 8 and require "Corrosive" labels.

Post	Not acceptable
Parcel	Restricted quantities and requires 5-part UPS "Hazardous material" label
Sea	Class 8 (IMDG)
Road, Air, Rail	Class 8.41 b (RID/ADR)
	Restricted quantities by air.

For shipments within Europe labeling for supply requirements are:

C	Corrosive
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).