

LiOH.H₂O

Lithium Hydroxide, Monohydrate

Chemical Formula LiOH.H₂O

CAS No. 1310-66-3

PRODUCT DESCRIPTION

Lithium Hydroxide Monohydrate is a white fine powder. Alkaline and readily soluble in water. Produced from lithium carbonate or lithium sulfate

APPLICATIONS

Lithium Hydroxide Monohydrate is used as an effective accelerator in alumina cement systems and can be used to mitigate alkali-silica reaction in concrete. It is used in paints, ceramics, producing grease thickeners and coolants for corrosion control.

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, Air Restricted quantities

PACKAGING

- 100 Kg of product in a polyethylene-lined fiber drum. Four (4) fiber drums per pallet. 400 Kg per pallet
- 20 Kg of product in a polyethylene bag. Forty-four (50) bags per pallet. 1000 Kg per pallet.
- 25 Kg of product in a polyethylene bag. Forty (40) bags per pallet. 1000 Kg per pallet.
- 50 lbs of product in a polyethylene bag. Forty-four (40) bags per pallet. 2000 lbs per pallet.
- 450 Kg of product in a supersack, stacked two (2) high, 900 Kg per pallet.
- 1000 Kg of product in a supersack, single stacked. 1000 Kg per pallet.

TOXICITY/ SAFETY DATA HANDLING / STORAGE / DISPOSAL

Information on toxicity, safety, handling, storage and disposal is contained in the Safety Data Sheet (SDS) for this product.

SHELF LIFE AND STORAGE

Product should be stored in a dry place away from direct sunlight and humidity in sealed, original packaging.

PRODUCT SPECIFICATIONS

Parameters	Specifications
Appearance	White Crystals
LiOH, wt. %	56.5. Min
CO ₂ , wt. %	0.35. Max
Cl, wt. %	0.003 Max
SO ₄ , wt. %	0.05 Max
CaO, wt. %	0.03 Max
NaOH, wt. %	0.05 Max
Fe ₂ O ₃ , wt. %	0.003 Max
Acid Insolubles, wt. %	0.005 Max

ORDERS and
TECHNICAL SUPPORT

Lithium Salts of America
is Division of ASG Chemie

p: (352) 358-5826
e: info@lithiumsalts.com

OTHER DATA

Loose Bulk Density	0.9 g/cm ³
Tapped Bulk Density	1.0 g/cm ³

PHYSICAL PROPERTIES

Molecular Weight	41.96
Standard Heat of Formation	-188.9 kca/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
Density @ 20° C	1.51 g/cm ³

WATER SOLUBILITY

% by wt. @ 0° C	10.7
% by wt. @ 20° C	10.9
% by wt. @ 100° C	14.8

LIMITED WARRANTY INFORMATION.

PLEASE READ CAREFULLY.

Lithium Salts of America (a Division of ASG Chemical Holdings, LLC. ASG CHEMIE) believes the information in this document to be accurate as at the date of preparation noted below, but, to the maximum extent permitted by law, Lithium Salts of America accepts no responsibility for any loss or damage caused by any person acting or refraining from action because of this information. The provision of this information should not be construed by anyone as a recommendation to use this product. No one should use any product in violation of any patent or other intellectual proprietary rights or in breach of any statute or regulation. Users should rely on their own knowledge and inquiries and make their own determination as to the applicability of this information in relation to their particular purposes and specific circumstances. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace and in conjunction with other substances or products.

For more information or answers to questions about the use in specific applications, contact your Technical Sales Representative or call Toll Free 1.833.LITHUSA (1-833-548-4872).

Visit our website at www.lithiumsalts.com