



Lithium Hydroxide, Monohydrate Reduced Sodium

CAS No. 1310-66-3

QS-PDS-1010 Revision: 01

Date of Last Revision: November 4, 2022

Formula: LiOH.H₂O

Appearance: White, free-flowing crystalline solid.

Application: Production of cathode active material for lithium-ion batteries.

Product Specifications:	LiOH, wt. %	57.40	min
	CO ₂ , wt. %	0.20	max
	CO ₃ , wt. %	0.55	max
	Cl, wppm	20	max
	Al, wppm	10	max
	Ca, wppm	50	max
	Cr, wppm	5	max
	Cu, wppm	5	max
	Fe, wppm	8	max
	K, wppm	30	max
	Mg, wppm	50	max
	Mn, wppm	10	max
	Na, wppm	30	max
	Ni, wppm	10	max
	Si, wppm	20	max
	SO ₄ , wppm	100	max
	Zn, wppm	5	max
	Heavy Metals, wppm	10	max
	Acid Insolubles, wt. %	0.003	max
	Magnetic Impurities, wppb	50	max
	Chemical Stability	Stable	
	Possibility of Hazardous Reaction	Hazardous Polymerization Will Not Occur	
	Conditions to Avoid	Contact with Acids, Aluminum or Zinc	
	Incompatible Materials	Acids, Aluminum, Zinc	
	Hazardous Decomposition Products	None	

Other Data:	Loose Bulk Density	0.9 g/mL
	Tapped Bulk Density	1.0 g/mL



Physical Properties:	Odor	Odorless
	pH	(1% Solution) @ 25°C: >13
	Specific Gravity	1.5 g/cc
	Molecular Weight	41.96

Water Solubility: % by wt. @ 25°C (77°F): 10

Toxicity/Safety Data *Information on toxicity, safety, handling, storage and disposal*
Handling / Storage / Disposal: *is contained in the Safety Data Sheet (SDS) for this product.*

- Shipping Containers:**
- 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.

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	
Sea	Class 8	(IMDG)
Road	Class 8	(DOT/ADR)