Lithium Hydroxide, Monohydrate High Purity Grade **CAS No. 1310-66-3**

QS-PDS-1010 Revision: 03 **Date of Last Revision: June 12, 2024**

Formula: $LiOH.H_2O$

Appearance: White, free-flowing crystalline solid.

Application: A free-flowing granular solid used in the production of cathode active material for lithium-ion batteries.

Product Specifications:

LiOH, wt. %	57.40	min
CO_2, wt. %	0.35	max
CO_3, wt. %	0.55	max
Cl, wppm	20	max
Ca, wppm	50	max
Fe, wppm	8	max
Na, wppm	30	max
SO_4, wppm	100	max
Acid Insolubles, wt. %	0.003	max
Magnetic Impurities, wppb	50	max

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 Handling / Storage / Disposal: *Information on toxicity, safety, handling, storage and 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)