



Lithium Hydroxide, Monohydrate Micronized, 10  $\mu\text{m}$

CAS No. 1310-66-3

QS-PDS-2062 Revision: 02

Date of Last Revision: February 16, 2023

**Formula:**  $\text{LiOH}\cdot\text{H}_2\text{O}$

**Appearance:** White, fine powder to  $11\pm 2 \mu\text{m}$ .

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

<b>Product Specifications:</b>	LiOH, wt. %	56.5	min
	CO <sub>2</sub> , wt. %	0.5	max
	Ca, ppm	70	max
	Fe, ppm	10	max
	Na, ppm	50	max
	SO <sub>4</sub> , ppm	150	max
	Cl, ppm	20	max
	Magnetic Impurities, ppb	100	max
	D50 (Dry), $\mu\text{m}$	9.0 min	13.0 max

<b>Other Data:</b>	Loose Bulk Density	0.355 g/mL
	Tapped Bulk Density	0.651 g/mL

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



**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:**
- 250 Kg super sack double stacked on a pallet, 10 pallets per 20' container, 20 pallets per 40' container
  - 350 Kg super sack single stack on a pallet, 10 pallets per 20' container, 20 pallets per 40' container

**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)