Livent

Lithium Hydroxide Monohydrate Micronized (5 µm) **CAS No. 1310-65-2**

QS-PDS-2061 Revision: 01 **Date of Last Revision: Sept 9, 2020**

Formula: $LiOH.H_2O$

Appearance: White, fine powder to 5±1.5 µm.

Application: A free-flowing granular solid used in the production of cathode active material for lithium-ion batteries. It is also well suited for use in the production of lithium greases, dyes, resins, coatings, water treatment and many other specialty chemicals.

Product Specifications:

LiOH, wt. %	56.5 – 58.5	
CO_2, wt. %	0.5	max
Ca, ppm	50	max
Cu, ppm	10	max
Fe, ppm	10	max
Mg, ppm	30	max
Na, ppm	50	max
SO_4, ppm	150	max
Si, ppm	50	max
Zn, ppm	10	max
Cl, ppm	20	max
Magnetic Impurities, ppb	100	max
D50 (Dry), µm	3.5 – 6.5	
Reactivity	Reacts with acids	
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	0.293 g/mL
Tapped Bulk Density	0.491 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: 250 kg supersack, shipped 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)