FMC Lithium

LITHIUM CARBONATE, TECHNICAL GRADE

CAS No. 554-13-2

QS-PDS-1051 Revision: 01

Formula Li₂CO₃

Appearance An odorless white, free-flowing powder

Application A free-flowing, odorless white powder with guaranteed 99.3 wt% purity and a relatively fine particle size. Technical Grade product is a higher purity grade for use as a precursor in making critical battery materials, is useful in the manufacture of glass, frits, other ceramics and a variety of specialized applications.

Product Specifications		Guaranteed	
	Li ₂ CO ₃ , wt%	99.3	min
	H ₂ O*, wt%	0.6	max
	Cl, wt%	0.01	max
	SO ₄ , wt%	0.1	max
	Fe ₂ O ₃ , wt%	0.003	max
	CaO, wt%	0.05	max
	Na ₂ O, wt%	0.2	max
	Acid Insolubles, wt%	0.02	max

*Value (as weight percent loss) determined by drying at 500°C for 30 minutes.

Physical Properties	Molecular weight	73.89
	Melting point	720°C
	Water solubility @ 20°C	1.3 wt%

Toxicity/Safety DataWhite granular solid or powder, odorless. Eye irritant; no significant hazard in
industrial/commercial applications.Additional information on toxicity and safety is contained in the Material Safety
Data Sheet (MSDS).

Air Treatment Construction Energy Fine Chemicals Glass & Ceramics Greases & Lubricants Polymers Pool Water Treatment

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Handling/Storage/Disposal	Avoid contact with eyes, skin or clothing. Use with adequate ventilation. Wear safety glasses or goggles and rubber gloves. Wash thoroughly after handling. Keep away from strong acids. Keep container closed.	
	Dispose of waste according to local and Federal laws and regulations.	
Shipping Containers	100 kg in a 38 gal(143.8L) fiber drum 20 kg bag on 880 kg pallet 50 lb bag – 2200 lb pallet 450 kg supersack 900 kg supersack	
Shipping Limitations	Shipments of lithium carbonate are not classed as hazardous for transport. Shipments by post, parcel, air, water, rail, or road are acceptable within each carrier's weight limits and packaging requirements.	
	For shipments within Europe labeling for supply requirements are: Xn Harmful Xi Irritant R&S phrases see Material Safety Data Sheet	
	*Technical grade lithium carbonate is not manufactured nor intended for drug use.	
	Responsible Care initiative dictates that all shipments of lithium chemicals must be transported in DOT-approved vehicle in a responsible manner (ie., no flat bed trucks).	

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