

LITHIUM CARBONATE, TECHNICAL GRADE

CAS No. 554-13-2

QS-PDS-1051 Revision: 01

Formula Li_2CO_3

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_2CO_3 , wt%	99.3	min
H_2O^* , wt%	0.6	max
Cl, wt%	0.01	max
SO_4 , wt%	0.1	max
Fe_2O_3 , wt%	0.003	max
CaO, wt%	0.05	max
Na_2O , 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 Data White 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

MARKETS SERVED

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AND HEADQUARTERS**
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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).