

ALPHA ENVIRONMENTAL**PRODUCT DATA SHEET**
PRODUCT CODE: TECHLCP/02A**LITHIUM CARBONATE (POWDER)**

SYNONYMS: DILITHIUM CARBONATE, DILITHIUM SALT, CARBONIC ACID, CAMCOLIT, LISKONUM

INDUSTRIAL GRADE

CAS NO.	EINEC NO.	H.S. CODE	UN #	DOT CLASS	IMCO #
554-13-2	209-062-5				

PHYSICAL DATA

CHEMICAL FORMULA	Li₂CO₃
APPEARANCE	White, crystalline powder
MOLECULAR WEIGHT	73.89
SPECIFIC GRAVITY (g/cc)	2.11
BULK DENSITY (kg/l)	0.8
MELTING POINT (C)	735
BOILING POINT (C)	1200
FREEZING POINT (C)	
STABILITY	Stable at room temperature
ODOR	None
SOLUBILITY	Slightly soluble in water; Insoluble in alcohol; Soluble in dilute acids
SOLUBILITY IN WATER g/100 mL (at 20 C)	1.34
pH (1% solution)	11.2
LOSS ON IGNITION (%) (at 550 C)	0.75
GRADING	Fine Powder: -200 mesh Tyler (+200 = 10% max)

CHEMICAL SPECIFICATIONS

PURITY (%) dry basis	98.5 min.
MOISTURE (%)	0.15
CHLORIDES (%)	0.015
SULFATES (%)	0.05
POTASSIUM (%)	0.003
Fe ₂ O ₃ (%)	0.005
SODIUM (%)	0.009
MAGNESIUM (%)	0.03
CALCIUM (%)	0.02

PACKING

- 1) 25 kg multi-layer laminated paper-sacks
- 2) 1000 kg in PP woven super-sacks

STORAGE & HANDLING

Store at room temperature, in a cool, dry place, away from heat, humidity and water. Store away from incompatible substances.

Avoid contact with eyes, skin, clothing. AVOID BREATHING DUST. Avoid ingestion. Always use NIOSH approved respirator, PVC hand gloves and safety goggles.

USES

Glass, Glass Ceramics, Ceramic & Porcelain Glazes, Raw-Material for Lithium Compounds, Catalyst for Esterification, Flux in Aluminum Smelting, Luminescent Paints, Quick Setting Cements. Lithium Frits.

Fire works (to impart red color)

The information provided herein is believed to be reliable, however, no guarantees are made or liability assumed.

ALPHA ENVIRONMENTAL
10701 WILSHIRE BLVD., #1506,
Los Angeles, California 90024 (USA)
Tel: +1-714-595-3536 * Fax: +1-949-679-8524
alpha-environmental@usa.net