

## LITHIUM SULFATE ANHYDROUS

CAS No. 10377-48-7

QS-PDS-1039 Revision: 00

**Application** In ceramic compositions as a source of lithia, as a solubilizer in photographic develop solutions, as a tracer in chemical products and as an additive to specialty Portland cements.

**Appearance** White powder

### Product Specifications

### Guaranteed

Li <sub>2</sub> SO <sub>4</sub> , wt%	99.0	min
H <sub>2</sub> O, wt%	1.0	max
Fe <sub>2</sub> O <sub>3</sub> , wt%	0.005	max
Na, wt%	0.02	max
Acid Insolubles, wt%	0.01	max
Alkalinity (as LiOH) , wt%	0.1	max

**Other Data** Bulk density 0.96 g/cm<sup>3</sup> (60 lb/ft<sup>3</sup>)

**Physical Properties**

Molecular weight	109.94
Density @ 20°C	2.22 g/cm <sup>3</sup>
Melting point	859°C
Standard heat of formation	-342.83 kcal/mole
Heat of solution @ 18°C	-6.10 kcal/mole
Water solubility @ 25°C	25.7 wt %

**Toxicity/Safety Data** Odorless, white powder. May cause irritation of eyes.

Additional information on toxicity and safety is contained in the Material Safety Data Sheet (MSDS) available for this product.

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

MARKETS SERVED

**NORTH AMERICA  
AND HEADQUARTERS**  
FMC Lithium  
Seven LakePointe Plaza  
2801 Yorkmont Road, Suite 300  
Charlotte, NC 28208  
P: +1.704.426.5300  
F: +1.704.426.5370

**EUROPE**  
FMC Chemicals  
Commercial Road  
Bromborough  
Merseyside  
CH62 3NL, England  
P: +44.151.482.7356  
F: +44.151.482.7361

**JAPAN**  
FMC Lithium  
9F, Aoyama Building  
1-2-3, Kita-Aoyama  
Minato-ku, Tokyo  
107-0061, Japan  
T: +81.3.3402.3716  
F: +81.3.3402.3700

**CHINA**  
FMC Lithium  
15F Far East International Plaza  
No. 317 Xianxia Road  
Shanghai 200051 P. R. China  
T: +86.21.6235.1919  
F: +86.21.6235.1917

**INDIA**  
FMC India Private Limited  
Embassy Star  
8, Palace Road  
High Grounds  
Bangalore 560052, India  
T: +91.80.2238.4311  
F: +91.80.2238.5255

**TAIWAN**  
FMC Lithium  
9F-1, 263 Tun Hwa S. Rd.  
Sec. 1  
Taipei, Taiwan  
T: +866.2.2705.4400  
F: +866.2.2702.7460

## LITHIUM SULFATE ANHYDROUS

CAS No. 10377-48-7

### 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

110 pounds (50 kg) of product in a 16.5 gallon (62.5 L) polyethylene-lined fiber drum.

### Shipping Limitations

Shipments of lithium sulfate require no hazardous shipping labels. Shipments by post, parcel, air, water, rail, or truck are acceptable within each carrier's weight limits and packaging requirements.

For shipments within Europe labeling for supply requirements are:

Xn	Harmful
R&S phrases	see Material Safety Data Sheet

Responsible Care initiative dictates that all shipments of lithium chemicals must be transported in an approved vehicle in a responsible manner (i.e., no flat bed trucks).