

LITHIUM ACETATE DIHYDRATE

CAS No. 6108-17-4

QS-PDS-1031 Revision: 00

Application Ester interchange catalyst in polyester production, anticorrosion agent in molding polyphenylene sulfide resins, and a catalyst in alkyd resin and acrylic polymer production.

Appearance Small, white crystals

Product Specifications

Guaranteed

LiC ₂ H ₃ O ₂ , wt%	63.0	min
H ₂ O*	37.0	max
Water Insolubles, wt%	0.01	max
Fe, wppm	20	max
Na, wppm	50	max
SO ₄ , wppm	100	max
Cl, wt%	0.003	max
pH (5% solution)	9.5	max

* Value (as weight percent loss) determined by drying at 175°C for 2 hours.

Other Data Bulk density 0.8 g/cc (50 lb/ft³)

Physical Properties

Molecular weight	102.01
Density @ 25°C	1.3 g/cm ³
Melting points	
congruent m.p. of dihydrate	57.8°C
m.p. of anhydrous salt	291°C
Methanol solubility @ 15°C (anhydrous)	23.3 wt%
Heat of solution @ 25°C (anhydrous)	-4.3 kcal/mole

Water solubility

Temperature (°C)	wt % LiC ₂ H ₃ O ₂ in saturated solution	Solid phase at saturation
-2.98	4.83	Ice
0	23.76	LiC ₂ H ₃ O ₂ ·H ₂ O
20.0	29.0	LiC ₂ H ₃ O ₂ ·H ₂ O
50.5	49.55	LiC ₂ H ₃ O ₂ ·H ₂ O
57.0	64.88	LiC ₂ H ₃ O ₂
157.5	71.33	LiC ₂ H ₃ O ₂

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

MARKETS SERVED	NORTH AMERICA AND HEADQUARTERS	EUROPE	JAPAN	CHINA	INDIA	TAIWAN
	FMC Lithium Seven LakePointe Plaza 2801 Yorkmont Road, Suite 300 Charlotte, NC 28208 P: +1.704.426.5300 F: +1.704.426.5370	FMC Chemicals Commercial Road Bromborough Merseyside CH62 3NL, England P: +44.151.482.7356 F: +44.151.482.7361	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	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	FMC India Private Limited Embassy Star 8, Palace Road High Grounds Bangalore 560052, India T: +91.80.2238.4311 F: +91.80.2238.5255	FMC Lithium 9F-1, 263 Tun Hwa S. Rd. Sec. 1 Taipei, Taiwan T: +866.2.2705.4400 F: +866.2.2702.7460

Toxicity/Safety Data Small, white crystals, odorless. May produce acetone under fire conditions. This product is mildly irritating to the skin and may be irritating to the eyes, respiratory tract and mucous membranes.

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

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 220 pounds (100 kg) product in a 38 gallon (143.9 L) polyethylene-lined fiber drum or 2000 pounds (909.1 kg): 40 ea 50 pound (22.7 kg) five ply bags palletized.

Shipping Limitations Shipments of lithium acetate dihydrate 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).