

# LectroLyte<sup>+</sup>800

<b>Chemical Name</b>	Lithium Nitrate, Electrochemical Grade	
<b>Formula</b>	LiNO <sub>3</sub>	
<b>Appearance</b>	White powder	
<b>Application</b>	Electrolyte salt for lithium batteries	
<b>Product Specifications</b>	LiNO <sub>3</sub>	99.0 wt% min
	H <sub>2</sub> O*	1.0 wt% max
	Alkalinity (as Li <sub>2</sub> CO <sub>3</sub> )	500 wppm max
	Cl	100 wppm max
	Fe <sub>2</sub> O <sub>3</sub>	50 wppm max
	SO <sub>4</sub>	500 wppm max

\* Value (as weight loss) determined by drying at 250°C for 4 hours.

<b>Physical Properties</b>	Formula weight	68.95
	True density @ 20°C	2.37 g/cm <sup>3</sup>
	Melting point	251°C

**Toxicity/Safety Data** OXIDIZER. White granular solid. Lithium nitrate is irritating to the eyes, skin, nose, and throat. Exposure to dusts may cause a burning sensation, cough, wheezing and inflammation of exposed tissue.

*COMPLETE INFORMATION ON TOXICITY AND SAFETY IS CONTAINED IN THE FMC MATERIAL SAFETY DATA SHEET (MSDS) AVAILABLE FOR THIS PRODUCT.*

**Handling/Storage/Disposal** Do not get in eyes, on skin or clothing. Avoid breathing dust. Wash thoroughly after handling. Store away from readily oxidizable materials, strong acids and flammable materials. Protect from moisture. Keep container closed.

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

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**Shipping Containers** 110 lb. sealed in a 16.5-gallon fiber drum

**Shipping Limitations** Shipments of lithium nitrate are described as "Lithium Nitrate, UN 2722," PGIII. All shipments are Hazard Class 5.1 and require "Oxidizer" labels.

Post	Not acceptable
Parcel, Air	Restricted quantities
Sea	Class 5.1 (IMDG)
Road, Rail	Class 5.1.22c (RID/ADR)

For shipments within Europe labeling for supply requirements are:

O	Oxidizing
Xn	Harmful
R&S phrases	See Material Safety Data Sheet (MSDS)

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).

**Lectro Battery Products** FMC provides a comprehensive line of products for battery applications including additional Lectro Lyte Salts, Lectro Max Anode Materials, and lithium precursors for producing critical battery materials. FMC possesses extensive capabilities to develop and customize products and packaging to meet specific customer requirements. FMC is ISO 9001:2000 certified.

For more information on these products, please call, or visit our website at [www.fmclithium.com](http://www.fmclithium.com). Let FMC Lithium fulfill your battery material needs.