

# TECHNICAL DATA SHEET

Date of Issue: 2018/02/20

## Lithium Nitrate, pure grade

CAS-No.	7790-69-4
EC-No.	232-218-9
REACH No.	01-2119968667-16
Molecular Formula	LiNO <sub>3</sub>
Product Number	401110

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<b>APPLICATION</b>	- strong oxidizing agent - corrosion inhibitor, e.g. in absorption coolers - additive in fire works
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### SPECIFICATION

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LiNO <sub>3</sub>	min. 99.5 %
H <sub>2</sub> O (200°C)	max. 0.1 %

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### PHYSICAL PROPERTIES

Appearance	Crystalline powder
Color	colorless
Melting point/ range	ca. 255 °C at 1,013 hPa (Information taken from reference works and the literature.)
Flash point	(Not applicable)
Decomposition temperature	from 450 °C
Density	ca. 2.37 g/cm <sup>3</sup> at 20 °C
Bulk density	ca. 1,130 kg/m <sup>3</sup>
Water solubility	1,020 g/L at 20 °C 560 g/L at 30 °C

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Molecular weight	68.95 g/mol
Thermal Stability	onset of decomposition: 450 °C
Additional Physical Properties	Solution enthalpy: + 300 cal (18 °C)

## HANDLING & STORAGE

Handling	Pay attention to the official safety regulations.
Storage	Store under dry conditions. Product is hygroscopic, tends to time consolidation and forms agglomerates under prolonged storage.

## TRANSPORT & PACKAGING

UN number 2722

ADR	Class: 5.1	PG: III	Label: 5.1
RID	Class: 5.1	PG: III	Label: 5.1
IMDG	Class: 5.1	PG: III	Label: 5.1
IATA_C	Class: 5.1	PG: III	Packing instruction (cargo aircraft): 563
IATA_P	Class: 5.1	PG: III	Packing instruction (passenger aircraft): 559

Hazard pictograms



Signal Word	Warning
H&P Phrases	See Safety Data Sheet
Labelling	The labelling is according to EU-GHS classification ((EG) 1272/2008) and may vary in other countries. Please refer to the respective Safety Data Sheet for your country.

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## Packaging

50kg polyethylene bag in fibre drum or  
4 x 25kg polyethylene bags in 100kg fibre drum.

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## OTHER INFORMATION

Further Related Documents      Safety Data Sheet

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