TECHNICAL DATA SHEET

Date of Issue: 2016/12/12

Lithium Amide, milled

CAS-No. 7782-89-0

EC-No. 231-968-4

Molecular Formula LiNH₂

Product Number 401601

APPLICATION Claisen condensation, Aldol condensation.

Alkylation of nitriles, ketones, amines, alkynes.

Synthesis of ethynyl compounds and antihistamines. Transesterification. Catalyst for the anionic polymerization of acrylonitrile and methacrylonitrile.

FURTHER INGREDIENTS

Lithium hydride

CAS-No. 7580-67-8 EC-No. 231-484-3

SPECIFICATION

LiNH2	min. 94 %	typ. 97 %
LiH	max. 6 %	typ. 3 %

METHOD OF ANALYSIS

Determination by acidimetric titration. Detailed description on request.

PHYSICAL PROPERTIES

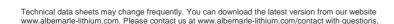
Appearance fine powder

Color white to gray
Melting point/ range 380 - 400 °C

Density 1.18 g/cm3 at 20 °C

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation and its subsidiaries and affiliates. It is the responsibility of the user to comply with all applicable laws and regulations and to provide for a safe workplace. The user should consider any health or safety hazards or information contained herein only as a guide, and should take those precautions which are necessary or prudent to instruct employees and to develop work practice

procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patent.





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Bulk density 600 kg/m3

Water solubility (Not applicable)

(Contact with water liberates toxic gas.)

Solubility in other

solvents

(practically insoluble)

Molecular weight 22.96 g/mol

Additional Physical

Properties

Particle size: typ. 90 % < 0.4 mm

HANDLING & STORAGE

Handling Lithium Amide should be handled under inert gas atmosphere. Avoid contact with

eyes, skin and clothes as well as inhalation.

Lithium Amide decomposes in contact with humidity.

Pay also attention to the Safety Data Sheet.

Storage Lithium Amide should be stored in tightly closed containers under exclusion of

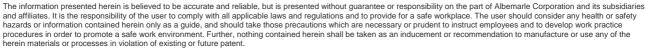
humidity at gentle temperatures. Keep away from heat, sparks and fire. Under exclusion of air and humidity, the material is fairly stable. We recommend a retest after a period of six months after receipt. Pay also attention to the Safety Data

Sheet.

TRANSPORT & PACKAGING

UN number 1390

ADR	Class: 4.3	PG: II	Label: 4.3	
RID	Class: 4.3	PG: II	Label: 4.3	
IMDG	Class: 4.3	PG: II	Label: 4.3	
IATA_C	Class: 4.3	PG: II	Packing instruction (cargo aircraft): 489	
IATA_P	Class: 4.3	PG: II	Packing instruction (passenger aircraft): 483	





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Hazard pictograms





Signal Word Danger

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.

Packaging

Inner packing: Standard packing is 10 kg Polyethylene (PE) bags. PE bags from 10 g to 2,000 g in cans are available on request.

Outer packing: Appropriate clamping ring steel drums

OTHER INFORMATION

Further Related **Documents**

Safety Data Sheet

Our brochure(s)

Lithium & Magnesium Amides





herein materials or processes in violation of existing or future patent