TECHNICAL DATA SHEET

Date of Issue: 2024/12/20

Lithium Nitride

CAS-No.	26134-62-3
EC-No.	247-475-2
REACH No.	01-2120757138-49-0000
Molecular formula	Li3-N
Product number	10000033

SPECIFICATION

Lithium Nitride: min. 94%

METHOD OF ANALYSIS

Assay by determination of nitrogen by the method of Kjeldahl. A detailed laboratory instruction is available on request.

PHYSICAL PROPERTIES

Appearance	fine powder
Color	red brown
Melting point/range	845 °C at 1,013 hPa (Information taken from reference works and the literature.) (Note:under nitrogen)
Density	1.38 g/cm3 at 20 °C (Information taken from reference works and the literature.)
Water solubility	(Not applicable)

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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Molecular weight	34.82 g/mol
Additional Physical Properties	Theoretical lithium weight: 59.8 %

HANDLING & STORAGE

Handling	Lithium Nitride should be handled under inert gas atmosphere. Avoid contact with eyes, skin and clothes as well as inhalation. Dust may form explosive mixture with air. Lithium Nitride decomposes in contact with humidity. Pay also attention to the Safety Data Sheet - Section 7.
Storage	Lithium Nitride should be stored in tightly closed containers under exclusion of humidity at gentle temperatures. Keep away from heat, sparks and fire. When stored according to SDS the material has limited stability due to decomposition over time. We therefore recommend to consume Lithium Nitride within a period of six months after receipt. Pay also attention to the Safety Data Sheet.

TRANSPORT & PACKAGING

UN number 2806

ADR	Class: 4.3	PG: I	Label: 4.3
RID	Class: 4.3	PG: I	Label: 4.3
IMDG	Class: 4.3	PG: I	Label: 4.3
IATA_C	Class: 4.3	PG: I	Packing instruction (cargo aircraft): 488
IATA_P	Class: 4.3	PG: I	

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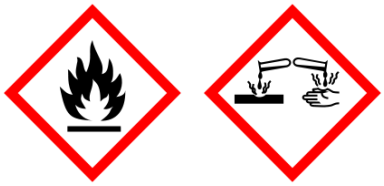
Hazard pictograms



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

1 to 10 kg in double Polyethylene (PE) bags in steel drum.

OTHER INFORMATION

Further Related Documents	Safety Data Sheet

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