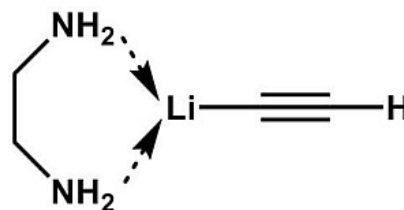


# TECHNICAL DATA SHEET

Date of Issue: 2017/09/07

## Lithium Acetylide - Ethylene Diamine Complex (LAEDA)



|                   |  |
|-------------------|--|
| CAS-No.           | 6867-30-7  |
| EC-No.            | 229-967-9  |
| REACH No.         | 01-2120119136-65   |
| Molecular Formula | $\text{LiC}\equiv\text{CH} \cdot \text{H}_2\text{NCH}_2\text{CH}_2\text{NH}_2$ |
| Product Number    | 401708   |

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|                    |  |
|--------------------|--|
| <b>APPLICATION</b> | Synthesis of substituted acetylenes by reaction with organic halides or with ketons. |
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### SPECIFICATION

LAEDA: min. 90 %

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### METHOD OF ANALYSIS

Volumetric determination of acetylene gas after decomposition with water. Detailed description available on request.

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### PHYSICAL PROPERTIES

|                           |                                 |
|---------------------------|---------------------------------|
| Appearance                | powder                          |
| Color                     | light yellow to brown           |
| Decomposition temperature | from 40 °C                      |
| Density                   | 1.04 g/cm <sup>3</sup> at 20 °C |
| Bulk density              | ca. 400 kg/m <sup>3</sup>       |
| Water solubility          | (Reacts violently with water.)  |

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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 92.07 g/mol

Additional Physical Properties In spite of their slow reaction with lithium acetylide-ethylene diamine, N,N'-dimethyl formamide and N,N'-dimethyl acetamide are suitable for many reactions.

## HANDLING & STORAGE

Handling Harmful by inhalation and if swallowed. Do not breathe dust. Avoid contact with skin and eyes. Never add water to this product.

Storage Under exclusion of air and humidity, the product may be stored for several months. Storage in a refrigerator (0 - 4 °C) is recommended. Material starts to decompose at a temperature of 40 °C. Pay also attention to the official safety regulations (see "GHS Hazard Pictograms").

## TRANSPORT & PACKAGING

UN number 3131

|        |            |       |   |
|--------|------------|-------|---|
| ADR    | Class: 4.3 | PG: I | Label: 4.3 (8)                            |
| RID    | Class: 4.3 | PG: I | Label: 4.3 (8)                            |
| IMDG   | Class: 4.3 | PG: I | Label: 4.3 (8)                            |
| IATA_C | Class: 4.3 | PG: I | Packing instruction (cargo aircraft): 488 |
| IATA_P | Class: 4.3 | PG: I |   |

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.

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## Packaging

100 g and 1 kg bags; 10 kg steel containers with polyethylene inliner.

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## OTHER INFORMATION

|                           |                         |
|---------------------------|-------------------------|
| Further Related Documents | Safety Data Sheet       |
| Our brochure(s)           | Organolithium Compounds |

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