Product Names
3-(Dimethylamino)-1-Propyl lithium-isoprene\(_n\), 1-Lithio-3-dimethylamino-propane-isoprene\(_n\), InitiaLi\(^\text{TM}\) Al 200 CE

Formula
C\(_{5}\)H\(_{12}\)LiN.(C\(_{5}\)H\(_{8}\))\(_n\) (for \(n=2\))

Appearance
Yellow to amber solution

Application
InitiaLi\(^\text{TM}\) functional initiators include protected hydroxyl initiators and tertiary amine initiators for synthesis of hydroxyl or amine functional polymers.

Product Specification

<table>
<thead>
<tr>
<th>3-(Dimethylamino)-1-Propyl lithium-isoprene(_n), wt%</th>
<th>Guaranteed*</th>
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<tbody>
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<td>15 – 30%</td>
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* This product can be made to agreed upon customer specifications.

Solvent
Cyclohexane

Physical Properties
Molecular weight
229.3 (for \(n=2\))

Boiling point or pure solvent
81\(^\circ\)C

Density @20\(^\circ\)C
0.8 for 24 wt.% in cyclohexane

Volatiles, % by wt.
70 – 85, varies with concentration

Flash point
<-30\(^\circ\)C at 23.9 wt%

Pyrophoricity
Non-pyrophoric

Solubility
For \(n=2\): 25wt% (0.9M) at -5 \(^\circ\)C; for \(n=1\): 14wt% (0.7M) at -5 \(^\circ\)C; for \(n=0\): 1.1wt% (0.1M) at -5 \(^\circ\)C

Thermal Stability
3-(Dimethylamino)-1-propyl lithium-isoprene\(_n\) is stable at ambient temperature or below. However, it should be kept free from heat, air, water, carbon dioxide and alcohols.
Toxicity/Safety Data
Corrosive to the eyes (may cause blindness), skin, mucous membranes and upper respiratory tract. Inhalation of vapors may cause dizziness, nausea, anesthesia, numbness, motor weakness in fingers and toes, incoordination, and headache. If ingested, may produce a lung aspiration hazard. May be harmful if swallowed, inhaled, or absorbed through skin.

ADDITIONAL INFORMATION ON SAFETY IS CONTAINED IN THE FMC NEW PRODUCT DATA SHEET (NPDS) AVAILABLE FOR THIS PRODUCT.

Handling/Storage/Disposal
Flammable liquid. Water reactive. Corrosive. Use in a closed system under argon or nitrogen. Do not get in eyes, on skin or clothing. Do not breathe vapors or mist. Store in a cool, dry place. Keep container closed. Keep away from sources of ignition, water, air, and oxidizing agents. Wear full face protective equipment and gloves. In case of fire, do not use water or carbon dioxide.

Shipping Containers
Glass bottles 125 mL, 500 mL and 1 L bottles

Shipping Limitations
Shipments of 3-(Dimethylamino)-1-Propyllithium-(isoprene), are described as "Flammable liquids, corrosive, N.O.S.(ALKYLAMINOPROPYLLITHIUM IN CYCLOHEXANE), 3 (8), UN 2924, PG II." Shipments require "Flammable Liquid" and "Corrosive" labels.

Post, Parcel
Not acceptable

Sea
Class 3 (8) (IMDG)

Road, Rail (USA)
Class 3 (8) (DOT)

Road, Rail (EU)
Class 3 (8) (RID/ADR)

Air
Class 3 (8) (IATA)
2.5 L maximum per inner glass container.
5 L maximum per single/outer container.
Cargo aircraft only

For shipments within Europe, labeling for supply requirements are:

F
Highly Flammable

C
Corrosive

N
Dangerous for the Environment

R&S Phrases
See Material Safety Data Sheet

Responsible Care® initiative dictates that all shipments must be transported in a DOT-approved vehicle in a responsible manner (i.e., no flat bed trucks).

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