Introduction
Lonzacures are a powerful class of high quality and easy to handle polyurethane chain extenders and epoxy hardeners for advanced two component systems.

Applications
Lonzacure DETDA 80 LC is a low color aromatic chain extender for polyurethanes. In polyurethane and polyurea systems it is used to produce polymers at low ambient temperatures. Most common applications are in RIM and spray coating. As Epoxy hardener it is used where a long pot-life is required. Most common applications are for prepregs, filament winding etc. This curative has extremely low initial color and excellent color stability.

Technical Properties
Appearance: clear liquid
Equivalent weight [g/val NH$_2$-groups] 89
Pour point [°C] –15
Water [%] max. 0.1

Viscosity vs Temperature of Lonzacure® DETDA 80 LC

<table>
<thead>
<tr>
<th>Temperature [°C]</th>
<th>Viscosity [mPa*s]</th>
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<tbody>
<tr>
<td>20</td>
<td>170</td>
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<td>30</td>
<td>130</td>
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<td>40</td>
<td>90</td>
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<td>70</td>
<td>50</td>
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<td>80</td>
<td>50</td>
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</tbody>
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Features and Performance Highlights
In addition to all regular DETDA 80 applications, this product can be used in transparent or pigmented systems.

As PU chain extender
- Good mechanical and chemical properties
- Good dynamic performance
- Good hydrolytic resistance
- High temperature resistance
- Reduced toxicity

As Epoxy curing agent
- Glass temperature Tg (°C) 204
- Flexure modulus (MPa) 2385
- Critical stress intensity factor KIC (MPa*m$^{0.5}$) 0.70
- Fracture energy GIC (J*m$^{-2}$) 177
- Charpy impact resistance (KJ*m$^{-2}$) 25
- Heat deflection temperature (°C) 175
- Elongation at break (%) 6.0

Processing and Pot Life
Lonzacure DETDA 80 LC provides high reactivity and is ideal for PU elastomers produced with automatic RIM machines and for spray applications. Lonzacure DETDA 80 LC is processed at ambient or moderate temperatures. Curing of Epoxy resins with Lonzacure DETDA 80 LC takes place at temperature of 100 - 200°C. Geltime at 150°C, (Min) 23

Shelf Life and Storage
Lonzacure DETDA 80 LC has a shelf life of 1 year. This product is color stabilized but we recommend to store it in a dry, cool and well ventilated place. Keep away from heat, light and air.

Handling/Safety Precautions
Safe Handling advice: Avoid contact with skin and eyes. Provide sufficient air exchange. Do not flush into surface water or sanitary sewer systems.
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