Stabaxol® L
PLASTICS ADDITIVES / Hydrolysis Stabilizer

Description
STABAXOL® L is a liquid* hydrolysis protection agent with a distinctly reduced amount of volatile substances. It is suitable for polyester based polyols, polyester polyurethanes like TPU’s, and rollable Urethane rubber.

Advantages
STABAXOL® L is liquid at room temperature and therefore it needs no heated liquid dosing system. It has a distinctly reduced amount of volatile substances compared to STABAXOL® I and it has no labelling as hazardous good.

Use
The recommendable amount of additive depends upon the acid number, the humidity and the desired hydrolysis protection effect.
Rollable PUR-rubbers should be stabilized with 0.5-5 ppw of the final product, polyester polymers and thermoplastic polyurethanes with 1.5-2.5 ppw.

![Hydrolytic Stability of polyester based TPU-Elastomers](image)

The optimum input should always be determined by preliminary tests. STABAXOL® L can be dosed as a liquid on the respective processing unit, preferably separate.

Our employees in the Technical Applications Department will gladly assist you in determining the optimal concentration.

Stabaxol® L can be processed at all appropriate polymer processing units that ensure adequate
dispersion of the substance in the polymer. According to our experience a twin-screw extruder with an L / D ratio > 38 is necessary. Stabaxol® L is added as a liquid in a pressure-free zone.

Typical properties

<table>
<thead>
<tr>
<th>Chemical composition:</th>
<th>monomeric carbodiimide</th>
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<tbody>
<tr>
<td>physical form:</td>
<td>yellowish liquid*</td>
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<tr>
<td>density (+20°C/68°F):</td>
<td>approx. 0,93 g/cm³</td>
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<tr>
<td>melting range:</td>
<td>ca. -33°C (-27,4°F)</td>
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<tr>
<td>viscosity:</td>
<td>870 mPa.s (dynamic)</td>
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<tr>
<td>solubility:</td>
<td>soluble in organic solvents like dichloromethane, toluene or alcohols; insoluble in water</td>
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<tr>
<td>carbodiimide content:</td>
<td>max. 9,0 %</td>
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*meta-stable state

Packaging
metal cans, contains 10 kg, 300 kg per pallet
metal cans, contains 50 kg, 400 kg per pallet

Storage stability
Stabaxol® L can be kept for at least 2 years under cool, dry conditions.

Handling & Safety
Consult the safety data sheet (SDS) for additional handling information on Stabaxol® L.

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