Function
Substrate wetting additive

Physical / Chemical properties
Please refer to our Technical Data Sheet as well as our Safety Data Sheet concerning relevant physical & chemical characteristics.

Content of Hazardous components
DYNOL™ 980 contains following dangerous ingredients above 0.01% according to Regulation (EC) No. 1272/2008 [CLP] which are subject to restrictions according to Ecolabel (2014/312/EU) because of their GHS classification:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration, %</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly(oxy-1,2-ethanediyl), a,a’-[1,4-dimethyl-1,4-bis(3-methylbutyl)-2-butyne-1,4-diyl]bis[w-hydroxy-]”</td>
<td>169117–72–0</td>
<td>approx. 50</td>
<td>H318,1 Eye Dam.</td>
</tr>
<tr>
<td></td>
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<td>H412, 3 Aquatic Chronic</td>
</tr>
<tr>
<td>Cyclotetrasiloxane, 2,2,4,4,6,6,8,8–octamethyl–(impurity of raw material)</td>
<td>556–67–2</td>
<td>&lt; 0.05</td>
<td>H226,3 Flam Liq.</td>
</tr>
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<td>H361f, 2 Repr.</td>
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<td>H413, 4 Aquatic Chronic</td>
</tr>
</tbody>
</table>

*Please note that this component is surfactant. For the specified concentration limits of the surfactants please refer to the Appendix 4 (a) of 5(a)(i) Derogations applying to substance groups of Ecolabel (2014/312/EU).

Absence of substances
We do not expect the presence of following substances within DYNOL™ 980:
- Isothiazolinone compounds:
  - 2–methyl–2H–isothiazol–3–one (MIT)
  - 1,2–benzisothiazol–2(2H)–one (BIT)
  - 2–octyl–2H–isothiazol–3–one (OIT)
• 3-iodo-2-propynyl butylcarbamate (IPBC)
• N-(3-aminopropyl)-N-dodecylpropane-1, 3-diamine
• Zinc oxide
• Alkylphenoethoxylates (APEOs) and their derivatives
• Long chain perfluorinated surfactants:
  - Perfluorocarboxylic acids
  - Perfluoroalkyl sulfonates
• Metals and their compounds:
  - Cadmium, lead, chromium VI, mercury, arsenic, barium, selenium, antimony and cobalt
• Crystalline silica and leucophyllite minerals containing crystalline silica
• Phthalates:
  - DEHP (Bis-(2-ethylhexyl)-phthalate)
  - BBP (Butylbenzylphthalate)
  - DBP (Dibutylphthalate)
  - DMEP (Bis2-methoxyethyl) phthalate
  - DIBP (Diisobutylphthalate)
  - DIHP (Di-C6–8-branched alkyphthalates)
  - DHNUP (Di-C7–11-branched alkyphthalates)
  - DHP (Di-n-hexylphthalate)
• Volatile Aromatic Hydrocarbons
• Formaldehyde
• Nanomaterials
• Halogenated solvents
• Adipic acid dihydrazide (ADH)
• Methanol

**PBT (Persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative)**

DYNOL™ 980 does not contain PBT / vPvB substances at a content greater or equal to 0.1 % according to annex XIII in REACh.

**VOC (volatile organic compounds) – content**
Determination via DIN EN ISO 11890/2: approx. 3 g/l

**SVOC (semi volatile organic compounds) – content**
Determination via DIN EN ISO 11890/2: approx. 106 g/l

**REACH / SVHC**
Please refer to our additional statements.
The information given above is based on and represents our current compositional
knowledge (based on the knowledge of the production process, supplier information
for raw materials and analytical data where applicable).

Please note that Evonik Resource Efficiency GmbH does not analyse whether the
mentioned substances are contained, because the content of such substances is not
part of our product specification or formulation.

We use raw materials of technical purity, therefore negligible amounts on the level of
natural / technical impurities cannot be excluded.

In case of provided values these are considered to be typical concentrations and are
not part of the product specification.

All provided information is based on our present knowledge and experience and is true
and complete to the best of our knowledge and belief. However, no warranty, whether
expressed or implied, or guarantee of product properties in the legal sense is intended
or implied.

In case of any questions concerning the provided information or if you need additional advice
you are welcome to contact us:

Evonik Resource Efficiency GmbH
Goldschmidtstraße 100
45127 Essen
Germany
www.evonik.de
www.coating-additives.com

Please contact for region Europe, Middle East, Russia and Afrika
regulatory-coating-additives-europe@evonik.com

Please contact for region Americas
regulatory-coating-additives-americas@evonik.com

Please contact for region Asia, Australia and New Zealand
regulatory-coating-additives-asia@evonik.com