Function
Silicone resin hydrophobing agent

Content of Hazardous components
TEGO® Phobe 1659 contains the 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>Content %</th>
<th>Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol*</td>
<td>64-17-5</td>
<td>&gt;= 1 – &lt; 2.0</td>
<td>H225, 2 Flam. Liq.</td>
<td>not subject to any restrictions according to Ecolabel (2014/312/EU)</td>
</tr>
<tr>
<td>Confidential**</td>
<td>Conf.</td>
<td>&lt; 1</td>
<td>H318, 1 Eye Dam.</td>
<td>surfactnt</td>
</tr>
<tr>
<td>Cyclohexasiloxane, 2,2,4,4,6,6,8,8,10,10,12-dodecamethyl- (impurity of raw material)</td>
<td>540–97–6</td>
<td>&lt;0.1</td>
<td>–</td>
<td>listed as SVHC</td>
</tr>
<tr>
<td>Cyclopentasiloxane, 2,2,4,4,6,6,8,8,10,10 decamethyl- (impurity of raw material)</td>
<td>541–02–6</td>
<td>&lt;0.1</td>
<td>–</td>
<td>listed as SVHC</td>
</tr>
<tr>
<td>Cyclotetrasiloxane,2, 2,4,46,6,8,8-octamethyl (impurity of raw material)</td>
<td>556–67–2</td>
<td>&lt;0.1</td>
<td>H226, 3 , Flam. Liq. H361f, 2 , Repr. H413, 4 , Aquatic Chronic</td>
<td>listed as SVHC</td>
</tr>
</tbody>
</table>

*Please note that substances classified as H318, H225 are not subject to any restrictions according to Ecolabel (2014/312/EU).
**Please note that the component is a 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 TEGO® Phobe 1659:

- Isothiazolinone compounds:
  - 2-octyl-2H-isothiazol-3-one (OIT)
- 3–iodo–2–propynyl butylcarbamate (IPBC)
- Zinc pyrithione
- N–(3–aminopropyl)–N–dodecylpropane–1, 3–diamine
- Zinc oxide
- Alkylphenolethoxylates (APEOs) and theirs 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 alklyphthalates)
  - DHNUP (Di–C7–11–branched alklyphthalates)
  - DHP (Di–n–hexylphthalate)
- Adipic acid dihydrazide (ADH)
- Methanol
- Formaldehyde
- Volatile Aromatic Hydrocarbons
- Halogenated solvents
- Nanomaterials

Biocides
TEGO® Phobe 1659 contains following biocides:

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS-No.</th>
<th>Amount [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2–Benzisothiazol–3(2H)–one</td>
<td>2634–33–5</td>
<td>0.0180</td>
</tr>
</tbody>
</table>
VOC (volatile organic compounds) – content
Determination via DIN EN ISO 11890/2: approx. 19 g/l

SVOC (semi-volatile organic compounds) – content
Determination via DIN EN ISO 11890/2: approx. 3.5 g/l

REACH / SVHC
Please refer to RDS and EU-SDS on our homepage.
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.