SiBrid® DE-12
Technical Data Sheet

Product Name: SiBrid® DIETHICONE – DE-12
Product Code: DE-12
INCI Name: Polydiethylsiloxane
CAS #: 63148-61-8
EINECS #: N/A; polymer
Date Issued: 3/9/12
Revision Number: 2

Description:
DE-12 is a light fluid with a smooth, dry skin feel. Excellent slip and spreading properties make DE-12 especially suited for use in water in silicone and powdercream foundations. DE-12 is a solvent for a wide range of cosmetic oils, silicones, and even some waxes.

Typical Properties
Note: The values below are typical, not intended for use in preparing specifications. Please contact the Gelest PCS sales representative when writing specifications.

<table>
<thead>
<tr>
<th>Test</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear to pale amber liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight, characteristic</td>
</tr>
<tr>
<td>Refractive Index</td>
<td>1.438 @ 25°C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>15-20 cPs @ 25°C</td>
</tr>
</tbody>
</table>

Solubility

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deionized Water</td>
<td>48.90</td>
</tr>
<tr>
<td>Magnesium Sulfate</td>
<td>0.20</td>
</tr>
<tr>
<td>Butylene Glycol</td>
<td>6.00</td>
</tr>
<tr>
<td>Methylparaben</td>
<td>0.20</td>
</tr>
<tr>
<td>Benzyl Alcohol</td>
<td>0.10</td>
</tr>
<tr>
<td>Cyclopentasiloxane</td>
<td>15.00</td>
</tr>
<tr>
<td>PEG-9 Polydimethylsiloxyl Ethyl Dimethicone</td>
<td>2.00</td>
</tr>
<tr>
<td>DE-12 Polydiethylsiloxane</td>
<td>5.00</td>
</tr>
<tr>
<td>AM 118 Stearyl Methicone</td>
<td>1.00</td>
</tr>
<tr>
<td>Laureth-7</td>
<td>0.50</td>
</tr>
<tr>
<td>Propylparaben</td>
<td>0.10</td>
</tr>
<tr>
<td>Color Grind</td>
<td></td>
</tr>
<tr>
<td>DE-12 Polydiethylsiloxane</td>
<td>7.50</td>
</tr>
<tr>
<td>Pigment (methicone treated)</td>
<td>14.00</td>
</tr>
</tbody>
</table>

Storage
SiBrid® DE-12 should be stored between 5-30°C in the original container closed tightly.