**MIRASIL® D-DML**

**Description**

CTFA/INCI Name: DIMETHICONE (and) DIMETHICONOL.  
CAS N° 63148 –62 –9 (and) 70131 – 67 – 8  
MIRASIL D-DML is a solution of a Dimethiconol gum of very high viscosity at 13% in a low viscosity Dimethicone.  
Easy to handle blend of high molecular weight Dimethiconol.

**Examples of applications**

- Lotions for hands and body  
- Protecting creams and Sun Care  
- Colour cosmetics  
- Shower gels  
- Moisturizing creams and lotions

**Advantages**

- Improves actives efficiency  
- Improves application feel and aesthetics  
- Provides a smooth and slippery skin feel  
- Provides a water proof non occlusive film  

Suggestions for formulation: to prepare an emulsion with MIRASIL D-DML we recommend high speed stirring and the use of a high shear homogenizer.

**Characteristics**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Appearance (Standard SH-1)</td>
<td>Clear liquid visibly free from suspended matter</td>
</tr>
<tr>
<td>Colour (Standard SH-42), Hazen</td>
<td>&lt; 30</td>
</tr>
<tr>
<td>Identity, I.R. Spectrum (Standard SH-73)</td>
<td>Conform</td>
</tr>
<tr>
<td>Viscosity, at 25°C (Standard SH-13), mPa.s, approx</td>
<td>4000</td>
</tr>
<tr>
<td>Silicone content</td>
<td>100</td>
</tr>
<tr>
<td>Solubility in water (%)</td>
<td>&lt; 0.1</td>
</tr>
<tr>
<td>Specific gravity at 25°C, kg/m³, approx.</td>
<td>930</td>
</tr>
<tr>
<td>Absorption UV DO (Standard SH-69)</td>
<td>&lt; 0.2</td>
</tr>
<tr>
<td>Refractive Index (Standard SH-9), 25°C</td>
<td>&lt; 1.410</td>
</tr>
<tr>
<td>Heavy metals (Standard SH-70), ppm Pb</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Octamethylcyclotetrasiloxane content (%)</td>
<td>&lt; 0.9</td>
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</tbody>
</table>
Characteristics (cont’)

Miscible with:
Alkyl esters (Myristate, Palmitate), Dimethicone, Phenyl Trimethicone, Isododecane, Isopar H.

Partially miscible with:
Mineral oil, Jojoba oil, Sunflower oil, Capric/Caprylic Triglycerides, Octyl Palmitate.

Not miscible with:
Water, Ethanol, Some vegetable oils, Propylene Glycol

Packaging

MIRASIL D-DML is available in:
4 Plastic drums 200 kg / Pal. 800 kg
Plastic Container 900 kg

Storage and shelf life

When stored in its original unopened packaging, at a temperature below +40°C, the MIRASIL D-DML may be stored for up to 36 months from the date of manufacture clearly marked on the packaging.
Beyond this date, Bluestar Silicones no longer guarantees that the product meets the sales specifications.

Safety

Please consult the Safety Data Sheet of MIRASIL D-DML.