Product Name: Rheopearl ISL2

Chemical Name: Stearoyl Inulin

INCI NAME: Stearoyl Inulin

Chemical Structure:

Safety data:
We don't have any data about Rheopearl ISL2. But we have safety data about Stearoyl Inulin (Trade Name: Rheopearl ISK) which is similar to Rheopearl ISL2 on chemical structure.

Patent Information:
Original development of Stearoyl Inulin was done by Kose Corporation. Kose Corporation has several patent applications and granted patents concerning Stearoyl Inulin. Kose Corporation had granted the licensing and sub-licensing of above patents to Chiba Flour Milling and the customers of Rheopearl ISL2 under the agreement between Kose Corporation and Chiba Flour Milling Co., Ltd.

Manufacturer:
Chiba Flour Milling Co., Ltd.
17, Shinminato, Mihama-ku, Chiba-city, Chiba 261-0002 Japan
Phone: 81-43-241-0108 Fax: 81-43-245-1781

Cometic Raw Material

Rheopearl ISL2

MAIN FUNCTION
Gelling of oils
Stabilization of emulsion system
Rheological modification of wax
Main Function

Function 1: Gelling of oils: hard white gel
Function 2: Stabilization of emulsion system
Function 3: Rheological modification of wax

Function 1: Gelling of oils: hard white gel

- Rheopearl ISL2
- Isotridecyl Isononanoate
- Water in Silicone Cream

Function 2: Stabilization of emulsion system

W/O creams with low viscosity can be made by using Rheopearl ISL2 as an emulsion stabilizer.

<table>
<thead>
<tr>
<th>Water in Silicone Cream</th>
<th>WSL-1</th>
<th>Wax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rheopearl ISL2</td>
<td>2.0</td>
<td>2.0</td>
</tr>
<tr>
<td>Wax</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isotridecyl Isononanoate</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Dimethicone</td>
<td>2.0</td>
<td>2.0</td>
</tr>
<tr>
<td>Cyclomethicone</td>
<td>20.0</td>
<td>20.0</td>
</tr>
<tr>
<td>Sodium Chloride</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Butylene Glycol</td>
<td>7.0</td>
<td>7.0</td>
</tr>
<tr>
<td>Water</td>
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<td>63.0</td>
</tr>
<tr>
<td>Total (wt/wt%)</td>
<td>100.0</td>
<td>100.0</td>
</tr>
</tbody>
</table>

Measured by: Modular Compact Rheometer MCR-100 (ANTON PAAR GmbH)
Strain 0.5%, Angular frequency 10s⁻¹, Sample thickness 1mm, φ25mm parallel plate

Function 3: Rheological modification of wax

Rheopearl ISL2 works as improver of texture, spreadability and wearing properties.

- Wax: 40% Triethyl Hexanoine: 60% Rheopearl: 2%
- Hardness (g): measured at 25 degrees C by using Rheometer φ3mm