STEPLAN-MILD® GCC
A Natural*, Food-Grade Thickener for Personal Care

STEPLAN-MILD® GCC is a 100% active thickener for aqueous liquid cleansing products. The product is a Glyceryl Caprylate/Caprate made from 100% renewable carbon. It is made by esterification of glycerin from vegetable oil sources and medium chain fatty acid from coconut or palm kernel oil.

INCI Name: Glyceryl Caprylate/Caprate
Physical Form @ 25°C: Off-white liquid to soft paste
Use Level: 0.5-4.0%

Multi-Functional:
- Thickener
- Foam enhancer
- Co-emulsifier

Applications:
- Shampoos
- Body washes
- Facial cleansers

Key Attributes:
- Affirmed GRAS – permitted as additive in food and nutritional products
- Safe – mild, non-sensitizing and non-irritating to eyes and skin
- PEG and EO/PO-free —> No 1,4 dioxane
- Nitrogen-free —> No nitrosamines
- Can be incorporated in cold mix at any step of the process
- Good processability – shows no gelation

Amount of STEPLAN-MILD GCC to Thicken Surfactant/CAPB Systems (15% total actives, 4:1 ratio) to about 6,000 cps

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>STEPAN Trade Name</th>
<th>INCI Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLES-2</td>
<td>STEOL® CS-230</td>
<td>Sodium Laureth Sulfate</td>
</tr>
<tr>
<td>CAPB</td>
<td>AMPHOSOL® HCA</td>
<td>Cocoamidopropyl Betaine</td>
</tr>
<tr>
<td>AOS</td>
<td>BIO-TERGE® AS-40 CG</td>
<td>Sodium C14-16 Olefin Sulfonate</td>
</tr>
<tr>
<td>SLS</td>
<td>STEPLANOL® WA-EXTRA</td>
<td>Sodium Lauryl Sulfate</td>
</tr>
<tr>
<td>ALS</td>
<td>STEPLANOL® AM</td>
<td>Ammonium Lauryl Sulfate</td>
</tr>
<tr>
<td>TEALS</td>
<td>STEPLANOL® WAT-K</td>
<td>TEA Lauryl Sulfate</td>
</tr>
<tr>
<td>Cocamide MEA</td>
<td>NINOL® COMF</td>
<td>Cocamide MEA</td>
</tr>
<tr>
<td>Cocamide DEA</td>
<td>NINOL® 40-CO</td>
<td>Cocamide DEA</td>
</tr>
</tbody>
</table>

* Natural defined as renewable carbon content of 100%
Performance Advantages
Effective Viscosity Building v. Traditional Thickeners

Enhanced Foaming

Replacement for MEA & DEA Amides
STEPAN-MILD GCC’s advantage is natural and no nitrosamines

Recommended formulations are available at www.stepan.com:

- Mild, Amide-Free Clear Body Wash
- Natural, EO-Free Facial Cleanser
- Sulfate-Free, Conditioning Shampoo
- Mild, Amide-Free Baby Shampoo

For further technical inquiries contact Stepan Technical Service at 1-800-745-7837 or at techserv@stepan.com.