The personal care market in Asia is an innovation seedbed where product developments and trends are rapidly adopted and highly expansive. To meet the increasing demand for multi-functional personal care products in Asia, manufacturers are looking for more diverse ways to create value-added personal care ingredients. Stepan offers STEPAN-MILD GCC as the next innovative solution.

1. **STEPAN-MILD GCC** is a naturally-derived ingredient listed on the Inventory of Existing Cosmetic Ingredients in China (IECIC).

   We refer to an ingredient as ‘naturally derived’ when it is composed of greater than 50% of biorenewable carbon. Biorenewable Carbon Index (BCI) is a value based on the percent carbon derived from a biorenewable resource. Biorenewable is defined by Stepan as originating from animal, plant or marine material. The derived BCI* for STEPAN-MILD GCC is 100.

2. **STEPAN-MILD GCC works as a preservative booster.**

   The European Scientific Committee Safety (SCCS) has recommended to lower the maximum percentage of preservative (phenoxyethanol) to 0.4% in cosmetic products for children under 3 years old. STEPAN-MILD GCC can help lower the use level of phenoxyethanol.

3. **STEPAN-MILD GCC works as a secondary thickener for amino acid-based surfactants formulation.**

   It provides excellent synergy with glucamate-type thickeners (2% by wt.) for viscosity enhancement.

4. **STEPAN-MILD GCC is the base for Stepan’s Structured Liquids Technology.**

   Benefits of Stepan’s surfactant-based suspension system:
   - Suspension of actives, oils or other additives of your choice
   - Simple formulation
   - Polymer and electrolyte-free suspension system
   - Good foaming properties
   - Enhanced skin feel and mildness

   STEPAN-MILD GCC together with a high Hydrophilic-Lipophilic Balance (HLB) surfactant forms a multi-lamellar microvesicle system in the formulation (see diagram above). This resultant formulation is what is known as a structured liquid.

5. **Stepan has developed STEPAN-MILD GCC-L, a liquid grade of STEPAN-MILD GCC.**

   Benefits of STEPAN-MILD GCC-L over STEPAN-MILD GCC:
   - Ease of handling
   - Increased skin emolliency and moisture retention

<table>
<thead>
<tr>
<th>Challenge Test / Criteria A of pH.Eur</th>
<th>JGU-230816-1</th>
<th>JGU-271016-2</th>
<th>JGU-271016-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingredients</td>
<td>%</td>
<td>%</td>
<td>%</td>
</tr>
<tr>
<td>STEL® CS-230 HA (Sodium Laureth Sulfate)</td>
<td>4% actives</td>
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<td></td>
</tr>
<tr>
<td>AMPHOSOL® CG-UN (Cocamidopropyl betaine)</td>
<td>2% actives</td>
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<tr>
<td>STEPAN-MILD GCC</td>
<td>0%</td>
<td>0.5%</td>
<td>1%</td>
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<tr>
<td>Phenoxyethanol</td>
<td>0.4%</td>
<td>0.5%</td>
<td>0.3%</td>
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<tr>
<td>pH adjuster Citric Acid</td>
<td>pH 5.0 - 5.5</td>
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</tr>
</tbody>
</table>

**Challenge Test results**

- Failed
- Passed

Biorenewable is defined by Stepan as originating from animal, plant or marine material. The derived BCI* for STEPAN-MILD GCC is 100.

Meet Stepan at These Upcoming Events

**Home and Personal Care Ingredients India (HPCI)**

Bombay Exhibition Centre,
Goregaon, Mumbai, India
14 - 15 March 2019
Booth No.: 165
http://www.hpci-india.com/

Contact Us

Tell us how you feel about our newsletter or if you have anything you would like us to share in our next issue, we would love to hear from you.

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