

PERSONAL CARE POST

Latest innovation in Asia: STEPAN-MILD® GCC

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.

| Challenge Test / Criteria A of pH.Eur | | | |
|---|---------------|---------------|---------------|
| Ingredients | JGU-230816-1 | JGU-271016-2 | JGU-271016-1 |
| STEOL® CS-230 HA (Sodium Laureth Sulfate) | 4% actives | | |
| AMPHOSOL® CG-UN (Cocamidopropyl betaine) | 2% actives | | |
| STEPAN-MILD GCC | 0% | 0.5% | 1% |
| Phenoxyethanol | 0.4% | | 0.3% |
| pH adjuster Citric Acid | pH 5.0 - 5.5 | | |
| Challenge Test results | Failed | Passed | Passed |

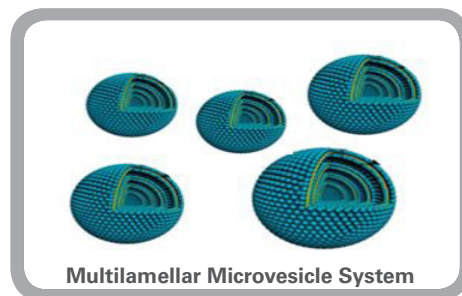
3. STEPAN-MILD GCC works as a secondary thickener for amino acid-based surfactants formulation.

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

- Increased clarity in structured liquid suspension systems

| | |
|---------------------|------------------------------|
| | |
| GCC | GCC-L |
| Melting point: 25°C | Crystallisation point: <15°C |
| 100% actives | 61% actives |

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/>

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