TEGO® Betain 810
Very mild amphoteric surfactant

- mucous membrane compatible
- low solubilizing power
- good foam behaviour
- free of preservatives

Personal Care
**INCI name (CTFA name)**
Capryl/Capramidopropyl Betaine

**Chemical and Physical properties**

<table>
<thead>
<tr>
<th>Form</th>
<th>low-viscous liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active matter</td>
<td>approx. 35%</td>
</tr>
</tbody>
</table>

**Properties**

- TEGO® Betain 810 is a very mild surfactant: TEGO® Betain 810 exhibits very low mucous membrane irritation. E. g. in the in-vitro RBC-test TEGO® Betain 810 is evaluated as "basically non irritant".
- TEGO® Betain 810 provides high foam volume and pleasant lather properties to mild formulations.
- TEGO® Betain 810 is an amphoteric surfactant, it is compatible with anionic, TEGO® Betain 810 has only poor solubilizing properties and shows therefore no defatting properties.
- Free of preservatives.
- Low viscosity aqueous solution (pumpable).
- TEGO® Betain 810 may decrease the viscosity of concentrated surfactant systems.
- Biodegradable.
- TEGO® Betain 810 is produced almost without by-products.

**Application**

TEGO® Betain 810 as a very mild surfactant is used in all kinds of personal cleansing products and in technical applications:

- mild facial wash formulations
- shampoos
- concentrated shower and bath preparations
- intimate hygiene washes

**Suggested usage concentration**

1 – 10 % TEGO® Betain 810

**Packaging**

880 kg pallet (4 x 220 kg drum)

**Storage**

The viscosity of TEGO® Betain 810 may increase remarkably when stored below 10 °C. This change of viscosity is reversible when the product is heated up to temperatures above 10 °C. The quality of the product is not influenced by this procedure.

**Hazardous goods classification**

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in accidents and fires
- toxicity and ecological effects

is given in our material safety data sheets.
# Guide Line Formulations

## 2-in-1-Shampoo
**UK 59/18**

### Phase A
- Sodium Laureth Sulfate (28 %) | 33.0 %
- TEGO® Betain 810 (Capryl/Capramindopropyl Betaine) | 1.0 %
- TEGIN® G 1100 (Glycol Distearate) | 1.5 %
- REWOMID® C 212 (Cocamide MEA) | 1.7 %
- Water | 37.6 %
- TEGO Betain® F 50 (Cocamidopropyl Betaine) | 11.7 %
- Perfume | 0.5 %

### Phase B
- Sodium Laureth Sulfate (28 %) | 10.0 %
- TEGO® Alkanol 16 (Cetyl Alcohol) | 0.5 %
- ABIL WAX 9814 (Cetyl Dimethicone) | 2.5 %
- Preservative | q.s.
- Citric Acid | q.s.

**Preparation:**

A Mix the ingredients up to the perfume, heat up to 70 °C (the TEGIN® G 1100 has to be melted). Add perfume at a temperature below 50 °C, then water and TEGO® Betain F 50.

B Heat the Sodium Laureth Sulfate up to 60 °C, then solubilize TEGO® Alkanol 16 and then ABIL WAX 9814. Stir phase B into phase A and cool down.

## Mild Facial Cleansing Lotion
**WA 111/1**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allantoin</td>
<td>0.3%</td>
</tr>
<tr>
<td>Water</td>
<td>85.5%</td>
</tr>
<tr>
<td>TEGOSOFT® GMC 6 (PEG-6 Capryl/Capric Glycerides)</td>
<td>1.5%</td>
</tr>
<tr>
<td>TEGO® Betain 810 (Capryl/Capramindopropyl Betaine)</td>
<td>3.7%</td>
</tr>
<tr>
<td>LACTIL® (Sodium Lactate; Sodium PCA; Glycine; Fructose; Urea; Niacinamide; Inositol; Sodium Benzoate; Lactic Acid)</td>
<td>2.0%</td>
</tr>
<tr>
<td>Hamamelis Extract</td>
<td>2.0%</td>
</tr>
<tr>
<td>Ethanol</td>
<td>5.0%</td>
</tr>
<tr>
<td>Preservative q.s.</td>
<td></td>
</tr>
<tr>
<td>Perfume q.s.</td>
<td></td>
</tr>
</tbody>
</table>

**Preparation:**

Mix the ingredients in the given order.

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The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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