

## TEGOSOFT® GC TEGOSOFT® GMC 6

Hydrophilic emollients for shampoos, shower and bath preparations

- improve skin feel
- clearly soluble in aqueous surfactant solutions
- solubilize oils and oil-soluble ingredients

Personal Care

**INCI name (CTFA name)**

TEGOSOFT® GC                      PEG-7 Glyceryl Cocoate  
 TEGOSOFT® GMC 6                PEG-6 Caprylic/Capric Glycerides

<b>Chemical and physical properties (not part of specifications)</b>	<b>TEGOSOFT® GC</b>	<b>TEGOSOFT® GMC 6</b>
Form	liquid	liquid
<b>Solubility at 25 °C at 10 % concentration</b>		
Water	soluble (slight turbidity)	soluble
Cosmetic alcohol	soluble	soluble
Paraffin oil (app. 20 mPas)	insoluble	insoluble
Isopropylmyristate	insoluble	insoluble
Sunflower seed oil	dispersible	soluble (slight turbidity)
Glycerol	insoluble	dispersible
1,2-Propylene glycol	dispersible	soluble

TEGOSOFT® GC fulfils the requirements of Pharmacopoe Européenne.

**Properties**

TEGOSOFT® GC and TEGOSOFT® GMC 6

- are clearly soluble in aqueous surfactant solutions
- act as a superfatting agent to hair and skin
- solubilize oils and oil-soluble ingredients (e.g. menthol, salicylic acid and its derivatives, camphor)
- are stable in medium pH range (app. 5 to 8)
- result in surfactant preparations with good foam quality.

**Application**

TEGOSOFT® GC and TEGOSOFT® GMC 6 are used as a

- superfatting agent in shampoos, shower and bath preparations
- solubilizer in skin cleansing preparations, bath oils, facial cleansers and hair rinses

**Recommended usage concentration**

2 – 7 % TEGOSOFT® GC resp.  
 TEGOSOFT® GMC 6

**Packaging**

880 kg pallet (4 x 220 kg drum)

**Storage**

Store in sealed containers at room temperature and protect from humidity. Turbidity occurring at low temperature is reversible and can be simply removed by warming the product.

**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

<b>Mild Babyshampoo, slightly conditioning KA 052666</b>	
REWOTERIC® AM C (Sodium Cocoamphoacetate)	10.0 %
REWOPOL® SB CS 50 B (Disodium PEG-5 Laurylcitrate Sulfosuccinate; Sodium Laureth Sulfate)	5.0 %
REWOPOL® SB FA 30 B (Disodium Laureth Sulfosuccinate)	10.0 %
REWODERM® LI S 80 (PEG-200 Hydrogenated Glyceryl Palmitate; PEG-7 Glyceryl Cocoate)	4.0 %
TEGOSOFT® GC (PEG-7 Glyceryl Cocoate)	0.5 %
REWOMID® IPP 240 (Cocamide MIPA)	0.5 %
VARISOFT® PATC (Palmitamidopropyltrimonium Chloride)	2.5 %
Water	67.5 %
Citric Acid Monohydrate	q.s.
Preservative	q.s.
<b>Preparation:</b> Homogenize the ingredients in the given order at approximately 50 °C and stir. Adjust the pH value to approximately 5.5 with Citric Acid and the desired viscosity with Sodium Chloride. Finally add preservative as required.	

<b>Mild Shower Gel ST-SB 3</b>	
Sodium Laureth Sulfate (28 %)	37.0 %
TEGOSOFT® GC	1,5 %
Water	42.5 %
REWOTERIC® AM C (Sodium Cocoamphoacetate)	9.0 %
TEGO® Betain 810 (Capryl/Capramidopropyl Betaine)	5.0 %
LACTIL® (Sodium Lactate; Sodium PCA; Glycine; Fructose; Urea; Niacinamide; Inositol; Sodium Benzoate; Lactic Acid)	1.0 %
Citric Acid, 30 %	1.3 %
REWODERM® LI S 80 (PEG-200 Hydrogenated Glyceryl Palmitate; PEG-7 Glyceryl Cocoate)	2.0 %
NaCl	~ 0.2 %
Preservatives	q.s.
<b>Preparation:</b> Mix the ingredients in the given order.	

<b>Shower Gel KA 05256</b>	
Sodium Laureth Sulfate (28 %)	34.0 %
Water	49.5 %
TEGO® Betain F (Cocamidopropyl Betaine)	9.0 %
REWOTERIC® AM C (Sodium Cocoamphoacetate)	4.0 %
ANTIL® 200 (PEG-200 Hydrogenated Glyceryl Palmitate; PEG-7 Glyceryl Cocoate)	1.0 %
TEGOSOFT® GMC 6	1.6 %
Sodium Chloride, Preservative	q.s.
<b>Preparation:</b> Mix the ingredients in the given order.	

<b>Humectant Facial Cleansing Gel UM 216/15</b>	
<b>Phase A</b>	
Sodium Laureth Sulfate, 28 %	4.30 %
Perfume	0.20 %
TEGOSOFT® GC (PEG-7 Glyceryl Cocoate)	0.50 %
Glycerin	30.00 %
LACTIL® (Sodium Lactate; Sodium PCA; Glycine; Fructose; Urea; Niacinamide; Inositol; Sodium Benzoate; Lactic Acid)	1.00 %
TEGO® Betain 810 (Capryl/Capramidopropyl Betaine)	3.20 %
<b>Phase B</b>	
Xanthan Gum (Keltrol F, CP Kelco)	0.10 %
TEGO® Carbomer 140 (Carbomer)	1.08 %
Water	54.92 %
<b>Phase C</b>	
NaOH, 10 %	4.70 %
Preservative	q.s.
<b>Preparation:</b> A: Mix the ingredients in the given order. B: Dissolve the TEGO® Carbomer and the Xanthan Gum in the water. Add phase B to phase A homogeneously and then adjust the pH value with NaOH.	

<b>Facial Cleansing Foam with Phytosphingosine SG 896/15</b>	
TEGOSOFT® PC 41 (Polyglyceryl-4-Caprate)	1.00 %
Phytosphingosine Hydrochloride (Phytosphingosine HCl)	0.05 %
Perfume	0.20 %
TEGOSOFT® GC	3.00 %
Glycerin	10.00 %
REWOTERIC® AM C (Sodium Cocoamphoacetate)	3.00 %
REWODERM® S 1333 (Disodium Ricinoleamido MEA- Sulfosuccintae)	5.00 %
Water	77.95 %
Preservatives	q.s.
<b>Preparation:</b> Solubilize the Phytosphingosine in the TEGOSOFT® PC 41, heat up to 80 °C and mix homogeneously. Cool down to 40 °C and add the other ingredients in the given order. Adjust the pH value to approximately 5.5. For application with "Pump foamer" (e.g. of Airspray).	

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