

## Technical Information

## TEGOSOFT® GC MB / TEGOSOFT® GMC 6 MB

## Hydrophilic emollients for shampoos, shower and bath preparations

## Intended use

TEGOSOFT® GC MB: Hydrophilic emollient & solubilizer  
 TEGOSOFT® GMC 6 MB: Hydrophilic emollient

## Benefits at a glance

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

## INCI (PCPC name)

TEGOSOFT® GC MB: PEG-7 Glyceryl Cocoate

TEGOSOFT® GMC 6 MB: PEG-6 Caprylic/Capric Glycerides

## Chemical and physical properties (not part of specifications)

|      |        |
|------|--------|
| Form | Liquid |
|------|--------|

## Solubility at 25 °C at 10% concentration

|                             | TEGOSOFT® GC MB            | TEGOSOFT® GMC 6 MB         |
|-----------------------------|----------------------------|----------------------------|
| Water                       | soluble (slight turbidity) | soluble                    |
| Cosmetic alcohol            | soluble                    | soluble                    |
| Paraffin oil (app. 20 mPas) | insoluble                  | insoluble                  |
| Isopropyl Myristate         | insoluble                  | insoluble                  |
| Sunflower seed oil          | dispersible                | soluble (slight turbidity) |
| Glycerol                    | insoluble                  | dispersible                |

TEGOSOFT® GC MB fulfils the requirements of Pharmacopoe Européenne.

## Properties

TEGOSOFT® GC MB and TEGOSOFT® GMC 6 MB

- 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 MB and TEGOSOFT® GMC 6 MB are used as a

- superfatting agent in shampoos, shower and bath preparations
- solubilizer in skin cleansing preparations, bath oils, facial cleansers and hair rinses
- TEGOSOFT® GMC 6 MB is used as make-up remover active in micellar waters

## Recommended user concentration

0.5 – 7% TEGOSOFT® GC MB resp.  
 TEGOSOFT® GMC 6 MB

## Storage

Store TEGOSOFT® GC MB and TEGOSOFT® GMC 6 MB in sealed containers at max. 30°C and protect from humidity. Turbidity occurring at low temperature does not affect the quality and is reversible and can be removed by warming the product to approx. 30–40°C.

## Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport of chemicals
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicological and ecotoxicological effects

is given in our safety data sheets.

## Guideline formulations

If you are interested in guideline formulations please visit our homepage <https://personal-care.evonik.com>.

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## Product Specification

**Material** TEGOSOFT GC MB  
**Spec. Code** K00 STANDARD

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| Inspection Characteristic | Method     | Limit       | Unit     | Z |
|---------------------------|------------|-------------|----------|---|
| Dioxane                   | GM_0616_01 | < = 5       | ppm      | X |
| Ethylenoxide              | GM_0616_01 | < = 1       | ppm      | X |
| Colour to Hazen           | GM_0140_01 | < = 100.0   | Hazen    | X |
| Hydroxyl value            | GM_0020_01 | 175.0-195.0 | mg KOH/g | X |
| Iodine value              | GM_0050_01 | < = 5.00    | g I/100g | X |
| Acid Value                | GM_0010_01 | < = 5.00    | mg KOH/g | X |
| Saponification Value      | GM_0030_01 | 90.0-105.0  | mg KOH/g | X |

Report on inspection certificate: X = specific/actual value, C = unspecific value/conformity, T = not reported

This product contributes to the production of certified sustainable palm oil according to the rules set out by RSPO Supply Chain Mass Balance (MB).  
 RSPO Certification Number: RSPO-V-14-13553.

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The Standard Test Methods can be obtained from specialized publishers. Evonik's test methods are available on request.