

TEGO® Wipe Lux

Innovative EO free Concentrate for Cosmetic Wet Wipes

- Formulation of low viscous O/W impregnating liquids with a rich and caring skin feel
- Contains natural Gossypium Herbaceum (Cotton) Seed Oil
- Recommended dose of use: 3 – 8 %

Personal Care

INCI Name (CTFA name)

Ethylhexyl Stearate; Sorbitan Laurate; Phenoxyethanol;
Gossypium Herbaceum (Cotton) Seed Oil; Polyglyceryl-4
Laurate; Dilauryl Citrate

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

Form	Liquid
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Properties

- TEGO® Wipe Lux can be used for the preparation of O/W impregnating liquids for cosmetic wet wipes.
- TEGO® Wipe Lux is a unique composition of EO-free emulsifiers, caring cosmetic emollients and phenoxyethanol.
- The combination of a medium viscous cosmetic oil with good spreading properties and natural Gossypium Herbaceum (Cotton) Seed Oil results in impregnating liquids which provide a rich and soft skin feel.
- The recommended usage concentration of TEGO® Wipe Lux is 3.0 – 8.0 %.
- TEGO® Wipe Lux is a liquid concentrate and easy-to-process at room temperature. By dilution with water finely dispersed, low viscous O/W lotions ready for use are obtained.
- Impregnating liquids made from TEGO® Wipe Lux have a very fine degree of dispersion which leads to good long-term stability.
- Formulations based on TEGO® Wipe Lux allow the addition of various water-soluble and oil-soluble actives.
- Active ingredients such as panthenol, allantoin, TEGO® Cosmo C 100 (Creatine) and Skinmimics® are well tolerated in the final impregnating liquid.
- Rheological additives such as TEGO® Carbomer types can be added to adjust low viscosity lotions.
- The optimum formulation pH of emulsions based on TEGO® Wipe Lux is 5.5 – 7.5.
- The impregnating lotions have a wide heat and cold stability range, typically they are stable from 5 °C up to +40 °C.
- O/W lotions based on TEGO® Wipe Lux are also suitable for the formulation of sprayable emulsions.

Preparation

It is recommended to use demineralised water for the processing.

The recommended usage level of TEGO® Wipe Lux is 5.0 %.

The manufacturing of impregnating liquids for cosmetic lotion wipes is done with a simple stirring equipment e.g. magnet stirrer (no homogenizer needed) at room temperature.

TEGO® Wipe Lux is charged into the vessel first and demineralised water is added with stirring.

When TEGO® Wipe Lux is diluted with water, a transparent or almost translucent microemulsion-like phase will be passed at 30 – 70 % water content. Further dilution with water will result in thin-like-water O/W emulsions.

Formulations based on TEGO® Wipe Lux allow the addition of various water-soluble substances (e. g. glycerin) or of rheological additives such as TEGO® Carbomers or Xanthan Gum to adjust the viscosity. Also the addition of various oils and oil-soluble substances can be tolerated by the formulations.

It is recommended to add water-soluble ingredients to the water phase and to mix oil-soluble ingredients with TEGO® Wipe Lux.

Due to the already included amount of phenoxyethanol in TEGO® Wipe Lux additional preservation of the resulting impregnating liquid may not be necessary. If additional preservation is necessary suitable preservative systems could be 0.2 – 0.3 % Phenonip XB, 0.3 – 0.4 % Euxyl PE 9010, 0.2 % Nipaguard BPX or a mixture 0.1 % Phenoxyethanol/0.1 % Euxyl K 220 depending on the amount of TEGO® Wipe Lux.

Supplementary preservatives should be added after the emulsion is formed.

Addition of perfume is recommended to be done after the emulsion is formed.

Inverse production (adding TEGO® Wipe Lux to the water phase) in general is possible. Both processes result in a spontaneous formation of low viscous O/W nanoemulsions with a very fine particle size.

Application

TEGO® Wipe Lux is especially suitable for

- Cosmetic Wet Wipes
 - Face and Body Care
 - Baby and Kids Care
 - Make-up Remover
 - Refreshing Towels
- O/W Sprays and Lotions

Recommended usage concentration

3.0 – 8.0 % TEGO® Wipe Lux

Packaging

200 kg container

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.

Storage

Please store TEGO® Wipe Lux between 10 °C and 40 °C.

Guideline Formulations

Note:

For the formulations demineralised water is recommended. Tap water may have a negative influence on the formation and stability of the emulsion.

Examples for Impregnating Liquids

Impregnating Liquid to improve Evenness of Skin Tone WR 16/06–125a	
Phase A	
Water	93.0 %
Glycerin	1.5 %
Phase B	
TEGO® Wipe Lux	5.0 %
Phase C	
EUXYL K 220	0.1 %
Phenoxyethanol	0.1 %
Phase D	
TEGO® Turmerone (Curcuma Longa (turmeric) root extract)	0.1 %
Perfume	0.2 %

Processing:

1. Charge the vessel with phase A.
2. Add phase B to phase A with simple stirring.
3. Add phase C to phase A/B while stirring.
4. Add ingredients of phase D in the given order and stir well.

O/W Facial Wipe for Mature Skin	
WR 16/06-119b	
Phase A	
TEGO® Wipe Lux	5.0 %
Phase B	
Water, demineralised	92.0 %
Glycerin	1.5 %
Phase C	
Euxyl PE 9010	0.3 %
Phase D	
Skinmimics® (Cetearth-25; Glycerin; Cetyl Alcohol; Behenic Acid; Cholesterol; Ceramide NP; Ceramide NS; Ceramide EOS ; Ceramide EOP; Ceramide AP; Caprooyl Phytosphingosine; Caprooyl Sphingosine)	1.0 %
Perfume	0.2 %

Processing:

1. Charge the vessel with phase A and add phase B with simple stirring.
2. Add phase C to phase A/B while stirring.
3. Add ingredients of phase D in the given order and stir well.

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