

TEGOSOFT® PC 41

Hydrophilic emollient

Intended use

Emulsifier

Benefits at a glance

- excellent solubilizing properties
- PEG-free
- based on polyglycerol
- positive influence on skin structure

INCI (PCPC name)

Polyglyceryl-4 Caprate

Chemical and physical properties (not part of specifications)

Form	viscous liquid
Appearance	colorless to yellow; clear to slightly turbid
HLB value	approx. 14
Solidification point	app. -8 °C

Solubility (10%):

Water	soluble
Ethanol	soluble
1,2 Propandiol	soluble
Ester oils	soluble
Paraffin oil	insoluble
Isopropyl myristat	insoluble

Vegetable oil	insoluble
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Properties

TEGOSOFT® PC 41 is a PEG-free surfactant.

It has excellent solubilizing properties and is non-irritant on skin.

TEGOSOFT® PC 41 is based on polyglycerol. It is nitrogen-free and therefore does not contribute to nitrosamine formation.

Application

TEGOSOFT® PC 41 is used as PEG-free re-fatting agents especially in:

- body washes
- liquid soaps
- bath oils

TEGOSOFT® PC 41 is used as emulsifier for self-emulsifying oil formulations, such as oil bath concentrates, which will spontaneously emulsify when added to water.

Packaging

400 kg pallet (16 x 25 kg hobbock)

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 case of accidents and fires
- toxicity and ecological effects

is given in our material safety data sheets.

Guideline formulations

Shower Gel, PEG-free UM 289/9/2	
TEGOSOFT® PC 41	2.00%
TEGIN® O V (Glyceryl Oleate)	0.50%
Ammonium Lauryl Sulfate (30%)	26.00%
Perfume	0.50%
Water	56.00%
LACTIL® (Sodium Lactate; Sodium PCA; Glycine; Fructose; Urea; Niacinamide; Inositol; Sodium Benzoate; Lactic Acid)	1.00%
TEGO® Betain F 50 (Cocamidopropyl Betaine)	14.00%
Preparation: Blend TEGOSOFT® PC 41 and TEGIN® O and heat it up until it is clear. Then add the other ingredients in the given order.	

Oil bath, PEG-free UM 289/12	
TEGOSOFT® PC 41	34.00%
Rosemary oil	30.00%
Water	36.00%
Preparation: Solubilize the Rosemary oil in the TEGOSOFT® PC 41. Then add the water slowly.	

PEG-free Wet Wipe solution base SG 870/6	
TEGOSOFT® PC 41	2.00%
TEGIN® M (Isopropyl Myristate)0000000000000000	0.20%
Phenoxyethanol; Methylparaben; Ethylparaben; Butylparaben; Propylparaben; Isobutylparaben (Phenonip)	0.60%
Perfume	0.10%
Propylene Glycol	3.00%
Water	93.85%
Cetrimonium Bromide, 40%	0.25%
Preparation: Blend ingredients in the given order.	

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