

## TEGOSOFT® HP

Cosmetic ester for dry skin application

- Substitute for mineral oil
- Low occlusivity
- Solvency for lipophilic active ingredients and UV filters

Personal Care

## INCI Name (CTFA Name)

Isocetyl Palmitate

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

Form	liquid
Colour	colourless to slightly yellow

### Further product information (not part of specifications)

Density (g/cm <sup>3</sup> )	approx. 0.85
Viscosity at 25 °C according to Höppler (mPas)	approx. 22
Surface tension at 25 °C according to ring method (mN/m)	approx. 30
Spreadability	low spreading
Polarity	medium polarity
Pour point following DIN ISO 3016 (°C)	approx. 0

## Properties

- Highly caring ester to soften dry skin
- Highly viscous (22 mPas), comparable to Paraffinum Perliquidum (25 mPas) and Caprylic/Capric Triglyceride (TEGOSOFT® CT, 24 mPas)
- Low spreading, similar to Caprylic/Capric Triglyceride (TEGOSOFT® CT)
- Medium polar, comparable to Ethylhexyl Stearate (TEGOSOFT® OS) or Cetearyl Ethylhexanoate (TEGOSOFT® liquid)
- Suitable as substitute for mineral oil (Paraffinum Perliquidum) due to its similar viscosity.

The advantage of TEGOSOFT® HP when compared to Paraffinum Perliquidum is its lower occlusivity and greater ability to solve lipophilic active ingredients.

In TEGOSOFT® HP e. g. up to 7 % of the UV-A-filter benzophenone-3 can be solved, whereas in Paraffinum Perliquidum only max. 2 % is soluble.

## Application

TEGOSOFT® HP is especially suitable for dry skin care products

- skin care creams
- skin care lotions
- body oils

## Packaging

720 kg pallet (4 x 180 kg)

## 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>W/O Handcream F 51/96</b>	
<b>Phase A</b>	
ISOLAN® PDI	3.0 %
TEGOSOFT® liquid	9.5 %
TEGOSOFT® HP	9.5 %
Beeswax	0.6 %
Hydrogenated Castor Oil	0.4 %
<b>Phase B</b>	
Glycerin	3.0 %
Magnesium Sulfate Heptahydrate	1.0 %
Water	73.0 %
Preservative, Perfume	q.s.
<b>Preparation:</b>	
1. Charge with phase A and heat to approx. 80 °C	
2. Add phase B (80 °C or room temperature) slowly with stirring	
3. Homogenise for a short time	
4. Cool with gentle stirring and homogenise again below 30 °C	

<b>O/W Cream with Cyclomethicone F 6/98</b>	
<b>Phase A</b>	
TEGO® Care 450	3.0 %
TEGIN® M	2.1 %
TEGO® Alkanol 18	0.9 %
TEGOSOFT® HP	7.0 %
TEGOSOFT® DO	7.0 %
Cyclomethicone	5.0 %
<b>Phase B</b>	
Water	75.0 %
Preservative, Perfume	q.s.
<b>Preparation:</b>	
1. Charge with phase B and heat to approx. 70 °C*	
2. Heat phase A to approx. 70 °C and add to phase B with stirring	
3. Homogenise	
4. Cool with gentle stirring	
*Important information: If it is charged with phase A, phase B must be added to phase A <b>without stirring</b> .	

<b>O/W Lotion UP 10/99/1</b>	
<b>Phase A</b>	
TEGO® Care 215	2.5 %
TEGO® Alkanol 18	1.5 %
TEGOSOFT® HP	4.0 %
TEGOSOFT® MM	1.0 %
TEGOSOFT® OS	5.2 %
ABIL® 350	0.5 %
<b>Phase B</b>	
Glycerin	3.0 %
Water	80.8 %
<b>Phase C</b>	
TEGO® Carbomer 141	0.2 %
TEGOSOFT® OS	0.8 %
<b>Phase D</b>	
Sodium Hydroxide 10 %	0.5 %
Preservative, Perfume	q.s.
<b>Preparation:</b>	
1. Charge with phase B and heat to approx. 80 °C*	
2. Heat phase A to approx. 80 °C and add to phase B with stirring	
3. Homogenise	
4. Cool with gentle stirring to approx. 60 °C and add phase C	
5. Homogenise	
6. Cool with gentle stirring and add phase D below 40 °C	
*Important: If it is charged with phase A, phase B must be added to phase A <b>without stirring</b> .	

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