

## TEGOSOFT® DC

Natural based emollient with medium to light skin feel

- Fully based on renewable sources
- Produced by the unique sustainable EVONIK enzymatic process
- COSMOS and NATRUE certified
- Not bleached
- Low peroxide value
- Especially suitable for sunscreen emulsions

Personal Care

## INCI Name (PCPC Name)

Decyl Cocoate

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

Form	liquid
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### 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. 9
Surface tension at 25 °C according to ring method (mN/m)	approx. 29
Spreadability	high spreading
Polarity	low polar
Pour point following DIN ISO 3016 (°C)	approx. 16

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### Maximum solubility of UV filters in TEGOSOFT® DC [%]

Benzophenone-3	8
Ethylhexyl Triazone	4
Butyl Methoxy-dibenzoylmethane	7

## Properties

- Medium to light oil with high spreadability
- Low polarity
- Fully based on renewable sources

## Application

TEGOSOFT® DC is especially suitable for

- Skin care creams, lotions, oils
- Sunscreen formulations

## Packaging

720 kg pallet (4 x 180 kg drum)

## Storage

Below 16 °C TEGOSOFT® DC starts to solidify. Heating up to 30 – 40 °C will result in a liquid product. This does not affect the product performance.

## 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.

## Guideline Formulations

O/W After Sun Spray Ma 38/02-1	
<b>Phase A</b>	
TEGOSOFT® DC	4.0%
TEGOSOFT® CT (Caprylic/Capric Triglyceride)	5.0%
TEGOSOFT® OP (Ethylhexyl Palmitate)	2.0%
Prunus Amygdalus Dulcis (Sweet Almond) Oil	1.0%
Tocopheryl Acetate	0.4%
Tocopherol	0.1%
Retinyl Palmitate	0.1%
<b>Phase B</b>	
TEGO® Care CG 90 (Cetearyl Glucoside)	0.5%
GluCare® S (Sodium Carboymethyl Beta-Glucan)	0.1%
Potassium Stearate	0.5%
Panthenol	1.0%
Glycerin	2.0%
Water	82.3%
<b>Phase C</b>	
TEGO® Carbomer 141 (Carbomer)	0.1%
TEGO® Carbomer 341 ER (Acrylates/C10-30 Alkyl Acrylate Crosspolymer)	0.1%
Mineral Oil (30 mPas)	0.8%
<b>Phase Z</b>	
Preservative, perfume	q.s.
<b>Preparation:</b>	
<ol style="list-style-type: none"> <li>Heat phase A and B separately to approx. 80 °C.</li> <li>Add phase A to phase B with stirring.<sup>1)</sup></li> <li>Homogenize.</li> <li>Cool with gentle stirring to approx. 60 °C and add phase C.</li> <li>Homogenize for a short time.</li> <li>Cool gentle with stirring below 30 °C.</li> </ol>	
<sup>1)</sup> Important information: If phase A has to be charged into the vessel first, phase B must be added <b>without stirring</b> .	

Velvety Day Care Softcream O/W SPF 10 UVA CL 28/08-1	
<b>Phase A</b>	
ABIL® Care XL 80 (Bis-PEG/PPG-20/5PEG/PPG-20/5 Dimethicone; Methoxy PEG/PPG-25/4 Dimethicone; Caprylic/Capric Triglyceride)	2.50%
TEGO® Alkanol 1618 (Cetearyl Alcohol)	3.00%
TEGIN® M Pellets (Glyceryl Stearate)	3.00%
TEGOSOFT® DC	4.0%
TEGOSOFT® CT (Caprylic/Capric Triglyceride)	5.0%
TEGOSOFT® OP (Ethylhexyl Palmitate)	2.0%
Prunus Amygdalus Dulcis (Sweet Almond) Oil	1.0%
Tocopheryl Acetate	0.4%
Tocopherol	0.1%
Retinyl Palmitate	0.1%
<b>Phase B</b>	
TEGO® Care CG 90 (Cetearyl Glucoside)	0.5%
GluCare® S (Sodium Carboymethyl Beta-Glucan)	0.1%
Potassium Stearate	0.5%
Panthenol	1.0%
Glycerin	2.0%
Water	82.3%
<b>Phase C</b>	
TEGO® Carbomer 141 (Carbomer)	0.1%
TEGO® Carbomer 341 ER (Acrylates/C10-30 Alkyl Acrylate Crosspolymer)	0.1%
Mineral Oil (30 mPas)	0.8%
<b>Phase Z</b>	
Preservative, perfume	q.s.
<b>Preparation:</b>	
<ol style="list-style-type: none"> <li>Heat phase A and B separately to approx. 80 °C.</li> <li>Add phase A to phase B with stirring.<sup>1)</sup></li> <li>Homogenize.</li> <li>Cool with gentle stirring to approx. 60 °C and add phase C.</li> <li>Homogenize for a short time.</li> <li>Cool gentle with stirring below 30 °C.</li> </ol>	
<sup>1)</sup> Important information: If phase A has to be charged into the vessel first, phase B must be added <b>without stirring</b> .	

<b>Natural W/O Lotion H 4/09-3</b>	
<b>Phase A</b>	
ISOLAN® GPS (Polyglyceryl-4 Diisostearate/ Polyhydroxystearate/Sebacate)	3.00%
TEGOSOFT® CT (Caprylic/Capric Triglyceride)	6.25%
TEGOSOFT® DC	6.25%
TEGOSOFT® CR (Cetyl Ricinoleate)	1.00%
Simmondsia Chinensis (Jojoba) Seed Oil	5.00%
Hydrogenated Castor Oil	0.30%
Beeswax	0.20%
<b>Phase B</b>	
Water	3.00%
Glycerin	3.00%
Magnesium Sulfate Heptahydrate	1.50%
Panthenol	0.50%
Sodium Benzoate, Potassium Sorbate, Aqua (Euxyl K 712, Schuelke & Mayr)	0.50%
Xanthan Gum	0.10%
<b>Phase Z</b>	
Perfume	q.s.
<b>Preparation:</b>	
<ol style="list-style-type: none"> <li>1. Heat phase A to approx. 80 °C.</li> <li>2. Adjust the pH value of phase B to approx. 5.0 - 5.5. Add phase B (80 °C or room temperature) slowly while stirring.</li> <li>3. Homogenize for a short time.</li> <li>4. Cool with gentle stirring below 30 °C and homogenize again.</li> </ol>	

<b>Daily Regeneration Lotion for Mature Skin F 9/06-5</b>	
<b>Phase A</b>	
TEGO® Care LTP (Sorbitan Laurate; Polyglyceryl-4 Laurate; Dilauryl Citrate)	1.5%
TEGOSOFT® OP (Ethylhexyl Palmitate)	8.1%
TEGOSOFT® DC	3.5%
TEGOSOFT® CI (Cetearyl Isononanoate)	3.0%
TEGO® Carbomer 140 (Carbomer)	0.15%
TEGO® Carbomer 141 (Carbomer)	0.15%
Xanthan Gum	0.1%
<b>Phase B</b>	
SKINMIMICS® (Cetareth-25; Glycerin; Cetyl Alcohol; Behenic Acid; Cholesterol; Ceramide EOP; Ceramide EOS; Ceramide NP; Ceramide NS; Ceramide AP; Caprooyl Phytosphingosine; Caprooyl Sphingosine)	5.0%
Glycerin	3.0%
Water	75.5%
<b>Phase C</b>	
Sodium Hydroxide (10% in water)	q.s.
<b>Phase Z</b>	
Preservative, perfume	q.s.
<b>Preparation:</b>	
<ol style="list-style-type: none"> <li>1. Mix ingredients of phase A.</li> <li>2. Combine phases A and B without stirring.</li> <li>3. Homogenize.</li> <li>4. Add phases C and Z and stir well.</li> </ol>	

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