

TEGOSOFT® DO

Lipophilic cosmetic oil, chemically similar to natural wax esters

- Universal emollient with refatting properties
- Especially suitable for dry skin applications
- Solvency for lipophilic active ingredients

Goldschmidt Personal Care

INCI Name (CTFA Name)

Decyl Oleate

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

Form	liquid
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**Further product information
(not part of specifications)**

Density (g/cm ³)	approx. 0.86
Viscosity at 25 °C according to Höppler (mPas)	approx. 14
Surface tension at 25 °C according to ring method (mN/m)	approx. 31
Spreadability	medium spreadability
Polarity	high polarity
Pour point following DIN ISO 3016 (°C)	-6

**Maximum solubility of UV filters
in TEGOSOFT® DO [%]**

Benzophenone-3	7
4-Methylbenzylidene Camphor	25
Butyl Methoxy-dibenzoylmethane	10

Properties

- High polarity
- Cosmetic ester with a composition similar to that of the natural skin lipids
- Emollient with refatting properties
- Solvency for lipophilic active ingredients

Application

TEGOSOFT® DO is especially suitable for

- skin care creams and lotions
- body oils

Packaging

720 kg pallet (4 x 180 kg drum)

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

W/O Cream F 25/96	
Phase A	
ISOLAN® GI 34 (Polyglyceryl-4 Isostearate)	1.5 %
ABIL® EM 90 (Cetyl PEG/PPG-10/1 Dimethicone)	1.0 %
Hydrogenated Castor Oil	0.8 %
Microcrystalline Wax	1.2 %
TEGOSOFT® OP (Ethylhexyl Palmitate)	11.0 %
TEGOSOFT® DO	10.5 %
Phase B	
Glycerin	3.0 %
Magnesiumsulfate Heptahydrate	0.6 %
Water	70.4 %
Preservative, Parfum	q.s.
Preparation:	
1. Heat phase A to 80 °C.	
2. Add phase B (80 °C or room temperature) slowly while stirring.	
3. Homogenise for a short time.	
4. Cool while gentle stirring below 30 °C.	
5. Homogenize again (particle size < 2 µm).	

O/W Cream F 23/97	
Phase A	
TEGO® Care 450 (Polyglyceryl-3 Methylglucose Distearate)	3.0 %
TEGIN® M Pellets (Glyceryl Stearate)	2.0 %
TEGO® Alkanol 18 (Stearyl Alcohol)	1.0 %
TEGOSOFT® OS (Ethylhexyl Stearate)	10.0 %
TEGOSOFT® DO	9.0 %
Phase B	
Glycerin	3.0 %
Water	72.0 %
Phase Z	
Preservative, Parfum	q.s.
Preparation:	
<ol style="list-style-type: none"> 1. Charge with phase B and heat to approx. 70 °C.¹⁾ 2. Heat phase A to approx. 70 °C and add to phase B with stirring. 3. Homogenise. 4. Cool with gentle stirring. 	
¹⁾ Important information: If phase A has to be charged into the vessel first, phase B must be added to phase A without stirring .	

O/W Baby Lotion Ma 5/00-2	
Phase A	
TEGOSOFT® DO	5.7 %
TEGOSOFT® OS (Ethylhexyl Stearate)	6.5 %
Stearic Acid	0.5 %
TEGIN® 4100 Pellets (Glyceryl Stearate)	0.5 %
Phase B	
TEGO® Care CG 90 (Cetearyl Glucoside)	1.0 %
Glycerin	3.0 %
Water	81.3 %
Panthenol	0.5 %
Phase C	
TEGO® Carbomer 141 (Carbomer)	0.2 %
TEGOSOFT® OS (Ethylhexyl Stearate)	0.8 %
Phase D	
Sodium Hydroxide (10% in water)	q.s.
Phase Z	
Preservative, Parfum	q.s.
Preparation:	
<ol style="list-style-type: none"> 1. Heat phase A and B separately to approx. 80 °C. 2. Add phase A to phase B with stirring.* 3. Homogenise. 4. Cool with gentle stirring to approx. 60 °C and add phase C. 5. Homogenise for a short time. 6. Cool with gentle stirring to approx. 40 °C and add phase D. 	
[*] Important information: If phase A has to be charged into the vessel first, phase B must be added to phase A without stirring .	

E 05/08

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