

## TEGOSOFT® TIS

Emollient with caring properties

- Suitable for a broad range of cosmetic products
- Stable against oxidation
- Alternative to natural oils

Personal Care

**INCI Name (CTFA Name)**

Triisostearin

**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. 0.91
Viscosity at 25 °C according to Höppler (mPas)	approx. 145
Surface tension at 25 °C according to ring method (mN/m)	approx. 31
Spreadability	low spreading
Polarity	high polar
Pour point following DIN ISO 3016 (°C)	< -30

**Properties**

TEGOSOFT® TIS is an emollient that was developed for cosmetic products with caring properties.

- Highly polar, highly viscous cosmetic oil
- Miscible with other cosmetic oils and fats
- Universal emollient with good skin care properties and pleasant afterfeel on the skin
- Stable against oxidation

**Application**

TEGOSOFT® TIS is especially suitable for

- Skin Care products
- Toiletries
- Decorative Cosmetics

**Recommended use level:**

2 – 5 % TEGOSOFT® TIS

**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

O/W Body Cream F 21/03-2	
<b>Phase A</b>	
TEGO® Care 450 (Polyglyceryl-3 Methylglucose Distearate )	3.0 %
TEGIN® M Pellets (Glyceryl Stearate)	2.0 %
TEGO® Alkanol 18 (Stearyl Alcohol)	1.0 %
TEGOSOFT® OP (Ethylhexyl Palmitate)	8.0 %
TEGOSOFT® DEC (Diethylhexyl Carbonate)	6.0 %
TEGOSOFT® TIS	2.0 %
Avocado (Persea Gratissima) Oil	2.0 %
Tocopheryl Acetate	1.0 %
<b>Phase B</b>	
Water	71.5 %
Glycerin	3.0 %
Panthenol	0.5 %
<b>Phase Z</b>	
Preservative, Parfum	q.s.
<b>Preparation:</b> <ol style="list-style-type: none"> <li>Heat phase A and B separately to 70 – 75 °C.</li> <li>Add phase A to phase B with stirring.<sup>1)</sup></li> <li>Homogenise.</li> <li>Cool with gentle stirring.</li> </ol> <p><sup>1)</sup> Important: If it is charged with phase A, phase B must be added to phase A <b>without stirring</b>.</p>	

O/W Facial Cream F 21/03-4	
<b>Phase A</b>	
TEGIN® 4100 Pellets (Glyceryl Stearate)	3.5 %
TEGO® Alkanol 18 (Stearyl Alcohol)	1.5 %
TEGOSOFT® liquid (Cetearyl Ethylhexanoate)	14.0 %
TEGOSOFT® DC (Decyl Cocoate)	6.0 %
TEGOSOFT® TIS	2.0 %
Tocopheryl Acetate	1.0 %
<b>Phase B</b>	
Water	66.5 %
Glycerin	3.0 %
TEGO® Care CG 90 (Cetearyl Glucoside)	1.5 %
<b>Phase C</b>	
TEGO® Carbomer 134 (Carbomer)	0.2 %
TEGOSOFT® liquid	0.8 %
<b>Phase D</b>	
Sodium Hydroxide (10% in water)	q.s.
<b>Phase Z</b>	
Preservative, Parfum	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>Homogenise.</li> <li>Cool with gentle stirring to approx. 60 °C and add phase C.</li> <li>Homogenise for a short time.</li> <li>Cool with gentle stirring and add phase D below 40 °C.</li> </ol> <p><sup>1)</sup> Important: If it is charged with phase A, phase B must be added to phase A <b>without stirring</b>.</p>	

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