




## **SOFTISAN® 645**

INCI: Bis-Diglyceryl Polyacyladipate-1

-  Emollient similar to lanolin oil
-  High water-absorption capacity
-  Hair conditioning and film forming

## SOFTISAN® 645

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### 1. Description:

SOFTISAN® 645 is a partial ester of diglycerin with natural fatty acids, isostearic acid, 12-hydroxystearic acid and adipic acid. SOFTISAN® 645 is a yellowish, high-viscosity fluid with a typically fatty odor.

### 2. Chemical and Physical Properties:

Tests	Value	Unit
Acid value	max. 3	mg KOH/g
Saponification value	260 – 285	mg KOH/g
Iodine value	max. 5	g I <sub>2</sub> /100 g
Hydroxyl value *	60 - 100	mg KOH/g

\* not included in certificate of analysis, limits guaranteed

### 3. Application:

Compared to natural lanolin oil, SOFTISAN® 645 is stable against air oxidation. It does not taste rancid and does not change its appearance during storage. With respect to its physical properties, its neutral odor and its high stability against rancidity makes it a highly recommended substitute for lanolin oil.

SOFTISAN® 645 is miscible with all fats and oils and with paraffins. It is soluble in diethyl ether and practically insoluble in water.

#### Cosmetic Functions:

SOFTISAN® 645 has a high water-absorption capacity and is therefore preferably used in W/O-formulations for creams and lotions. When stirred with warm water, it forms an emulsion.

SOFTISAN® 645 is especially suitable for use in skin protection, skin care formulations and baby creams. Its adhesive and aesthetic skin-feel properties are comparable to those of natural lanolin.

Thus SOFTISAN® 645 use is suggested for:

-  Color cosmetics
-  Lip care
-  Skin Care
-  Sun Care
-  Hair Care

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### 4. Formulation Guide



<b>Massage Oil</b>		<b>550</b>
<b>Phase A</b>		
<b>DYNACERIN® 660<sup>1</sup></b>	Oleyl Erucate	10,00
<b>MIGLYOL® 812 N<sup>1</sup></b>	Caprylic/Capric Triglyceride	30,00
<b>SOFTISAN® 645<sup>1</sup></b>	Bis-Diglyceryl Polyacyladipate-1	5,00
Soybean Oil	Glycine Soybean Oil	20,00
<b>CremerOIL Sunflower Oil<sup>1</sup></b>	Helianthus Annuus Seed Oil	19,50
Sweet Almond Oil	Prunus Amygdalus Dulcis Oil	10,00
Aloe Vera, oil soluble	Aloe Barbadensis	5,00
Tocopherol		0,50
Fragrance	Fragrance	q.s.



#### Procedure:

1. All ingredients are stirred until they are homogeneously at room temperature.

#### Supplier References:

<sup>1</sup>Cremer Care

 multitainer with 25 kg  
 drum with 190 kg

 Protect from light and moisture  
 Shelf life 2 years

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