

PERSONAL CARE

TECHNICAL DATA SHEET

SOFTISAN® 645

INCI: Bis-Diglyceryl Polyacyladipate-1



- HIGH WATER ABSORPTION CAPACITY
- CONDITIONING & FILM FORMING
- EXCELLENT SKIN COMPATIBILITY



IOI Oleo GmbH

DESCRIPTION

SOFTISAN® 645 is a multifunctional film-forming agent and emollient with high water-binding capacity and excellent adhesion to the skin, where it will form a strong film. Its physical properties make it an ideal substitute for lanolin oil. It is vegan, halal, available in RSPO MB certified quality and produced exclusively in Germany.

It is a partial ester of natural diglycerin with medium chain fatty acids, isostearic acid, 12hydroxystearic acid and adipic acid. SOFTISAN® 645 is a yellowish, high-viscosity fluid with a typical fatty odor. It does not contain any additives. Due to the selected raw materials, it is free of any pesticides or other impurities. SOFTISAN® 645 is stable against air oxidation and does not taste rancid. Due to its strong water-binding capacity, SOFTISAN® 645 can draw water during storage. This may lead to turbidity. However, this has no influence on the quality or performance of the product.

APPLICATION

SOFTISAN® 645 can be used in W/O and O/W formulations as well as in color cosmetics. The product is especially recommend for all formulations, in which film forming and conditioning properties are of a great interest.

⊠ Skin Care ⊠ Baby Care ⊠ Self-Tanning ☑ Body Care☑ Hair Care☑ Beard Care

☑ Sun Care□ Bath Care□ Deodorants

☑ Color Cosmetics☑ Wet Wipes☑ Intimate Hygiene

SOFTISAN® 645 is miscible with all fats, oils and paraffin.

FORMULATION HINTS

- Recommended concentration of SOFTISAN® 645: 1 30%
- Applicable for cold and hot processes
- Add SOFTISAN[®] 645 to the oil phase
- It forms an emulsion when stirred with warm water
- Recommended pH level: pH 4.5 7.0



FORMULATION GUIDE

LIQUID LIP GLOSS NO. 548

After having worn matt and overpainted lips in the last years, the trend is now back to naturally shiny lips. Our combination of SOFTISAN[®] 645 and SOFTIGEN[®]PURA is the perfect way to keep them shiny all day long. Together they provide a long-lasting base that still does not stick.

	Trade Name	INCI	%
PHASE A	SOFTISAN [®] 100	Hydrogenated Coco-Glycerides	4.0
	IMWITOR [®] 600	Polyglyceryl-3 Polyricinoleate	1.0
	SOFTISAN [®] 645	Bis-Diglyceryl Polyacyladipate-1	10.0
	SOFTIGEN®PURA	Olus Oil (EU)/ Vegetable Oil (US)	30.0
	Castor Oil	Castor Oil	28.0
	Rewopal PIB 1000	Polyisobutene	10.0
	Isofol [®] 20	Octyldodecanol	10.0
	Beeswax	Cera Alba	1.0
	Aerosil 200	Silica	2.0
PHASE B	Timiron [®] Starluster MP-115	MICA, CI 77891 (Titan Dioxide)	3.0
	Intenza Passionate Kiss	Synthetic Flourphlogopite (and) Titanium Dioxide (and) D&C Red 7 Calcium Lake	1.0

PREPARATION:

SUPPLIERS:

1. Mix and heat phase A to 80°C.

2. Add phase B under stirring and fill into packaging.

IOI Oleo GmbH: IMWITOR®, SOFTIGEN®, SOFTISAN®

Evonik: Rewopal, Aerosil Sasol: Isofol® Merck: Timiron® SunChemicals: Intenza



MASSAGE OIL NO. 550

A gentle massage after a hard day makes life much easier. With a great massage oil, which makes the skin soft to the touch and provides lasting care, the evening massage becomes a soothing ritual that you will not want to miss soon. The combination of SOFTISAN® 645 and WITARIX® MCT 60/40 provides a pleasant feeling both during and after the massage, with an extra long-lasting effect.

	Trade Name	INCI	%
PHASE A	IMWITOR® 375	Glyceryl Citrate/Lactate/Linoleate/Oleate	10.0
	WITARIX [®] MCT 60/40	Caprylic/Capric Triglyceride	30.0
	SOFTISAN [®] 645	Bis-Diglyceryl Polyacyladipate-1	5.0
	Soybean Oil	Glycine Soybean Oil	20.0
	Sunflower Oil	Helianthus Annuus (Sunflower) Seed Oil	19.5
	Sweet Almond Oil	Prunus Amygdalus Dulcis (Almond) Oil	mond) Oil 10.0
	Aloe Vera, oil soluble	Aloe Barbadensis	5.0
	Tocopherol	Tocopherol	0.5

PREPARATION:

SUPPLIER:

Prepare this formulation at room temperature.

IOI Oleo GmbH: IMWITOR®, SOFTISAN®, WITARIX®

1. Mix all ingredients in the given order until clear.

HANDLING AND SHELF LIFE

The shelf life for SOFTISAN[®] 645 is at least twenty-four months if the product is stored below 25°C in a dry place in original, tightly closed containers, protected from light and moisture.

PACKAGING UNITS

Multitainer with 25 kg, 600 kg on CP3 pallet Drum with 190 kg, 760 kg on CP3 pallet

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