



IOI OLEOCHEMICAL

PERSONAL CARE

TECHNICAL DATA SHEET

SOFTISAN® conditionHAIR

INCI: PCA Glyceryl Oleate



UNIVERSAL NATURAL CATIONIC HAIR & SKIN CONDITIONER

Natural multifunctional ingredient, multi-plant based, for multiple pampering benefits on hair and skin

DESCRIPTION

SOFTISAN® conditionHAIR is a natural based, vegan pure multifunctional ester in viscous liquid form, multi-plant based and produced exclusively in Germany.

Based on PCA and Glyceryl Oleate the molecule has **synergistic effects** in hair and skin care. At physiological pH (5.5) or lower, the molecule provides a positive charge and can bind to the negatively charged hair or skin. It acts as deposition aid for oils (via **coacervation**) in shampoos.

Due to the presence of pyrrolidone carboxylic acid (PCA), also part of the **natural moisturizing factor** (NMF), SOFTISAN® conditionHAIR can **moisturize** the skin and protect the skin barrier.

It is made of glyceryl monooleate esterified with PCA derived natural glutamic acid and has a **NOI** of **1.0** according to ISO 16128. SOFTISAN® conditionHAIR is a yellow viscous liquid with neutral odor. It has a **non-oxidisable** structure. It is readily biodegradable and non-toxic to algae.

APPLICATION

In hair care cleansing formulas, the squeaky feel left by the removal of dirt, sebum and pollutants often reveals damaged open cuticles. SOFTISAN® conditionHAIR **eases rinseability**, and simultaneously allows the **deposition of light oils** or silicones onto and along the whole hair – for an **easy combing** and styling, yet **weightless feel**.

SOFTISAN® conditionHAIR provides skin care formulas with a moisturizing feel, extended by a light conditioning film preventing skin water loss. This completes its characteristic **caring and pampering sensory** profile.

<input checked="" type="checkbox"/> Face Care	<input checked="" type="checkbox"/> Body Care	<input checked="" type="checkbox"/> Sun Care	<input checked="" type="checkbox"/> Color Cosmetics
<input checked="" type="checkbox"/> Baby Care	<input checked="" type="checkbox"/> Hair Care	<input checked="" type="checkbox"/> Bath Care	<input checked="" type="checkbox"/> Wet Wipes
<input type="checkbox"/> Self-Tanning	<input checked="" type="checkbox"/> Beard Care	<input checked="" type="checkbox"/> Deodorants	<input type="checkbox"/> Intimate Hygiene

SOFTISAN® conditionHAIR is miscible with all oils and fats but can lead to reversible turbidity (see chapter “formulation hints”).

FORMULATION HINTS

- Recommended concentration of **SOFTISAN® conditionHAIR**: 0.5 – 2%
 - Skin care: 0.5 – 2.0 % for skin hydration and decreased TEWL
 - Hair care: 0.5 – 1.0% for enhanced wet and dry combing
 - Boost conditioning performance: Combine with 0.5% oil
 - Anhydrous & color care: 1.0 – 2.0%
 - Clear formulas: Add a mild solubilizer or emulsifier (e.g. 0.5% IMWITOR® 375)
- Applicable for hot and cold processes
- Add SOFTISAN® conditionHAIR to the oil or surfactant phase
- Recommended pH level: pH 4.0 – 7.0
 - For best efficacy in rinse-off products: pH < 5.5 (cationic charge)
 - For good affinity to hair and skin due to hydrophobic interaction pH > 5.5



FORMULATION GUIDE

HAPPY HAIR! HAPPY EARTH! SOLID CONDITIONING BAR NO. 803

Waterless cosmetics? The ultimate go-green trend? When consumers buy cosmetics, they also buy the amount of water these products contain. Water is not an active ingredient; it is the carrier that unites all other raw materials. Choosing solid cosmetics as alternative demonstrates ecological consciousness. By reducing water in formulations, we gain a variety of benefits, such as less packaging and reduced product weight and sustainability. Good reasons for an ecologically committed consumer.

The benefits of our solid conditioning bar: Use it anywhere, experience a new product sensoriality, save water, the elixir for people and nature & contribute to environmental protection with a responsible attitude.

SOFTISAN® conditionHAIR leads to improved wet and dry combing.

	Trade Name	INCI	%
PHASE A	MIGLYOL® Coco 810	Coco-Caprylate/Caprate	10.0
	MIGLYOL® Gel T	Caprylic/Capric Triglyceride (and)	7.0
		Stearalkonium Bentonite (and)	
		Propylene Carbonate	
	IMWITOR® PG3 C10	Polyglyceryl-3 Caprate	3.0
	IMWITOR® 600	Polyglyceryl-3 Polyricinoleate	1.0
	SOFTISAN® conditionHAIR	PCA Glyceryl Oleate	2.0
	SOFTISAN® 142	Hydrogenated Coco-Glycerides	23.5
	Shea Butter	Butyrospermum Parkii (Shea) Butter	14.0
	Plantacare® 1200 UP	Lauryl Glucoside	9.0
	Nafol® 1618 HP	Cetearyl Alcohol	5.0
	Carnauba Wax	Copernicia Cerifera (Carnauba) Wax	6.0
PHASE B	Water demin.	Aqua	5.0
	Sodium Hydroxide 10%	Sodium Hydroxide	1.0
PHASE C	Tocopherol	Tocopherol	0.5
	Fragrance	Parfum (EU)/Fragrance (US)	2.0
	Color		2.0

PREPARATION:

1. Heat phase A to approx. 85°C and homogenize, cool down to 40°C under stirring.
2. Add phase B/C and homogenize. Fill the mass into molds and leave it untouched for 1 day, then put it in the freezer for another day.

SUPPLIERS:

IOI Oleo GmbH: IMWITOR®, MIGLYOL®, SOFTISAN®
 BASF: Plantacare®
 Sasol: Nafol®
 KahlWax: Myrica Fruit Wax



LIGHT²RICH TRANSFORMER LOTION NO. 812

This ultra-light and easily spreadable emulsion transforms into a rich lotion during application that gives you the care level you need. The technique of turning an O/W lotion into a W/O lotion is supported by the use of the W/O emulsifier IMWITOR® 600. SOFTISAN® conditionHAIR increases skin hydration and strengthens the skin barrier by lowering skin water loss. SOFTIGEN®PURA is working hand in hand with SOFTISAN® conditionHAIR by forming an occlusive film and providing a rich and luxurious skin feel, whereas MIGLYOL® T-C7 and MIGLYOL® 8810 provide the light feeling in the beginning.

	Trade Name	INCI	%
PHASE A	IMWITOR® 600	Polyglyceryl-3 Polyricinoleate	4.0
	SOFTIGEN®PURA	Olus Oil (EU)/ Vegetable Oil (US)	2.0
	MIGLYOL® T-C7	Triheptanoin	5.0
	MIGLYOL® 8810	Butylene Glycol Dicaprylate/Dicaprate	5.0
	SOFTISAN® conditionHAIR	PCA Glyceryl Oleate	0.3
	6607L Sunflower Seed Wax	Helianthus Annuus (Sunflower) Seed Cera (and) Ascorbyl Palmitate (and) Tocopherol	0.8
	Nafol® 1618H	Cetearyl Alcohol	2.5
PHASE B	Water demin.	Aqua	71.0
	Glycerin	Glycerin	4.0
	Keltrol® CG-SFT	Xanthan Gum	0.6
	Euxyl® PE 9010	Phenoxyethanol (and) Ethylhexylglycerin	1.0
PHASE C	Plantapon® LGC Sorb	Sodium Lauryl Glucose Carboxylate (and) Lauryl Glucoside	1.5
PHASE D	0798185 White Flair	Parfum (EU)/ Fragrance (US)	0.3

PREPARATION:

1. Heat phase A and B to approx. 80°C.
2. Mix phase B and C and add phase A to phases B/C. Homogenize (3 min @ 5.000 - 8.000 rpm).
3. Cool down with stirring.
4. Add phase D at 30°C.

SUPPLIERS:

IOI Oleo GmbH: IMWITOR®, MIGLYOL®, SOFTIGEN®, SOFTISAN®
 KahlWax: Sunflower Seed Wax
 Sasol: Nafol®
 CP Kelco: Keltrol®
 Schülke & Mayr: Euxyl®
 BASF: Plantapon®
 Bell: Parfum



HANDLING AND SHELF LIFE

The shelf life for SOFTISAN® conditionHAIR 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

Hobbock with 25 kg, 600 kg on CP3 or DB pallet

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Raw material approved by ECOCERT GREENLIFE, compliant with the COSMOS standard

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