



IOI OLEOCHEMICAL



IOI Oleo GmbH

personalcare@ioioleo.de

www.ioioleo.de

PERSONAL CARE

SOFTISAN® conditionHAIR

UNIVERSAL PLANT-BASED CATIONIC
HAIR & SKIN CONDITIONER

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

SOFTISAN® conditionHAIR is an
universal plant-based cationic
conditioner for hair and skin. This
multifunctional ingredient works in
two ways. It acts as deposition aid in
hair care applications to improve wet
combing and offers moisturization
and protection for skin and scalp. All
of this, with a pampering caring feel.

ABOUT TECHNOLOGIES - Leaflet V1.2



ABOUT TECHNOLOGIES

This multi-plant-based ester is a pure multifunctional in viscous liquid form. It can be introduced into the oil or surfactant phase, allowing flexible processes for various concepts. SOFTISAN® conditionHAIR is one molecule, based on PCA and Glyceryl Oleate, leading to synergistic effects in hair and skin care (on right).

The ingredient can be used from pH 4.0 - 7.0, depending on application. At pH 5.5 or lower, this ingredient is positively charged and can therefore easily bind to the negatively charged hair or skin. Due to its chemical structure, it acts as deposition aid for oils via coacervation in shampoos (see on the right). Hair care products using SOFTISAN® conditionHAIR will profit from enhanced wet combing and rinseability.

In skin care formulations, it moisturizes the skin and forms a perceivable light film. This is due to the presence of Pyrrolidone Carboxylic Acid (PCA), which is also part of the Natural Moisturizing Factor (NMF) of the skin.

SENSORIAL TECHNOLOGIES

SOFTISAN® conditionHAIR is a universal hair/skin ingredient that not only works great, but also feels great.

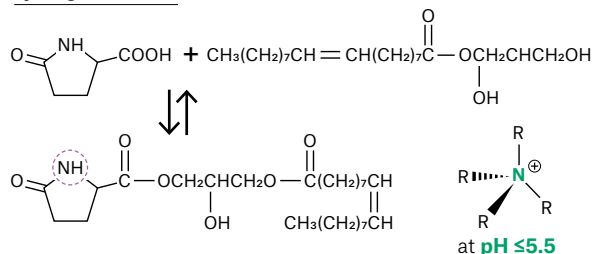
In hair care cleansing formulas, the squeaky feel left by the removal of dirt, sebum and pollutants often reveals damaged open cuticles. SOFTISAN® conditionHAIR eases rinseability, and simultaneously allows the deposition of light oils or silicones onto and along the whole hair – for an easy combing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

SOFTISAN® conditionHAIR provides skin care formulas with a moisturizing feel, extended by a light film that improves the emollient effect and skin softness. This completes its characteristic caring and pampering sensory profile.

EMOTIONAL TECHNOLOGIES

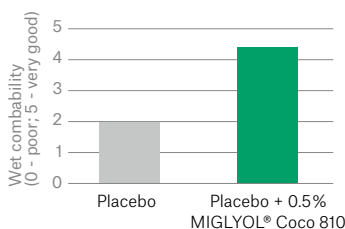
- Natural Origin Index 1.0 (according to ISO 16128)
- Vegan compatible
- Renewable sourcing (Sunflower, Rapeseed, Beet, Wheat)

SOFTISAN® conditionHAIR is 1 molecule and profits from synergistic effects



- Cationic charge & lipophilic properties in one

Film-forming and binding forces - Wet combing



SOFTISAN® conditionHAIR forms a **strong film** and acts as **anchor for hydrophobic materials** like oils via coacervation to enhance performance

Self-assessment with five volunteers; shampoo contained 0.7% SOFTISAN® conditionHAIR and 0.0/0.5% MIGLYOL® Coco 810 (Coco-Caprylate/Caprate) as conditioning booster

SOFTISAN® conditionHAIR boosts naturality & performance in skin, hair and color care

TECHNICAL POSSIBILITIES

- Skin, scalp & hair conditioner with cationic charge (@pH<5.5) & high substantivity
- Positive influence on skin moisturization
- Film former & deposition aid for lipophilic caring ingredients
- Fully plant-based alternative for synthetic quaternary ammonium compounds
- Improvement of wet and dry hair combability

FLEXIBLE PROCESS

- Suits both Hot & Cold processes
- Can be added to oil phase, or post-emulsification
- Suits O/W, W/O, surfactant, anhydrous and alcoholic formulas

APPLICATIONS

- Rinse-off & leave-on, conditioning hair and scalp care, moisturizing skin and color care



SOFTISAN® conditionHAIR

UNIVERSAL PLANT-BASED CATIONIC
HAIR & SKIN CONDITIONER

INCI

PCA Glyceryl Oleate

APPEARANCE & COLOR

Yellow-brown viscous liquid

DESCRIPTION

Ester of glycerol monooleate and PCA from glutamic acid

RECOMMENDED CONCENTRATION

0.5 - 2.0% and above, according to application

BENEFITS FOR...

...FORMULATOR

- Multifunctional product
- Applicable for rinse-off & leave on hair, scalp, skin and color care
- plant-based cationic (< pH 5.5)

...PRODUCTION

- Easy to handle honey-like ingredient
- Hot/cold process
- Can be added at any stage
- High compatibility
- Requires low dosage

...BRAND

- Plant-based alternative to conventional skin & hair conditioners
- Multifunctional ingredients for multiapplications concepts
- Supports moisturizing claims

...CONSUMER

- Moisturizes skin
- Detangles hair and eases combing
- Vegan compatible



Natural
according to
ISO 16128
NOI 1.0

