



IOI OLEOCHEMICAL



IOI Oleo GmbH

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PERSONAL CARE

SOFTISAN® 649

THE VEGAN, ALL-PURPOSE
FILM-PROTECTOR

The water-resistant/water-binding vegan film-former for safe formulas offering caring smooth sensoriality, and providing barrier protecting effect

SOFTISAN® 649 is a vegan, all-purpose product offering a highly substantive protecting film for an improved skin barrier. This is due to its unique chemical structure providing both water-resistance and water-binding capacities. The safe and widely used ingredient provides a smooth and caring sensoriality for high performance cosmetics.

ABOUT TECHNOLOGIES - Leaflet V1.0



ABOUT TECHNOLOGIES

This vegan ester is a pure multifunctional in pasty form. It can be introduced (melted or pasty) into the oil phase before or after homogenization allowing flexible processes for various formulas.

The chemically inert product shows light odor and color characteristics. Its complex and unique chemical 3D-structure traps water inside. It makes it both water-resistant and water-binding, resulting in a strong and highly substantive protecting film. This all-purpose ingredient can be used for any kind of high-performance products like skin barrier protecting formulas, long-lasting color care, effective hair care or water-resistant sun or baby care. SOFTISAN® 649 is also able to thicken oil systems and works in a wide pH range from 4.0 - 7.0.

SENSORIAL TECHNOLOGIES

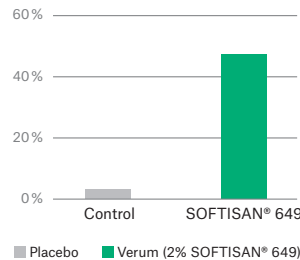
SOFTISAN® 649 is an ideal protecting shield for your skin. This multifaceted ingredient is the perfect fit for all kind of applications: be it as a film-former in color care, protective baby creams or sun care products, as a skin barrier protecting agent to reduce skin water loss or as formula water-resistance enhancer.

It underlines the caring properties of your emulsion by enhancing the whiteness of the formula and providing a smooth skin feel upporting your signature touch.

EMOTIONAL TECHNOLOGIES

This versatile film-former has been already trusted a multiple times not only for its various benefits, but also for its vegan nature and safe toxicological profile. It is non-irritating to skin, non-toxic to nature and inherently biodegradable. Based on 86% renewable sources and only offered in RSPO MB certified quality, SOFTISAN® 649 is a trustful partner for both modern but also effective formulas for any kind of application or marketing concept.

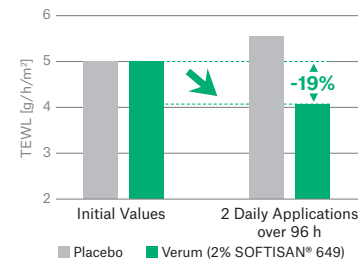
Color after Wash-Off



SOFTISAN® 649

→ Improves & strengthens the skin barrier

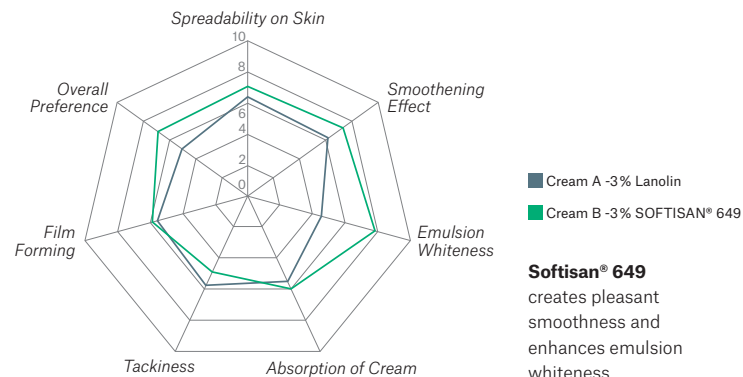
TEWL Readings SOFTISAN® 649 vs. Placebo



SOFTISAN® 649

→ Forms a strong film on the skin
→ Increases water-resistance due to its film-forming properties

Sensory Profile SOFTISAN® 649 vs. Lanolin



Softisan® 649 creates pleasant smoothness and enhances emulsion whiteness.

Benefits in every formula

TECHNICAL POSSIBILITIES

- Strong film-former, perfect fit for color & sun care formula
- High water binding capacity
- Improved skin barrier for enhanced skin integrity
- Safe profile ingredient, ideal for all skin types

FLEXIBLE PROCESS

- Compatible with Hot & Cold
- Can be added to the oil phase or post-emulsification
- For O/W & W/O, but also surfactant & anhydrous formulas

APPLICATIONS

- Conditioning for skin & hair, long-lasting make-up & sun care, delicate skin protection



SOFTISAN® 649

THE VEGAN, ALL-PURPOSE FILM-PROTECTOR

INCI

Bis-Diglyceryl Polyacyladipate-2

APPEARANCE, COLOR & ODOR

Slight yellow viscous paste with characteristic odor

DESCRIPTION

Partial ester of natural diglycerin with medium chain fatty acids, isostearic acid, stearic acid, 12-hydroxystearic acid and adipic acid

RECOMMENDED CONCENTRATION

0.5 to 30.0% and above, according to application

BENEFITS FOR...

...FORMULATOR

- Low odor/color
- High compatibility
- Versatile applications (skin/hair/sun/color)
- Enhances water resistance

...PRODUCTION

- Safe profile raw material
- Applicable for both hot/cold processes
- Requires low dosage

...BRAND

- Allows vegan formulas
- Safe & known INCI
- Provides care skin-feel to delicate skins

...CONSUMER

- Provides comfortable caring film
- Allows long-lasting effect
- Vegan ingredient, with sustainable sourcing

