



DEFENSIL®

Normalises Sensitive Skin

The majority of people rate their skin as sensitive or very sensitive. Many environmental factors irritate the skin. Variations in temperature, wind, physical and chemical effects and sunlight also contribute to irritation. The skin is exposed to various stress factors and is hardly ever at rest these days. Although the skin is generally very durable, it becomes increasingly sensitised or even damaged by all of the irritants.

The active ingredient DEFENSIL® has set new standards in its unique and effective care of sensitive skin.

SWISS EXPERTISE 

RAHN
Your partner for excellence



SCIENTIFICALLY PROVEN EFFECTS

- Prevents cutaneous hyper-reactivity (*in-vivo* study)
- Imparts immediate soothing (*in-vivo* study)
- Effectively regenerates the skin barrier (*in-vivo* study)
- Protects epidermal stem cells (*in-vitro* study)

ACTIVE INGREDIENTS

Cardiospermum halicacabum



Cardiospermum is a climbing plant which originally stems from the tropics. Its name came about because of a white heart-shaped mark on the seed. In pharmacy it is well known to be effective against skin disturbance. This is attributed to the high proportions of phytosterols and triterpene, whose anti-inflammatory properties are especially interesting.

Echium Oil



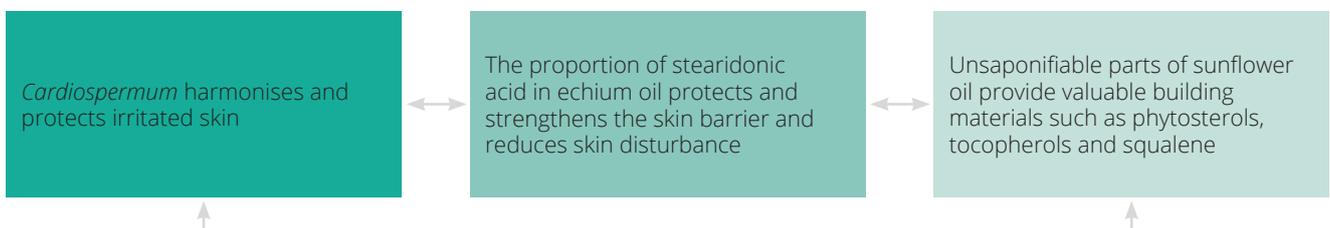
Echium oil is very rich in stearidonic acid, an essential omega-3 fatty acid which is known for its anti-inflammatory property. The stearidonic acid effectively inhibits the 5-Lipoxygenase enzyme and thus retards the inflammatory mechanism. The equally high proportion of 7%–12% gamma-linoleic acid is also responsible for the optimum protection of the skin barrier, as unsaturated fatty acids regenerate the intercellular cement of the epidermis.

Sunflower Unsaponifiables



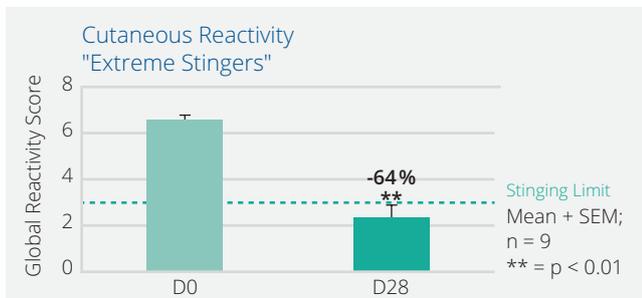
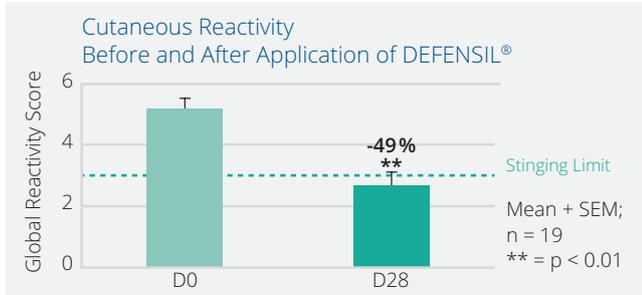
Due to their interesting composition, which is characterised by a high proportion of sterols, the unsaponifiable elements of the sunflower oil have a particularly soothing effect on the skin. The notable presence of natural vitamin E and squalene in the unsaponifiable element of the sunflower oil are of equal importance in the regeneration and care of the skin.

MODE OF ACTION



DEFENSIL® PREVENTS CUTANEOUS HYPER-REACTIVITY (*in-vivo* study)

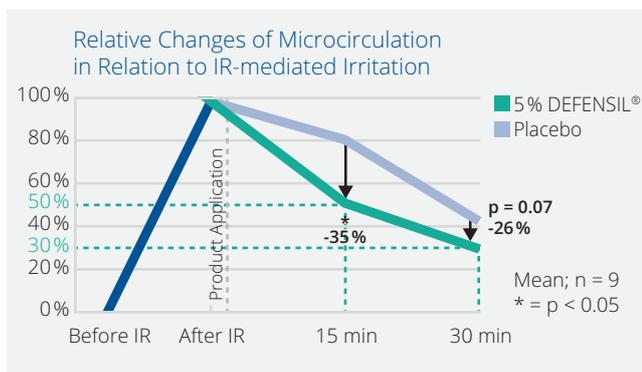
Method: The stinging test demonstrates the skin's sensitivity to lactic acid. If sensitive skin is prepared for this test for one month with a cream gel containing 5% DEFENSIL®, the skin's sensitivity to irritation is clearly reduced (19 test persons).



Result: DEFENSIL® reduces the skin's responsiveness to external irritation. Highly sensitive persons benefit even more from the soothing effect of DEFENSIL®.

DEFENSIL® IMPARTS IMMEDIATE SOOTHING (*in-vivo* study)

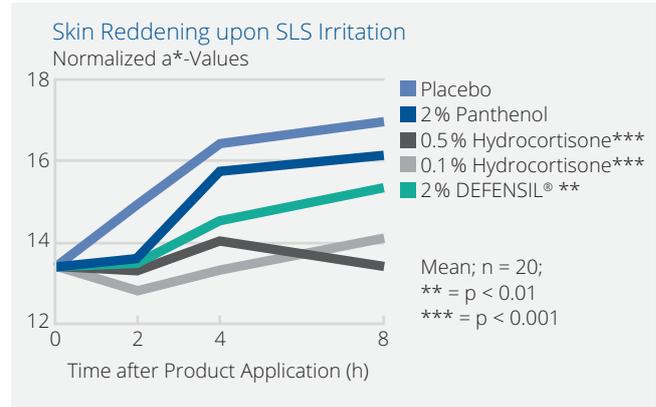
Method: Skin irritation was provoked by exposing the skin of 10 test subjects to infrared (IR) irradiation for 30 minutes, followed by application of a creamgel with 5% DEFENSIL® or placebo. Final microcirculation measurements were performed at 15 and 30 minutes after product application.



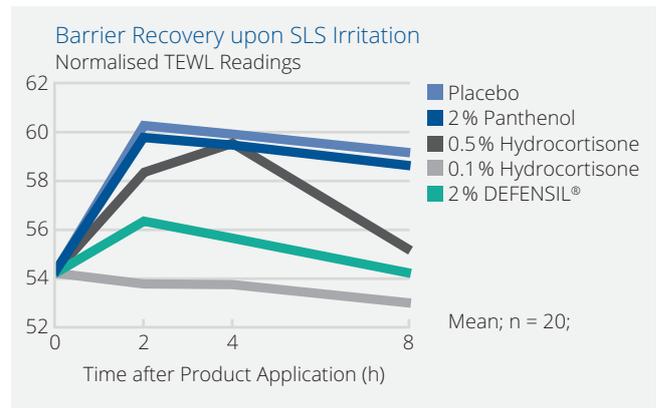
Result: DEFENSIL® has an immediate soothing effect on IR-irradiation provoked irritation.

DEFENSIL® EFFECTIVELY REGENERATES THE SKIN BARRIER (*in-vivo* study)

Method: Irritated skin on the one hand reveals increased transepidermal water loss and, on the other hand, reddening of the skin. The intense calming effect of 2% DEFENSIL® upon irritation with SLS, in comparison to hydrocortisone and panthenol, was impressively confirmed by a study performed with 20 persons.



Result: 2% DEFENSIL® lessened skin reddening immediately and enduringly and provided a significant soothing effect.



2% DEFENSIL® effectively prevented an increase in TEWL induced by SLS and protects the skin barrier from irritation.

Application and Processing Information

Sensitive skin care products, post-depilation products, intensive care products, baby products, pre-shaving products, after-sun products and lip balms.

Recommended Use Level: 1 – 5 %

INCI: EU: Octyldodecanol, Echium Plantagineum Seed Oil, Helianthus Annuus Seed Oil Unsaponifiables, Cardiospermum Halicacabum Flower/Leaf/Vine Extract, Tocopherol **PCPC/Japan:** Octyldodecanol, Echium Plantagineum Seed Oil, Helianthus Annuus (Sunflower) Seed Oil Unsaponifiables, Cardiospermum Halicacabum Flower/Leaf/Vine Extract, Tocopherol



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