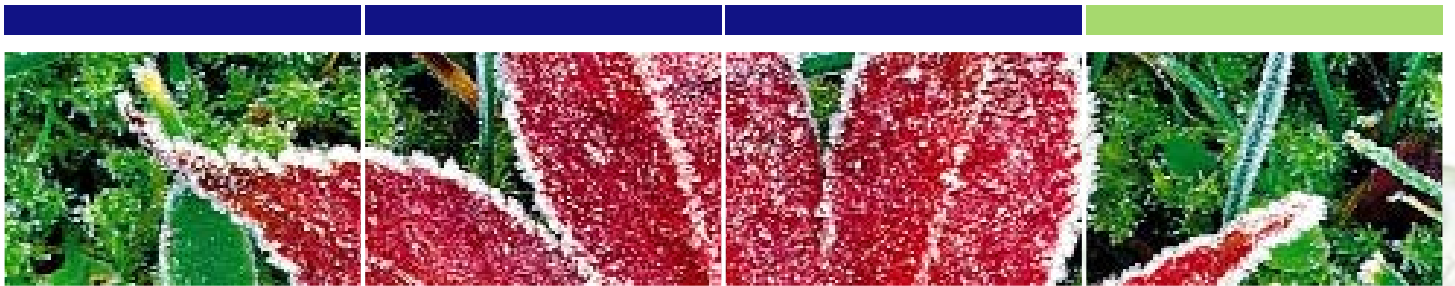




DEFENSIL®

Normalises Sensitive Skin



RAHN | Cosmetics

Your partner for excellence

DEFENSIL®

Nowadays our skin hardly ever rests. Environmental influences such as fluctuations in temperature, wind or UV radiation can strongly affect it. Mechanical and chemical stresses also have an effect, so the skin becomes more vulnerable and reacts more sensitively. The active cosmetic ingredient DEFENSIL® protects the skin barrier and has an anti-inflammatory effect.

Introduction

Around 20% of people consider their skin to be sensitive. As a result of the high level of stress that the skin has to tolerate day in and day out, it can easily happen that the skin's own regeneration mechanism can no longer be relied on. The stressed skin therefore has to be soothed. RAHN has developed an active ingredient concept which precisely meets these high demands and thus protects the skin.

The function

Cardiospermum is effective against itching and allergic skin rashes. It harmonises and protects irritated skin.

The stearidonic acid (omega-3 fatty acid) from the echium oil possesses anti-inflammatory properties, protects and strengthens the skin barrier.

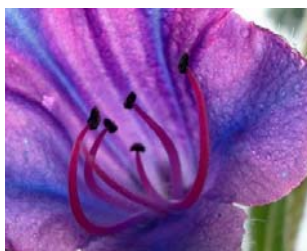
The unsaponifiable elements of the sunflower oil provide valuable nutritional elements such as phytosteroles, tocopherols and squalene.

Description of 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 itching and allergic skin rashes. This is attributed to the high proportions of phytosteroles and triterpens, whose anti-inflammatory properties are especially interesting.



Echium oil – cold pressed power oil

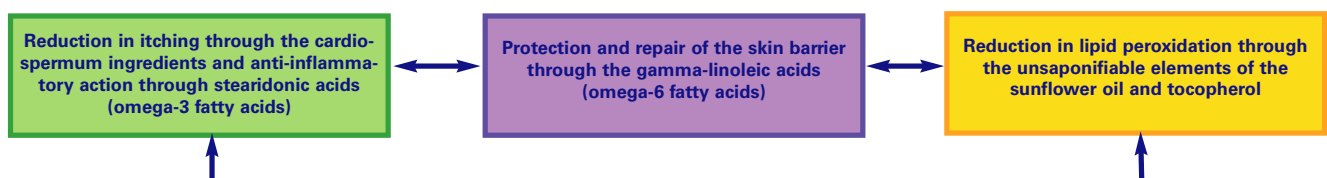
The oil is extracted from the seeds by cold pressing. Echium oil is very rich in stearidonic acid, an essential omega-3 fatty acid which is known for its anti-inflammatory property. The stearidonic acid effectively inhibits the 5-Lipoxygenase enzyme and thus retards the inflammatory mechanism. The equally 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.



Unsaponifiable elements of the sunflower

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. The skin is protected and supplied with important ingredients, and in this way deficits are compensated for in a natural way.

3-phase operating principle

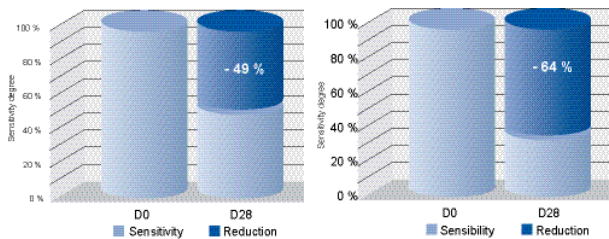


Normalises Sensitive Skin

Efficacy studies

In-vivo: Stinging test

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).

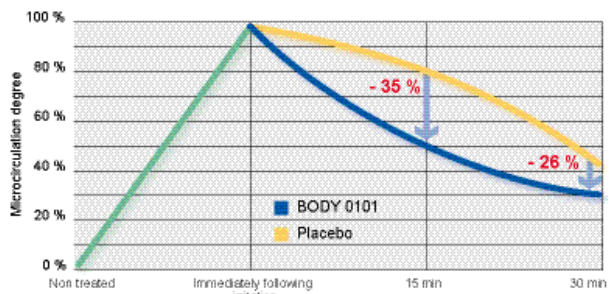


By regularly caring for sensitive skin with DEFENSIL®, the skin definitely becomes less sensitive!

Highly sensitive test persons reveal a particularly effective protective effect.

In-vivo: Micro-circulation

The skin was warmed up by means of infra-red radiation, activating the micro-circulation. Irritated and reddened skin normalises quickly and effectively with DEFENSIL®.



DEFENSIL® normalises irritations quickly and effectively.

Areas of application:

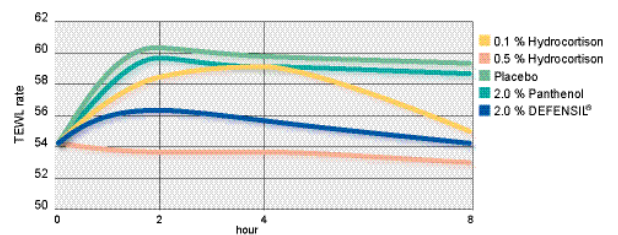
Sensitive care products, post-depilation products, after-shave products, baby care, after sun products, pre-shave products, lip care products

Further information:

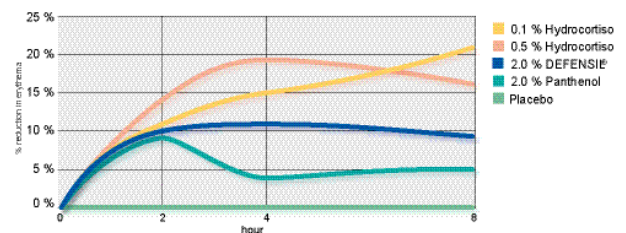
Antioxidation substance: 0.5% "mixed tocopherols"
 DEFENSIL® was tested for its eco-toxicology and toxicity, which revealed that it is not toxic, does not cause irritation and is favourably bio-degradable. DEFENSIL® is preservative-free.
 DEFENSIL® does not contain ingredients of animal or mineral oil origin and is GMO and CMR-free. The product was not tested on animals and contains no pesticides.

In-vivo: Comparison test against hydrocortisone and panthenol

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



2% DEFENSIL® has an immediate calming effect and hardly increases the TEWL.



2% DEFENSIL® reduces reddening of the skin steadily over a long period.

Application strength:

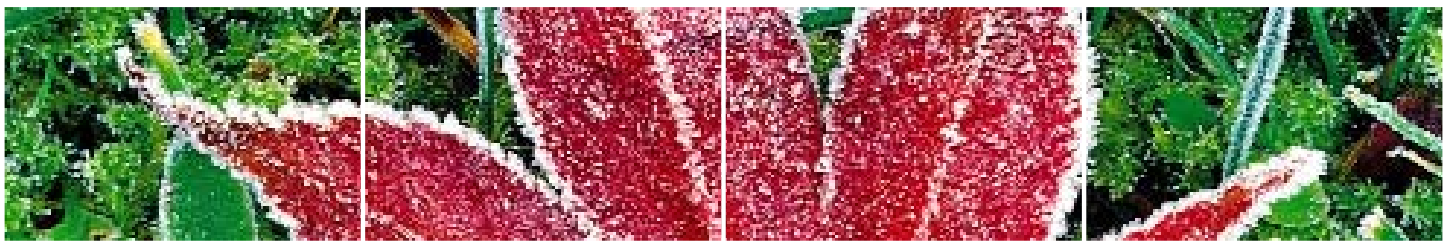
1% – 5%

INCI:

EU: Octyldodecanol, Echium Plantagineum Seed Oil, Helianthus Annuus Seed Oil Unsaponifiables, Cardiospermum Halicacabum Flower/Leaf/Vine Extract
USA: Octyldodecanol, Echium Plantagineum Seed Oil, Helianthus Annuus (Sunflower) Seed Oil Unsaponifiables, Cardiospermum Halicacabum Flower/Leaf/Vine Extract

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

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