

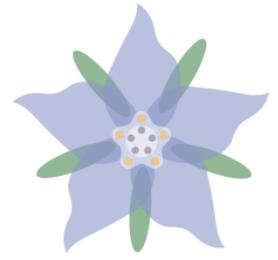
OLIVE



ALMOND



LINSEED



BORAGE SEED

# OLEOSOFT-40

ALL THE ENERGY OF VEGETAL OILS ENZYMATICALLY ACTIVATED

RESTORES SEBUM AND PREVENTS ITS LOSS

PROTECTS THE SKIN FROM FREQUENT WASHING

NON GREASY



OLEOSOFT-40



Washing your hands often is one of the basic rules in avoiding the spread of Coronavirus, but doing this several times a day together with the frequent use of alcohol-based hand sanitizers can cause unwelcome effects.

Repeated hand-washing eliminates the sebum on your skin and can leave you with dry, inflamed and chapped hands, aggravating any pre-existing skin disorders such as eczema.



OLEOSOFT-40 was formulated by means of our exclusive technology for enzymatic activation of plant oils, with a mixture of almond, olive, linseed and borage seed oils, chosen for their contents of various highly nutritious essential fatty acids.



ALMOND



LINSEED

### OLEOSOFT-40

- Oleic acid
- Linoleic acid
- Palmitic acid
- Squalene
- Alpha Linolenic acid
- Gamma Linolenic acid



BORAGE



OLIVE

This technology makes it possible to release all the energy trapped in vegetable oils and stored in plants as triglycerides. The process allows us to hydrolyze the triglycerides and obtain a new phytocomplex made up of fatty acids and glycerides that are bioavailable to skin cells. Watch the video on OLEOSOFT-40: <https://www.youtube.com/watch?v=6smo7WFCGdk>

OLEOSOFT-40 moisturises the skin without making it greasy, since it is absorbed more quickly than a mixture of non-activated oils. The product also gives your skin a soft and silky feel, much more like the effect of silicone products than of natural oils.

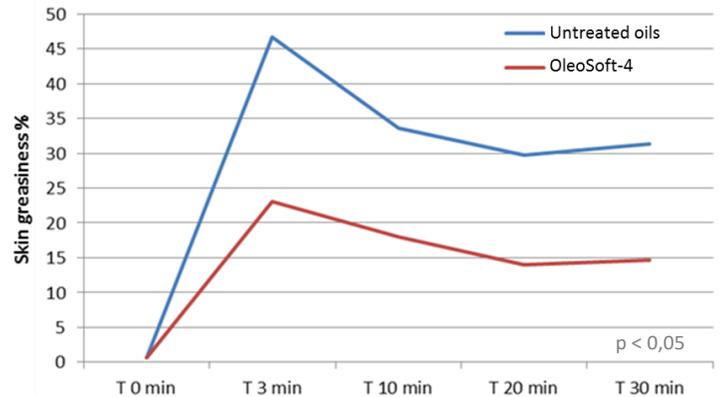


## IN VIVO SKIN CARE TESTS

### Absorption + 100% / Greasiness -50%

To assess the absorption of OLEOSOFT-40 in vivo and compare it with a similar mixture of non-enzymatically treated oils, known amounts of the 2 oils were applied on the forearms of 15 volunteers.

The short-term level of skin greasiness was then tested instrumentally. The results are reported in the Figure, showing that OLEOSOFT-40 is absorbed much more quickly than a similar mix of non-treated oils.

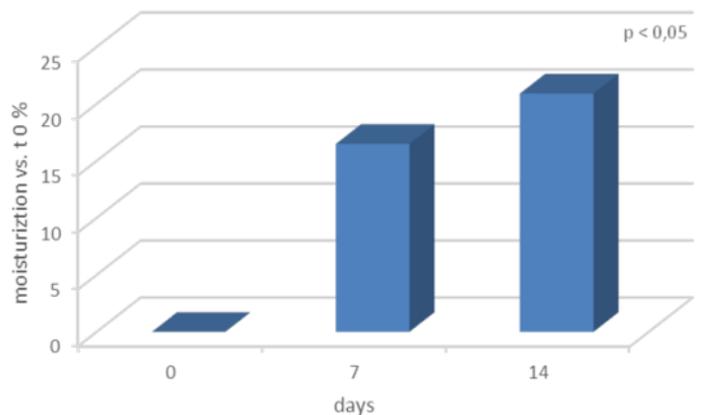


### Skin moisturisation + 25%

The contribution of OLEOSOFT-40 to the increase in skin moisturisation was tested on the forearms of 15 volunteers of both sexes, aged from 24 to 62 years old with a mean age of  $43 \pm 13$  years.

The product was tested at 3% w/w in a gel formulation applied to the skin and massaged until completely absorbed, twice a day.

OLEOSOFT-40 acts quickly, improving skin elasticity after just 7 days and reaching maximum effect in 14 days, corresponding to an increase in moisturisation of + 25%



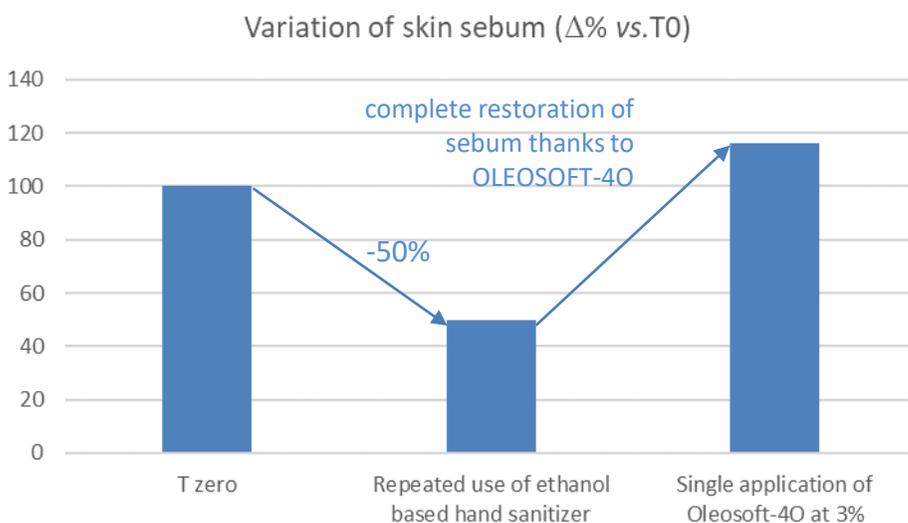
## iN VIVO SKIN CARE TESTS

### Restoring Sebum after repeated use of alcohol-based hand sanitizer products

To assess the loss of sebum on the skin caused by repeated use of alcohol-based hand sanitizer products, the forearms of 11 volunteers (of both sexes, aged between 25 and 45 years old with a mean age of  $37 \pm 6$  years) were treated three times, each treatment lasting 30 minutes, with an alcohol-based hand sanitizer formulated according to the WHO guide [https://www.who.int/gpsc/5may/Guide\\_to\\_Local\\_Production.pdf](https://www.who.int/gpsc/5may/Guide_to_Local_Production.pdf)

Alcohol-based hand-sanitizer formula	
Ethanol	80 % v/v
Glycerine	1,42 % v/v
Water	18,58 % v/v

The amount of sebum on the volunteers' skin was measured at time zero and after the three treatments with an alcohol-based sanitizer solution. The tests showed that repeated use of sanitizers lead to a 50% reduction of sebum on the skin (see figure below). The volunteers' forearms were then treated with a single application of a gel formulation containing OLEOSOFT-40 at 3% w/w, massaged into the skin until fully absorbed. One hour later, the amount of sebum was measured again, showing after just one application OLEOSOFT-40 is able to restore the sebum lost due to the frequent use of sanitizer products.



*A single application of OLEOSOFT-40 is able to restore the sebum lost due to the frequent use of sanitizer products*

**IN VIVO SKIN CARE TEST**



**Prevention of the loss of sebum by including OLEOSOFT-40 in a hand-sanitizer gel**

At a concentration of 3% w/w, OLEOSOFT-40 was added to an Isopropyl alcohol-based hand sanitiser gel. The formula proved stable and was tested to compare it with a sanitiser gel not containing OLEOSOFT-40.

The INCI name of the tested sanitiser gel: *ISOPROPYL ALCOHL, AQUA, GLYCERIN, ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER, PARFUM.*

The two gels were applied on the forearms of 11 volunteers (both sexes, aged between 25 and 45 with a mean age of  $37 \pm 6$  years) and massaged into the skin until fully absorbed:

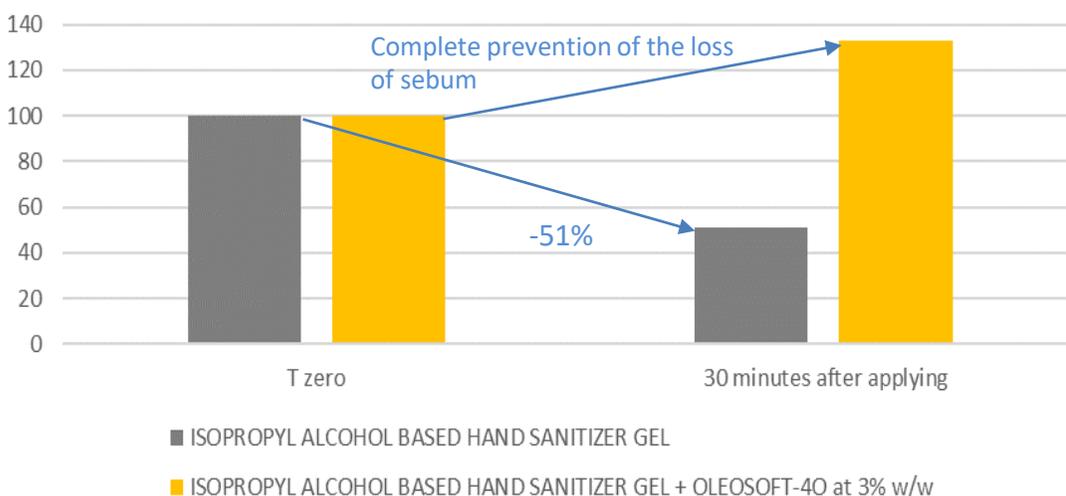
On the left forearm: ISOPROPYL ALCOHOL-BASED SANITIZER GEL

On the right forearm: ISOPROPYL ALCOHOL-BASED SANITIZER GEL + OLEOSOFT-40 at 3% w/w

The amount of sebum on the volunteers' skin was measured at time zero (before applying the gels) and 30 minutes after applying the two gels.

The tests showed that the ISOPROPYL ALCOHOL-BASED SANITIZER GEL damaged the hydrolipid film on the skin, leading to a 51% loss of sebum on the skin. The ISOPROPYL ALCOHOL-BASED SANITIZER GEL + OLEOSOFT-40 at 3% w/w, on the other hand, did not reduce the sebum on the skin, thus preserving the integrity of the hydrolipid film and protecting the skin.

Variation of skin sebum ( $\Delta\%$  vs.T0)



When included in a sanitizer gel, OLEOSOFT-40 at 3% w/w preserves the integrity of the hydrolipid film on the skin.



Effect of a single application of OLEOSOFT-40 at 3% w/w on skin damaged by frequent washing



**In conclusion, OLEOSOFT-40 at 3% w/w moisturizes the skin, preserves and restores sebum, protecting the skin from frequent washing, without being greasy.**

#### **TECHNICAL INFORMATION OLEOSOFT-40**

INCI: almond/borage/linseed/olive acids/glycerides, tocopherol.

OILS USED: olive oil, almond oil, linseed oil, borage seed oil.

TECHNOLOGY: Enzymatic Activation of Vegetable Oils.

SUGGESTED CONCENTRATION OF USE: 3-5% w/w skin care.

ORGANIC STATUS: COSMOS approved.

CHINA STATUS: also available in China compliant version.