

Olivem®900 SP is a new active ingredient designed for sunscreen products.

Olivem®900 SP has been engineered to **improve the dispersion of inorganic UV attenuating agents in sun care formulations** and contribute to water proofing by **improving the resistance to wash off**.

The development comes from a new technology of **re-balancing the original fatty acid chains distribution** to reduce the geometric dimension of the molecules and to have a lower "steric hindrance".

The smaller and extended molecules of Olivem®900 SP can better integrate into the vacant spaces left by the emulsifier chains around the emulsion droplets. This more homogeneous inter-phase space filling of the emulsion delivers a more efficient system which provides an increase in the UV protection ability of the formulation.

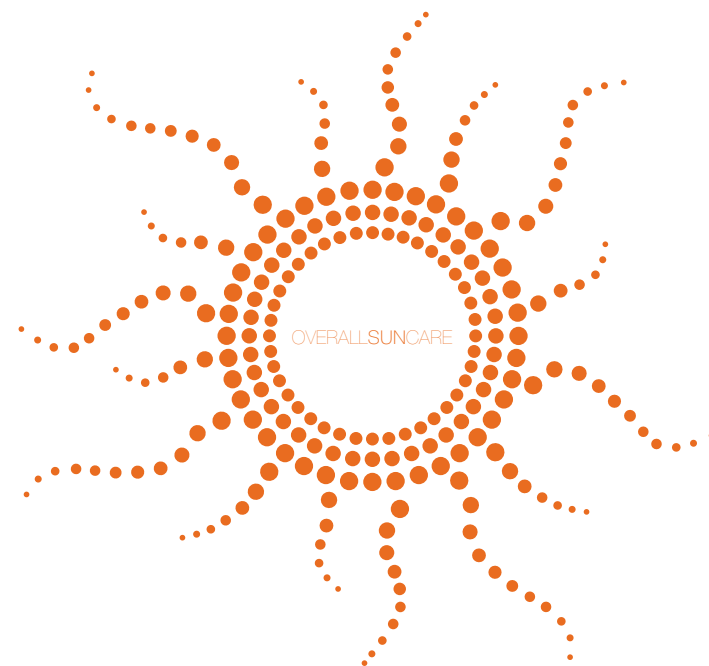
Olivem®900 SP is a **totally natural multifunctional lipid [EcoCert]**. Thanks to its special molecular structure it can be successfully used in silicone system.

The complete compatibility of Olivem®900 SP with silicone allows the formulator to develop silicone systems containing all the natural virtues of olive oil compounds: the presence of Olivem®900 SP in a W/S system **makes emulsions more pleasant**, in-line with the trend of a natural derived cosmetic. Moreover, studies show the ability of Olivem®900 SP to **optimize emulsion stability and viscosity**: this makes it ideal for sun care formulations.

 Olivem®900 SP | B&T COMPANY

B&T Srl - Via Ernesto Rossi, 60/62 - 20043 Arcore (MI)
Tel: +39 039 6180447 - Fax: +39 039 6188946 - Website: www.btcompany.com

WWW.OLIVEM900SP.COM



Olivem[®] 900 SP

Suncare multifunctional lipid

SPF enhancer

Improves the dispersion of in-organic UV attenuating agents



Thanks to its molecular structure, Olivem[®]900 SP possesses wetting and dispersing properties; when incorporated into a sunscreen product it is able to improve the dispersion of the UV attenuating agents. The improved dispersion of the micro granules of the inorganic UV attenuating agents from the effective wetting activity leads to a better homogeneity. The homogeneous dispersion of the physical filters over the skin provides more complete protection for the skin against the aggression of UV-rays.

Moreover, effective UV protection system can be achieved with even and consistent distribution of the UV attenuating agents over the skin surface: thanks to its dermo-compatibility, the deposition of Olivem[®]900 SP on the surface of the skin leads to the formation of a physiological and homogeneous film entrapping and carrying the UV-filter particles.

Therefore the addition of Olivem[®]900 SP enhances the efficacy of UV-filters in the formulation thereby improving protection against UV-rays.

waterproof action

Washing action resistant



Olivem[®]900 SP thanks to its smaller and elongated molecules, facilitates the emulsion of water into the silicone phase and therefore helps to better disperse the UV attenuating agents into the emulsion.

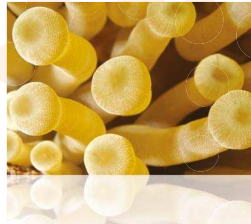
In addition, thanks to its dermo-compatibility, the UV filters captured by Olivem[®]900 SP are more firmly attached to the hydrolipidic film where they can resist the washing action resulting from water sport activities.

In-Vivo water resistant SPF studies showed Olivem[®]900 SP has the ability to maintain the water resistance at the same level in a W/O environment, without the silicones.

Olivem[®]900 SP provides maximum face and body full spectrum protection for active lifestyles by resisting wash off for long lasting defence.

pro-barrier agent

Improves protective barrier function
Maintains constant hydration



The peculiarity of Olivem[®]900 SP is that it is composed of a combination of fatty acids that chemically - and physiologically - mimics that found on the surface of the skin. This allows Olivem[®]900 SP to provide the skin with a uniform film, leaving a protective layer and constant hydration.

Therefore its ability to physiologically integrate into the skin lipid barrier enables it to increase the protective barrier function, decreasing the dehydration, consequently limiting the damages caused by UV-rays.

sensory experience

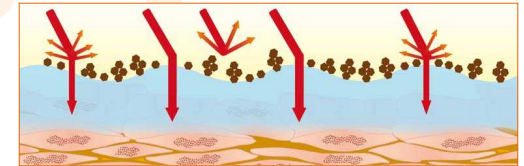
Delicious touch
Softness sensation



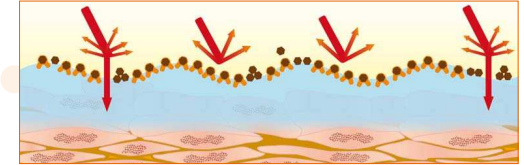
The extremely high skin compliance of Olivem[®]900 SP delivers an exquisite touch to an emulsion. Its sensorial performance starts with a rich and caring feeling, leading to a velvety, powdery and smooth after-feel.

Olivem[®]900 SP provides the basis for creating an overall cared-for skin feel and comfort, but in particular it is ideal for sun care formulations because it can create extraordinary moments that help replenish energy and stimulate a healthy sheen of UV protected skin.

Mechanism of action: SPF enhancer



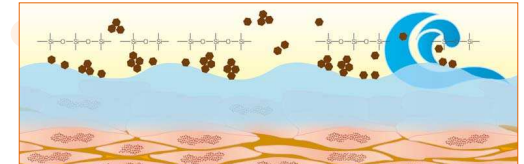
Silicones environment



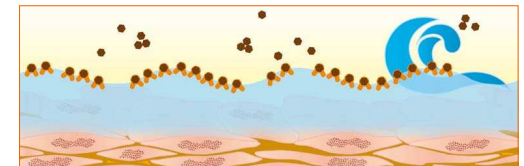
Silicones + Olivem[®]900 SP environment

Olivem[®]900 SP acts as SPF enhancer by helping to reduce the agglomeration of in-organic UV attenuating agents and improving the spreadability of the emulsion on the surface of the skin, maximizing protection by covering the total skin area.

Mechanism of action: waterproof



Silicones environment



Silicones + Olivem[®]900 SP environment

Olivem[®]900 SP acts as waterproof by contributing to the resistance to wash off by fixing the UV attenuating agents on the surface of the skin.



OVERALL SUNCARE