



Olivatis® 15C

Applicative guidelines

INTRODUCTION

Olivatis® 15C is an ultra-mild moisturizing surfactant, with lipid layer promoting, skin nourishing and conditioning properties.

Olivatis® 15C has been developed primarily for the manufacture of toiletries and its main features are:

- Absolute compatibility with any type of surfactant (cationic, non-ionic, anionic).
- Complete miscibility in water.
- Maximum compatibility with all types of skin. Tests have demonstrated that is non-irritating to skin.
- Non-irritating to eyes.
- Non-heat sensitive.

OLIVATIS 15C AS A CO-SURFACTANT IN SHAMPOOS AND TOILETRIES

The incorporation of **Olivatis® 15C** at 1%-3% as a co-surfactant reduces the irritation potential of the base formulation with emollient and conditioning effects at the same time.

Olivatis® 15C can be incorporated in traditional toiletries formulations, at any step of the manufacturing process. Usually, there is no need of changing the standard preparation procedure, with the following recommendations only:

1. EFFECT ON FOAMING

Olivatis® 15C has moderate foaming properties but does not affect the foaming properties of the other surfactants in the formulation. In products that shall generate a lot of foam, it is necessary to insert a suitable surfactant with **Olivatis® 15C**.

2. EFFECT ON VISCOSITY

Olivatis® 15C does not affect the thickening properties of other surfactants, although itself has no thickening effect. If formulators want to use high amounts of **Olivatis® 15C**, reducing primary surfactants, or to use low thickening surfactants, see the [related section](#).



MANUFACTURE OF HAIR CONDITIONERS

Being not heat-sensitive, **Olivatis® 15C** is fully compatible with cationic surfactants and, therefore, is an ideal surfactant for hair conditioners, especially when the primary conditioning agent requires a hot process (e.g. Behentrimonium Chloride).

For these applications, **Olivatis® 15C** can be incorporated both in the oil or in the water phase, the manufacturing process is not normally affected by the incorporation of **Olivatis® 15C**. Suggested concentrations of use are 1-3%.

MANUFACTURE OF SOAP BARS

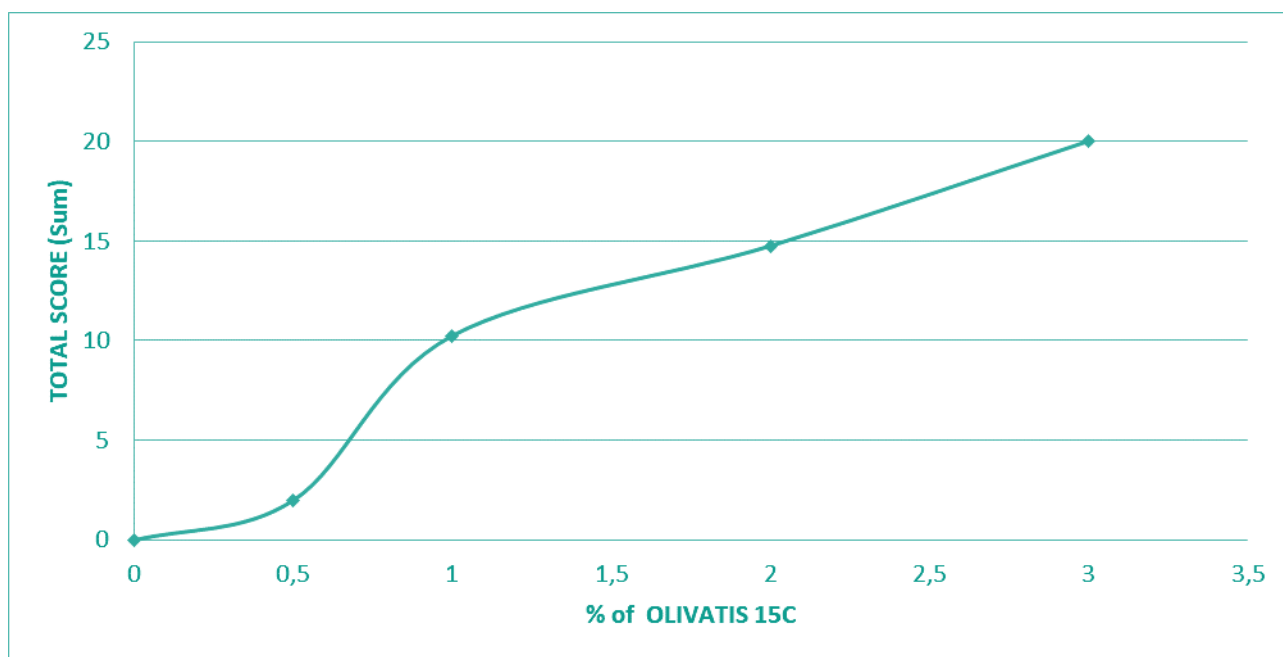
Olivatis® 15C provides suppleness to soap bars and changes the after-use sensation on skin, resulting more supple and soft after the use of soap.

The graph below shows the effect reported by a panel of 10 volunteers which evaluated in blind the after-feel of soaps with different concentrations of **Olivatis® 15C**.

Scores given by volunteers ranged from 0 to 2 where:

0 – Lowest (Dry/tight sensation, unpleasant feel)

2 – Highest (Moist/supple sensation, very pleasant feel)



Olivatis® 15C can be incorporated in the soap paste during the preparation together with other ingredients.

MANUFACTURE OF BATH BOMBS AND FIZZIES

Olivatis® 15C can be incorporated in bath bombs and fizzies as an emollient and surface-active agent. It should be added at 1-3% to the classic citric acid - sodium bicarbonate mixtures before the addition of water.





MANUFACTURE OF TOILETRIES WITH OLIVATIS 15C AS PRIMARY SURFACTANT

Thanks to the lack of irritation potential, **Olivatis® 15C** can be used as a primary surfactant in ultra-mild products such as:

- Eye face toiletries.
- Baby products.
- Toiletries for aged people.
- Intimate toiletries.

The concentrations of use in these formulations are between 2-7%. Main recommendations for these applications are:

1. INCREASING VISCOSITY

Use a specific thickener for toiletries to increase the viscosity, such as PEG-120 Methyl Glucose Dioleate, PEG-7 Glyceryl Laurate, PEG-200 Hydrogenated Glyceryl Palmate.

2. ADDITION OF FRAGRANCE OR ESSENTIAL OILS

If formulations contain high amounts of fragrances or essential oils, we suggest the addition of a solubilizer (e.g PEG-40 Hydrogenated Castor Oil) to achieve clear products.

3. QUALITY OF WATER

As **Olivatis® 15C** is produced by the trans-esterification of olive oil, it retains all unsaponifiable substances naturally present in olive oil. It is recommended to use demineralized water - free of calcium and magnesium – to get and maintain clear solutions. The presence of calcium or magnesium in water can lead to the haze of products in the long term.

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