



# Olivatis<sup>®</sup>

The ultimate emulsifiers



## Olivatis® Overview

Produced exclusively by **Medolla Speciality Chemicals** in Italy for a decade, **Olivatis®** are globally compliant, sustainable, high-performing ingredients resulting from the unique merge of a modern, green chemistry with Olive Oil and hence marked by outstanding technical performances and unparalleled sensorial attributes.

**Olivatis®** represent the acme of the Company's 30-years' activity and expertise in the field of emulsifiers that started with the production of today still very popular emulsifying waxes.

**Olivatis®** are produced not only with Italian olive oil but entirely with raw materials of European origin too. This provides guarantees of the high quality and constancy of products and is a strength-point in the supply-chain that is not affected by possible unpredictable changes in the extra-UE international scenario.

Very specific and accurate chemical processes of esterification and trans-esterification of Olive Oil and Olive Fatty Acids ensure the manufacture of a complete range of value-adding functional ingredients, suitable for a very great deal of applications, easy to use and with excellent skin feel and texture.





The range of **Olivatis®** currently consists of 5 products - 4 emulsifiers and 1 water soluble emollient/mild surfactant:

## Olivatis® 12C

Olive Oil Polyglyceryl-6 Esters,  
Polyglyceryl-6 Pentaoleate



COSMOS  
APPROVED

Cold & hot-process W/O emulsifier with excellent skin feel and high water resistance.



## Olivatis® 15C

Olive Oil PEG-8 Esters

Completely water-soluble olive oil, superlative emollient for water-based leave-on and rinse-off products.



## Olivatis® 18

Olive Oil Polyglyceryl-6 Esters,  
Sodium Stearoyl Lactylate,  
Cetearyl Alcohol



COSMOS  
APPROVED

Hot-process versatile and easy to use O/W emulsifier, giving a rich and unique texture.



## Olivatis® 20

Olive Oil Polyglyceryl-6 Esters,  
Lauryl Glucoside



Cold and hot-process O/W emulsifier, ideal for lower viscosity and sprayable emulsions.



## Olivatis® 21

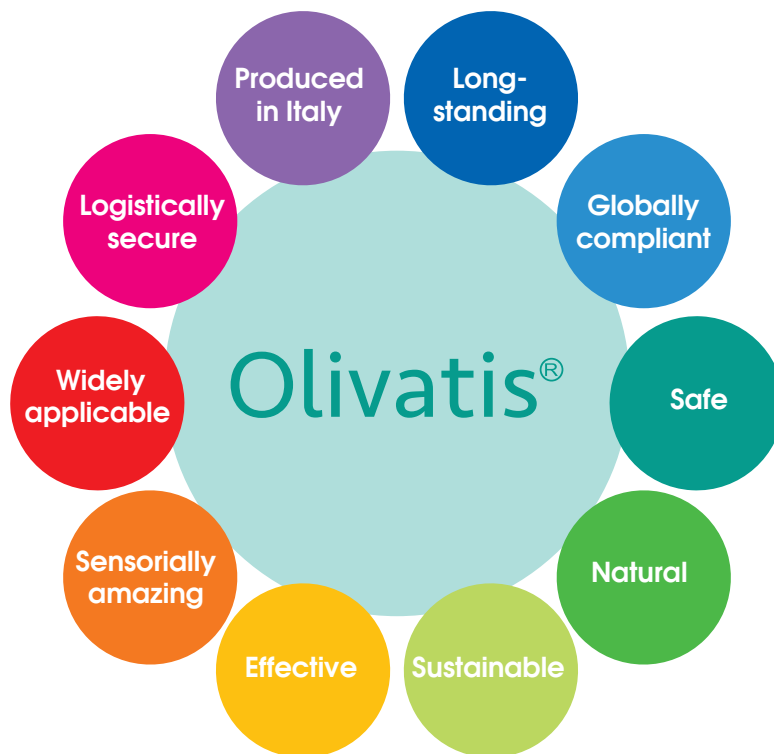
Olive Oil PEG-6 Esters, Olive Oil  
Polyglyceryl-6 Esters

Cold & hot-process high-performance O/W emulsifier recommended for all emulsions.



**Olivatis®** are very well technically supported by the high-skilled, enthusiastic staff located in our R&D center in Bastia Umbra, Italy, who offer customers a tailor-made assistance to remove their eventual formulating doubts and to supply them with any required information on regulatory matters. A relentless work also is carried on to develop the most modern guide-line formulations to highlight the exceptional performances of our Olivatis.

**Olivatis®** are distributed worldwide by an extensive network of well-established distributors who ensure a swift availability of products and a capillary support to customers.



## Olivatis® , for sustainable living

Olivatis® have been designed with the utmost attention to their sustainability not only to meet formulators' most challenging requirements but also to meet individual, social and environmental needs.

The sustainability of Olivatis® starts with the use of renewable, sustainable raw materials, first of all Olive Oil and Olive Oil fractions that are recovered by upcycling and further refining the olive pomace resulting from the pressing of olives. Olive pomace is a by-product of very variable quality without any proper specific use that should be otherwise disposed.

### Unlike other plantations, Olive trees are very environmentally friendly, as:

- They do not involve deforestation.
- They can be grown in extreme climatic conditions, where few other woody crops survive, thus resulting in a barrier to desertification and erosion.
- They do not require high amounts of water. Seventy percent of the world's olive orchards are rain fed, without water from irrigation and using only rainwater.
- When the proper agricultural practices are applied, the carbon sink effect of olive trees is much greater than the amount of CO<sub>2</sub> emitted to produce one product unit.

Olivatis® manufacturing processes have been perfected to minimize the consumptions of electricity, gas and water and to maximize the yield, that is almost total. Furthermore, production processes do not generate wastes and emissions and do not require toxic chemicals. Strict production procedures and controls also are implemented to avoid accidents, such as releases, fires and explosions, in the respect of workers, infrastructures and the surrounding community.





## Olive Oil, a superlative ingredient for personal care.

Olive Oil, a typical non-GMO substance, is one of the Italian products par excellence, whose numerous benefits have been known for thousands of years, since ancient populations used it to moisturize skin.

With the production of about three thousands metric tons per year, Olive Oil represents an important source of income for the Italian agricultural sector and an always available, secure ingredient for the production of personal care products.

Olive oil is not only used as such but is fractioned too to recover glycerine and fatty acids – oleic and stearic acids – by means of which it's possible to produce a range of basically olive-based products, with a drastic reduction of intermediates from palm, for instance.

In more recent years, the composition and properties of Olive Oil have been thoroughly investigated, scientifically supporting the consolidated belief in Olive Oil as an amazing natural substance. In fact Olive Oil, whose lipid profile is very similar to that of human skin, contains a spectrum of substances beneficial to skin, such as Vitamins A, D, and K, as well as vitamin E (alpha-tocopherol), carotenoids and phenolic compounds (simple phenols such as hydroxytyrosol and complex phenols such as oleuropein) which are all powerful antioxidants protecting against the free radicals that produce cells oxidation and deterioration and ultimately skin ageing.



# Olivatis® 12C

## Olive Oil Polyglyceryl-6 Esters, Polyglyceryl-6 Pentaoleate

**Olivatis® 12C** is a palm-free, natural, non-ionic, viscous liquid, W/O emulsifier, suitable for hot and cold-process, with excellent skin feel despite its very high water-resistance. Infact, the superficial film created by **Olivatis® 12C** is water resistant, but is light, almost unperceivable.

**Olivatis® 12C** maintains a pleasant level of skin hydration and leaves skin smooth and soft. **Olivatis® 12C** confers to W/O emulsions freshness, lightness and good spreadability, preventing the greasiness and tackiness typical of the W/O emulsions of the past.

**Olivatis® 12C** is a broad-range emulsifier but works best with mixtures of oils and esters at the recommended **Olivatis® 12C**/oil ratio of 1:4 – 1:5.

In make-up products, **Olivatis® 12C** acts as a very effective dispersant of powders, from “fillers” such as talc and kaolin to pigments, improving the brilliance of colors in lip gloss and color cosmetics, as well.



### PHYSICAL / CHEMICAL PROPERTIES

Appearance:	viscous liquid, clear above 30°C
Color (Gardner):	< 5
Acid value:	15 max.
Saponification value:	160 - 180
Water:	1% max.
HLB:	4 - 5



# Olivatis® 15C

## Olive Oil Peg-8 Esters

**Olivatis® 15C** is produced by an exclusive transesterification process that allows the substitution of the glyceric fraction of olive oil with PEG-8.

This exclusive process, without direct condensation with ethylene oxide, makes olive oil easily available in water systems, maintaining the composition in fatty acids and unsaponifiable fractions.

The resulting product is a completely water-soluble, practically odorless, clear, yellow liquid, free of impurities and suitable for use in detergents, tonics, lotions, aqueous or hydro alcoholic solutions, where the outstanding emollient and lubricant properties of olive oil are appreciated.

**Olivatis® 15C** has super-fattening and detergent properties and at a 1-5% concentration in toiletries helps reducing dryness of hair scalp and skin after use.

**Olivatis® 15C** does not affect foaming and is suitable for clear shampoos, tonics, body and facial wash and micellar waters.

Thanks to its faint color, **Olivatis® 15C** does not modify the color of finished products, allowing formulators to achieve all possible shades easily.

**Olivatis® 15C** is a very mild ingredient and is widely used in leave-on products too.

### PHYSICAL / CHEMICAL PROPERTIES

Appearance:	clear oily liquid
Color (Gardner):	< 2
Odor:	very faint, almost undetectable
Acid value:	3,0 max.
Saponification value:	35 - 55
Water:	6,0 - 8,5
pH (5 % water sol.):	15 max.
HLB:	14 about
1,4 Dioxane:	10 ppm max.
Free Ethylene Oxide:	1 ppm max.

# Olivatis® 18

Olive oil Polyglyceryl-6 Esters, Sodium Stearoyl Lactylate, Cetearyl Alcohol

**Olivatis® 18** is an outstanding, natural, globally compliant, hot-process, O/W emulsifier with excellent emulsifying power and low inherent odor and color and featured by high versatility, ease of use and high stability in acidic and alkaline environment.

The combination of an emulsifier derived from olive oil, rich in fatty acids similar to those of human sebum, and of a derivative of lactic acid, an essential component of the NMF, makes **Olivatis® 18** a superior emulsifier with skin moisturizing and protecting properties, offering a light and silky feel and excellent spreadability.

**Olivatis® 18** is a very effective emulsifier for a wide range of fatty substances, in a broad range of concentrations. Even difficult-to-emulsify oils, such as vegetal and silicon oils, are emulsified easily and successfully.

The recommended concentration of use of **Olivatis® 18** in emulsions is 20-40 % of the oil phase concentration, or 3-4% in milks and lotions and 4-6,5% in creams, depending on the volume and the attributes of the components.

**Olivatis® 18** is the ideal solution for skin care, suncare and colour cosmetics.



## PHYSICAL / CHEMICAL PROPERTIES

Appearance:	waxy flakes
Color:	ivory
Melting range:	50° - 60° C
Acid value:	10 - 25
Saponification value:	85 - 115
Water:	2% max.
pH (5% water dispersion):	5,0 - 7,5
HLB:	11 about

# Olivatis® 20

## Olive Oil Polyglyceryl-6 Esters, Lauryl Glucoside

**Olivatis® 20** is a globally compliant, natural, cold and hot-process, O/W emulsifier ideally suitable for sprayable to pourable lotions, in particular for wet-wipes emulsions.

Due to its excellent compatibility with both low and high-polarity oils and electrolytes and its tolerance to pH and temperature, **Olivatis® 20** is an outstanding emulsifier for troublesome emulsions too.

Rather than an emulsifier, **Olivatis® 20** can be classified as a hydrophilic lipid, forming fluid O/W emulsions, very fresh and light and with a unique and pleasant velvet effect.

**Olivatis® 20** should be used as a cold-process emulsifier at an emulsifier/oil ratio of 1:1 or 1:2. In low viscosity emulsions it is recommended to use a low amount (0,2-0,3%) of a popular stabilizer (such as xanthan gum, guar gum, etc).



### PHYSICAL / CHEMICAL PROPERTIES

Appearance:	viscous liquid
Color (Gardner):	< 4
Acid value:	10 max.
pH (5% w.s.):	5,5 - 7,5
Saponification value:	100 - 130
Water:	13% max.



# Olivatis® 21

## Olive Oil Peg-6 Esters, Olive Oil Polyglyceryl-6 Esters

**Olivatis® 21** is an outstanding universal, non-ionic, palm-free, liquid, Oil-in-Water (O/W) emulsifier, ideally suitable for cold, low-energy and cost-saving manufacturing processes.

**Olivatis® 21** is versatile, mild, robust, cost-effective, easy-to-use and high-compatible with both low and high-polarity oils, silicone oils, electrolytes, quaternary compounds, temperature and a broad pH range.

**Olivatis® 21** is the choice of excellence for sprayable and pourable lotions and creams, giving formulations an excellent touch and improving smoothness, emolliency and skin moisturization, as well.

Furthermore, **Olivatis® 21** is soluble in a wide range of oils making it possible to create water-dispersible oils easily. In fact, it is sufficient to mix **Olivatis® 21** and the oils to get crystal-clear, self-emulsifying oils, such as hair oils, massage oils and make-up removers; the extra oil can be removed simply by rinsing, thereby enriching skin with all beneficial properties of oils but not leaving any oily sensation.

### **Olivatis® 21 is the ideal emulsifier to produce:**

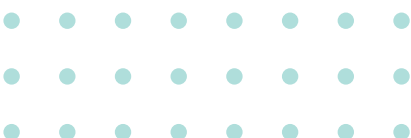
- High-stable, ultra-fluid milk emulsions, even without the addition of stabilizers such as gums.
- Self-emulsifying crystal-clear oils.
- Gel-creams with the concentration of the emulsifier as low as 1%.

According to the ISO 16128 standard, **Olivatis® 21** is a natural-derived product whose components have the following natural origin index I (no):

- Olive Oil Peg-6 Esters: 0,52
- Olive Oil Polyglyceryl-6 Esters: 1,00

## PHYSICAL / CHEMICAL PROPERTIES

Appearance:	viscous liquid
Color (Gardner):	< 4
Acid value:	10 max.
pH (5% w.s.):	5,5 - 7,5
Saponification value:	100 - 130
Water:	13% max.





Olivatis® is a registered trademark of:



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