

# SENSICARE®FP 3 ECO

Antimicrobial agent free of preservatives for personal care and cosmetic formulations

**DESCRIPTION** **SENSICARE® FP 3 ECO** is an effective antimicrobial agent, free of preservatives, that shows a multifunctional activity due to its components potentiating the anti-oxidizing, skin conditioning and wetting characteristics of the personal care products. Inspired in Nature. Pentane-1,2-diol it's from renewable vegetable origin.

## Product benefits

- Very low toxicity profile
- Wide efficacy spectrum. **Active against bacteria, yeasts and fungi.**
- Effective preservation in both emulsion chambers (water and organic phase)
- No side effects. Stable viscosity
- **Compatible with the usual different types of personal care formulations**
- It does not contain active ingredients classified as CMR.
- Glyceryl laurate derives from palm kernel oil that is certified RSPO
- Formaldehyde free / Paraben free / Petrolatum free / Sulphates free / Allergen free / AOX free.
- Vegan acceptance
- Ecolabel / Der blue angel / Nordic swan / Ecocert / Cosmos / Natrue approval
- **Free of any preservative active ingredient.**
- Active in the whole pH range.
- Suitable for oral care formulations.

ACTIVE SUBSTANCES	INCI declaration	CAS number
	Hydroxyacetophenone	99-93-4
	Glyceryl Laurate	142-18-7
	Pentylene glycol	5343-92-0

CHARACTERISTICS	Appearance	Clear, slightly yellowish liquid.
	Odour	Characteristic.
	pH (1 %)	4.5 – 5.5
	Density (20 %)	1,010 – 1,014 g/ml
	Refraction Index (20 °C)	1,473 – 1,475
	Water solubility	Milky dispersion

**EFFECTIVENESS** **SENSICARE® FP 3 ECO** has shown its effectiveness against the following microorganisms among others (Test at pH 5):

<i>Type</i>	<i>Microorganism</i>	<i>M.I.C. (%)</i>
<b>Bacteria gram +</b>	<i>Staphylococcus aureus</i>	0,56
	<i>Staphylococcus epidermis</i>	0,60
<b>Bacteria gram -</b>	<i>Escherichia coli</i>	0,40
	<i>Pseudomonas aeruginosa</i>	0,60
	<i>Pseudomonas fluorescens</i>	0,60
	<i>Aspergillus niger</i>	0,70
<b>Fungi</b>		
<b>Yeasts</b>	<i>Candida albicans</i>	0,70

**APPLICATIONS AND USE LEVELS** **SENSICARE® FP 3 ECO** is an excellent antimicrobial agent for the protection of all type of personal care formulations, either rinse off or leave-on, due to its excellent activity at any pH value, and its stability in the different forms the personal care products are presented.

It is suitable for the formulation of Organic and Natural cosmetic products.

**SENSICARE® FP 3 ECO**, further to its antimicrobial activity, also enhances the anti-oxidizing and anti-irritant properties on the formulation of the personal care products at the usage doses.

As general guidance it is recommended to be added at early stages of the production process, ensuring a correct distribution through all the system. Used involved in a barrier technology strategy can enhance the performance (reduce Aw, quelating agents, antioxidants, low pH...), the typical dose of use is in the range of 1.5 to 2.5 %. The use levels depend on the characteristics of the product where added and the environmental conditions to which it is exposed. The optimum concentration should be assessed by means of a Cosmetic Challenge Test for specific applications.

**USE GUIDELINES** **SENSICARE® FP 3 ECO** is compatible with most of the raw materials used in the formulation of personal care and cosmetic products. **SENSICARE® FP 3 ECO** shows an excellent stability during its use in a wide range of pH values, from 3 up to 10. It is also stable at high temperatures, up to 80 °C.

**SENSICARE® FP 3 ECO** disperses in water giving a milky appearance, when used in formulations that must be clear it is recommended the use of emollients, such as 2 % of castor oil, or anionic surfactants about 0.2 %.

As general guidance it is recommended to be added at early stages of the production process, ensuring a correct distribution through all the system. Used involved in a barrier technology strategy can enhance the performance (reduce Aw , quelating agents , low pH,..)

**HANDLING, STORAGE,  
HEALTH AND SAFETY**

**Packaging**

HDEP drum 5 kg net.  
HDEP drum 25 kg net.  
HDEP drum 200 kg net.  
Standard HDEP IBC 1000 kg net.

**Shelf life**

Best use before 24 months from production date.

**Storage**

Store in a cool dry place between 6 °C and 35 °C protected from frost, heat and direct sunlight, in the original container well sealed. If the product is stored below 5°C it may be that precipitates appear that disappear without affecting the quality of the product after recovering the ambient temperature 20°C.

**Transport and labelling**

It is not classified as a dangerous product for transport.

**Handling**

It is recommended handle it taking the typical measures for this type of chemicals including protective clothing, overalls, gloves, goggles and face protection. Avoid contact with skin, eyes and mucous membranes. Use chemicals safely. Always read the label and product information before use.

***For further information, refer Material Safety Data Sheet available under request.***

The information here contained and recommendations regarding our products are for the purposes of general guidance only. It is given in good faith as assistance to Users and no liability can be derived from it. Due to the variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the information/products for the applications disclosed. We cannot guarantee how any products associated with this information will perform in combination with other substances or in User's process. Users are advised to test by themselves. Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without the permission of the patent owner. Chemipol makes no warranties, express or implied, including, but not limited to, the implied warranties of merchantability or fitness for a particular purpose. Use chemicals safely. Always read the label and product information before use. Please, contact us for further information. We have available Technical Data Information, Material Safety Data Sheets and Product Regulatory Information.