

## DUAL-ACTION NANOVECTOR: HEAT AND UV PROTECTION

**CODE:** LIPCUAT-11

Date of last amendment: 20.12.2021

**INCI name:** WATER (AQUA) (AND) PHOSPHOLIPIDS (AND) POLYQUATERNIUM-16 (AND) PHENYL TRIMETHICONE (AND) ETHYLHEXYL METHOXYCINNAMATE (AND) PRUNUS AMYGDALUS DULCIS (SWEET ALMOND) OIL (AND) HYDROLYZED SILK (AND) PHENOXYETHANOL (AND) PANTHENOL (AND) TOCOPHEROL.

**DESCRIPTION:** Nanodispersion of phospholipids from non-GMO soybean lecithin associated to a quaternary polymer that confers positive net charge and high substantivity, which encapsulate and transport Silicones, Almond Oil, Panthenol, Hydrolyzed Silk, Vitamin E and Ethylhexyl Methoxycinnamate as Solar Filter.

**PROPERTIES:** Protects capillary fiber from sudden temperature changes, especially when using hair straighteners or hair driers, and solar radiation. It forms a protective film that decreases heat transfer speed to hair, preventing burns and/or the formation of vapour bubbles that damage hair structure. Helps prevent deterioration of hair fibers due to UV radiation. Conditions, reduces frizz and leaves hair soft and bright. Prevents split ends.

COMPOSITION (INCI NAME)	% (weight)	CAS #
Water (Aqua)	71.150	7732-18-5
Phospholipids	10.000	123465-35-0
Polyquaternium-16	10.000	95144-24-4
Phenyl Trimethicone	4.000	2116-84-9
Ethylhexyl Methoxycinnamate	1.500	5466-77-3
Prunus Amygdalus Dulcis (Sweet Almond) Oil	1.000	8007-69-0 / 90320-37-9
Hydrolyzed Silk	1.000	96690-41-4
Panthenol	0.500	81-13-0 / 16485-10-2
Tocopherol	0.100	10191-41-0
<b>Preservatives:</b> Phenoxyethanol	0.750	122-99-6

<b>Particle size:</b>	100 – 300 nm. (DLS)
<b>Manufacturing method:</b>	Microfluidization
<b>Net charge of the liposome:</b>	Positive
<b>Color:</b>	Yellowish white to brownish
<b>Appearance:</b>	Semi-translucent to opalescent liquid. Absence of foreign matter
<b>Odor:</b>	Mild, characteristic
<b>Water dispersion:</b>	It scatters in all proportions
<b>pH:</b>	5.00 – 7.00 (USP XXVII) (25° C)
<b>Density:</b>	0.980 – 1.050 (USP XXVII) (pycnometer)
<b>Dry residue:</b>	25 gr.% min. (0.5 gr. 1 hour 110° C)
<b>Microbiological control:</b>	Mesophilic bacteria: less than 200 CFU/gr. Moulds & yeast: less than 20 CFU/gr. No pathogens.

Keep in fresh place (5 - 25°C / 40 - 77°F). Do not freeze. Protect from light. As phases may separate, shake before use.

**EXTERNAL COSMETIC USE**