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 SUPPLEMENTARY INFORMATION

**Table 2. Cosmetic suggested classes for nanocellulose application in this study, their recipes or formulation conforming function and description conforming EU regulation [6] in 3 main categories of importance (Small, medium and large considering the circle size)**

Function	Description	Application proximity for nanocellulose				References
		GRADE (5 to 15)	(+)/5	(+ +)/10 (+ + +)/15		
ABSORBENT	Taking up water- and/or oil-soluble (dissolved or finely dispersed) substances.	10		x		[6]
ANTI-SEBUM	Helping control sebum production.	10		x		[6]
ANTISTATIC	Preventing and/or reducing static electricity by neutralizing electrical charge on surfaces.	5	x			[6]
ASTRINGENT	Contracting and/or tightening the skin.	5	x			[6]
BINDING	Providing adhesive properties during and after compression in cosmetic tablets and/or cakes.	15			x	[6]
BUFFERING	Stabilizing the pH of an aqueous medium in a narrow range even if an acid or base is added. Altering and/or maintaining a cosmetic product's pH at the desired level.	5	x			[6]
BULKING	Non-reactive (chemically inert), solid ingredients that dilute other solids and/or increase the volume of cosmetic products.	15			x	[6]
CHELATING	Forming complexes with metal ions which could affect the stability and/or appearance of cosmetics.	10		x		[6]
COLORANT	Exclusively or mainly intended to color the cosmetic product, the body as a whole or certain parts thereof, by absorption or reflection of visible light; (precursors of oxidative hair colorants shall be considered colorants). All authorized colorants are substances in the positive list of Annex IV to the Cosmetics Regulation 1223/2009.	5	x			[6]
DISPERSING NON-SURFACTANT	Facilitating the dispersion of solids in liquids. They function primarily by coating the solid through the process of adsorption, thus changing the surface characteristic of the suspended solid.	5	x			[6]
EXFOLIATING	Initiating and/or accelerating removal of the layers of dead skin cells from the skin surface.	5	x			[6]
FILM FORMING	Producing (upon application) a continuous film on the skin, hair or nails.	15			x	[6]
FOAMING	Trapping numerous small bubbles of air or other gas within a small volume of liquid by modifying the surface tension of the liquid.	5	x			[6]
Gel Forming	Giving the consistency of a gel (a semi-solid preparation with some elasticity) to a liquid preparation.	15			x	[6]



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HUMECTANT	Retaining and/or preserving the moisture in a product during use.	15			x	[6]
MOISTURIZING	Increasing the water content of the skin and keeping it soft and smooth.	15			x	[6]
NAIL CONDITIONING	Improving and/or enhancing the cosmetic characteristics of the nail (moisturizing, increasing sheen, reducing brittleness and flaking, etc.).	15			x	[6]
NOT REPORTED	No function currently reported	15			x	[6]
OCCLUSIVE	Preventing and/or slowing down the evaporation of water from the skin surface.	5	x			[6]
PLASTICIZER	Softening and making supple synthetic polymers that otherwise could not be easily deformed, spread or worked out.	5	x			[6]
SKIN CONDITIONING - EMOLLIENT	Acting as lubricants on the skin surface providing the skin with a soft and smooth appearance.	5	x			[6]
SKIN CONDITIONING - HUMECTANT	Increasing the water content of the top layers of the skin. Humectants are primarily hygroscopic agents drawing moisture from the surrounding air.	15			x	[6]
SKIN CONDITIONING - OCCLUSIVE	Slowing the evaporation of water from the skin surface. Occlusives are generally lipids which tend to remain on the skin surface and thus increase the water content of skin.	5	x			[6]
SURFACE MODIFIER	Applied to other cosmetic components to make them more hydrophilic or hydrophobic, or to modify their physical/chemical properties (in some cases, surface modifiers may form a covalent bond with substrates).	15			x	[6]
SURFACTANT	Helping other ingredients that normally do not mix to dissolve or disperse in one another. Surfactants are also called a surface active agents as they lower the surface tension of water or reduce the interfacial tension between immiscible components.	5	x			[6]
SURFACTANT - CLEANING	Wetting body surfaces, emulsifying or solubilizing oils, and suspending soil (generally, such ingredients contribute to the foaming and lathering properties of cleansing products).	5	x			[6]
SURFACTANT - DISPERSING	Helping distribute an insoluble solid in a liquid phase.	5	x			[6]
SURFACTANT - EMULSIFYING	Helping suspensions or dispersions of liquids in a second liquid by reducing the surface tension of the substances to be emulsified.	5	x			[6]
SURFACTANT - FOAM BOOSTING	Increasing foaming capacity and/or stabilizing foams in general.	5	x			[6]
SURFACTANT - SOLUBILIZING	Helping another component (solute) to dissolve in a medium in which it is not normally soluble.	5	x			[6]
VISCOSITY CONTROLLING	Increasing or decreasing the viscosity (thickness) of cosmetics.	15			x	[6]

pH ADJUSTERS	Controlling the pH of cosmetic products.	5	x			[6]
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**Table 3. FDA Cosmetics product categories and subcategories [4]**

Cosmetic Product Categories and Codes			
ID	Categories	Sub-categories	Reference
1	Baby products	Baby shampoos	[4]
		Lotions, oils, powders and creams	
		Baby wipes	
		Other baby products	
2	Bath preparations	Bath oils, tablets, and salts	
		Bubble baths	
		Bath capsules	
		Other bath preparations	
3	Eye makeup preparations (other than children's eye makeup preparations)	Eyebrow pencils	
		Eyeliners	
		Eye shadows	
		Eye lotions	
		Eye makeup removers	
		False eyelashes	
		Masks	
		Eyelash and eyebrow adhesives, glues, and sealants	
		Eyelash and eyebrow preparations (primers, conditioners, serums, fortifiers)	
		Eyelash cleansers	
4	Children's eye makeup preparations	Other eye makeup preparations	
		Children's eyeshadows	
5	Fragrance preparations	Other children's eye makeup	
		Colognes and toilet waters	
		Perfumes	
		Powders (dusting and talcum) (excluding aftershave talc)	
6	Hair preparations (non-coloring)	Other fragrance preparations	
		Hair conditioners	
		Hair sprays (aerosol fixatives)	
		Hair straighteners	
		Permanent waves	
		Rinses (non-coloring)	
		Shampoos (non-coloring)	
		Tonics, dressings, and other hair grooming aids	
		Wave sets	
7	Hair coloring preparations	Other hair preparations	
		Hair dyes and colors (all types requiring caution statement and patch test)	

		Hair tints	
		Hair rinses (coloring)	
		Hair shampoos (coloring)	
		Hair color sprays (aerosol)	
		Hair lighteners with color	
		Hair bleaches	
		Eyelash and eyebrow dyes	
		Other hair coloring preparations	
		Blushers and blushes (all types)	
		Face powders	
8	Makeup preparations (not eye)(other than makeup preparations for children)	Foundations	
		Leg and body paints	
		Lipsticks and lip glosses	
		Makeup bases	
		Makeup fixatives	
		Other makeup preparations	
		Children's blushers and rouges (all types)	
		Children's face paints	
9	Makeup preparations for children (not eyes)	Children's face powders	
		Children's foundations	
		Children's lipsticks and lip glosses	
		Children's color hairsprays	
		Other children's makeup	
		Basecoats and undercoats	
		Cuticle softeners	
10	Manicure preparations	Nail creams and lotions	
		Nail extenders	
		Nail polishes and enamels	
		Nail polish and enamel remover	
		Other manicure preparations	
		Dentifrices (aerosols, liquids, pastes, and powders)	
		Mouthwashes and breath fresheners (liquids and sprays)	
11	Oral products	Other oral products	
		Bath soaps and body washes	
12	Personal cleanliness	Deodorants (underarm)	
		Showers	
		Feminine deodorants	
		Disposable wipes	
		Other personal cleanliness products	
		Aftershave lotions	
13	Shaving preparations	Beard softeners	
		Men's talcum	
		Pre-shave lotions (all types)	

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		Shaving creams (aerosol, brushless, and lather)	
		Shaving soaps (cakes, sticks, etc.)	
		Other shaving preparation products	
14	Skin care preparations, (creams, lotions, powders, and sprays)	Cleansing (cold creams, cleansing lotions, liquids, and pads)	
		Depilatories	
		Face and neck (excluding shaving preparations)	
		Body and hand (excluding shaving preparations)	
		Foot powders and sprays	
		Moisturizing	
		Night	
		Paste masks (mud packs)	
		Skin fresheners	
		Other skin care preparations	
15	Suntan preparations	Suntan gels, creams, and liquids	
		Indoor tanning preparations	
		Other suntan preparations	
16	Tattoo preparations	Permanent tattoo inks	
		Temporary tattoo inks	
		Other tattoo preparations	
17	Other preparations (ie, those preparations that do not fit another category)	No subclasses	

**Table 4. ANVISA Cosmetics product categories and subcategories [5]**

Cosmetic Product Categories and Codes			
ID	Categories	Sub-categories:	Reference
1	Products Grade 1	Eau de Cologne, Perfumed Water, Cologne, Perfume, and Aromatic Extract	[5]
2		Non-caustic cuticle softener	
3		Mouth freshener	
4		Facial and/or body foundation	
5		Lipstick and lip gloss	
6		Blush or rouge	
7		Nail whitener	
8		Glue or adhesive fixative for attaching hair or wigs to the scalp.	
9		Eyelash glue or glue fixative.	
10		Glue or adhesive fixative to promote the extension of hair strands attached to the scalp.	
11		Nail glue or glue fixative	
12		Conditioner or cream with rinse-out or hair rinse	

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13	Leave-in conditioner
14	Facial concealer
15	Eyeliner for lips, eyes and eyebrows.
16	Makeup remover
17	Dentifrice
18	Mechanical hair removal device or epilator
19	Underarm deodorant
20	Deodorant cologne
21	Body deodorant
22	Foot deodorant
23	Mouthwash flavoring
24	Enamel, varnish, shine for nails
25	Strips for mechanical removal of impurities from the skin.
26	Nail strengthener
27	Pencil for lips, eyes and eyebrows
28	Moistened wipes for cleaning and/or personal hygiene.
29	Facial toner lotion
30	Simulated bronzing makeup
31	Facial and/or body makeup
32	Mascara
33	Eyebrow shaper and/or setting spray
34	Neutralizer for permanent wave and straightening treatments.
35	Air Freshener
36	Face powder
37	Anti-cellulite cosmetic preparations for the legs or for the body in general.
38	Mechanical exfoliating ("peeling") cosmetic preparations for the body and/or face.
39	Cosmetic preparations for nail hydration.
40	Cosmetic preparations for moisturizing, hydrating and/or refreshing the legs or the body in general.
41	Cosmetic preparations with anti-wrinkle action.
42	Cosmetic preparations for moisturizing, hydrating and/or refreshing the face, hands, and feet.
43	Anti-hair loss cosmetic preparations with rinse-off
44	Leave-in anti-hair loss cosmetic preparations
45	Rinse-off cosmetic preparations to repair, moisturize, hydrate and/or restore hair.
46	Cosmetic preparations for hair strengthening with rinsing.
47	Cosmetic preparations for hair strengthening without

		rinse	
		Leave-in cosmetic preparations for setting, styling, to facilitate or finish styling, repair, moisturize, hydrate, restore, protect hair from heat and/ or provide makeup.	
48			
		Personal hygiene preparations for cleaning and/or hygiene of the skin, provided that the instructions for use indicate that they should be removed after application, or that the product should be used with the aid of a device that allows for the mechanical removal of impurities.	
49			
50		<u>Eye area product</u>	
51		Products for bathing and/or immersion	
52		<u>Shaving products</u>	
53		<u>Product to prevent nail biting.</u>	
		Products for fixing and/or shaping facial hair, except eyebrows and eyelashes.	
54			
		Product for cleaning and/or hygiene or eyelash glue remover	
55			
		Product for cleaning and/or hygiene or nail glue remover	
56			
57		<u>Pre-shave products</u>	
58		<u>Aftershave products</u>	
59		Lip balm	
		Hair or wig glue remover for attaching hair to the scalp.	
60			
		Glue remover to promote the extension of hair strands attached to the scalp.	
61			
62		Nail polish remover	
63		Abrasive soap and/or mechanical exfoliator	
64		Deodorant soap	
65		Facial and/or body soap	
66		Nail polish dryer	
67		<u>Eye shadow</u>	
68		<u>Talc and/or powder</u>	
69		<u>Hair tonic or lotion</u>	
70		<u>Shampoo</u>	
71		<u>Shampoo conditioner</u>	
		Hydrogen peroxide for use on hair or body hair as a bleaching, developing, or oxidizing agent, except for those for medicinal use.	
72			
73	Products Grade 2	Cuticle softener caustic	
74		<u>Underarm antiperspirant</u>	
75		<u>Foot antiperspirant</u>	
76		Tanning activator or accelerator	

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77	Self-tanner or tanning simulator
78	Sunscreen
79	Skin lightener
80	Hair and/or body hair lightener or bleach.
81	Anti-cavity toothpaste
82	Anti-plaque toothpaste
83	Anti-tartar toothpaste
84	Whitening toothpaste
85	Toothpaste and mouthwash oral medication for people with sensitive teeth, provided it is not advertised as a treatment agent.
86	Chemical depilatory
87	Underarm antiperspirant deodorant
88	Foot antiperspirant deodorant
89	Antibacterial or antiseptic mouthwashes
90	Anti-plaque mouthwash
91	Chemical exfoliant ("peeling")
92	Antibacterial or antiseptic hand wipes
93	Antibacterial or antiseptic cosmetic preparations for the hands.
94	Cosmetic preparations indicated as personal protective equipment (PPE) for work.
95	Cosmetic preparations for skin with stretch marks.
96	Cosmetic preparations for skin and lips, with photoprotective action as an additional benefit, but not the main one (multifunctional).
97	Antibacterial or antiseptic shaving products
98	antibacterial products or antiseptics for pre-shave
99	Antibacterial or antiseptic aftershave products
100	Anti-dandruff hair products with rinse-out
101	Leave-in anti-dandruff hair products
102	Products intended for children.
103	Products intended for pregnant women.
104	Products intended for sensitive skin, provided they are not advertised as a treatment agent.
105	Products for straightening and dyeing hair
106	Hair straightening products
107	Products for cleaning and/or personal hygiene of immobilized people.
108	Products for intimate cleaning and/or hygiene, provided that they do not



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		claim antimicrobial action:	
109		Deodorant	
110		Soap	
111		Wet Wipes	
112		Products for curling hair	
113		Products for acne-prone skin	
114		Products for systems artificial nails	
115		Sunscreen	
116		Insect repellent	
117		Antibacterial soap or antiseptic	
118		Talcum powder or antibacterial or antiseptic deodorant	
119		Temporary, progressive, or permanent hair dye	
120		Body hair dye. (NR)	

**Table 5. EU Cosmetics product functions [34]**

Cosmetic Product Categories and Codes			
ID	Functions	Description	Reference
1	ABRASIVE	Removing unwanted tissue or foreign materials from various body surfaces, including mechanical tooth cleaning and/or gloss improvement.	34
2	ABSORBENT	Taking up water- and/or oil-soluble (dissolved or finely dispersed) substances.	
3	ADHESIVE	Tendency to unite/bind/bond surfaces together.	
4	ANTI-SEBORRHEIC	Preventing or relieving the symptoms of seborrhea and/or seborrheic dermatitis, including dandruff.	
5	ANTI-SEBUM	Helping control sebum production.	
6	ANTI-KING	Preventing agglomeration of particulate solids into lumps or hard masses (cohesive cake), thus allowing free flow of particles.	
7	ANTI-CORROSIVE	Preventing and or inhibiting the corrosion of the packaging material.	
8	ANTIFOAMING	Suppressing foam during manufacturing or reducing the tendency of finished products to generate foam.	
9	ANTIMICROBIAL	Preventing and/or slowing down microbial growth.	
10	ANTIOXIDANT	Inhibiting reactions promoted by oxygen, thus avoiding oxidation and rancidity.	
11	ANTIPERSPIRANT	Reducing perspiration.	
12	ANTI-PLAQUE	Helping protect against plaque.	
13	ANTISTATIC	Preventing and/or reducing static electricity by neutralizing electrical charge on surfaces.	
14	ASTRINGENT	Contracting and/or tightening the skin.	
15	BINDING	Providing adhesive properties during and after compression in cosmetic tablets and/or cakes.	

16	BLEACHING	Bleaching or lightening the shade of hair and/or skin.
17	BUFFERING	Stabilizing the pH of an aqueous medium in a narrow range even if an acid or base is added. Altering and/or maintaining a cosmetic product's pH at the desired level.
18	BULKING	Non-reactive (chemically inert), solid ingredients that dilute other solids and/or increase the volume of cosmetic products.
19	CHELATING	Forming complexes with metal ions which could affect the stability and/or appearance of cosmetics.
20	CLEANING	Helping to keep the body surface clean.
21	COLORANT	Exclusively or mainly intended to color the cosmetic product, the body as a whole or certain parts thereof, by absorption or reflection of visible light; (precursors of oxidative hair colorants shall be considered colorants).
22	DENATURANT	Rendering unpalatable cosmetics. Mostly added to cosmetics containing ethyl alcohol to make it unsuitable for ingestion.
23	DEODORANT	Reducing and/or elucidating unpleasant odor. Contributing against the formation of malodour on body surfaces.
24	DEPILATORY	Breaking down the mechanical strength of hair fibers so that they can be removed by mild scraping/ rubbing.
25	DETANGLING	Reducing or eliminating hair intertwining due to hair surface alteration or damage and, thus, helping combing.
26	DISPERSING NON-SURFACTANT	Facilitating the dispersion of solids in liquids. They function primarily by coating the solid through the process of adsorption, thus changing the surface characteristic of the suspended solid.
27	Emulsion Stabilizing	Helping the process of emulsification and improving emulsion stability and shelf-life.
28	EPILATING	Applied to the skin, and stripped off quickly to remove hair. With epilation the entire hair is removed from the follicle, whereas with epilating the hair is removed only to the surface of the skin.
29	EXFOLIATING	Initiating and/or accelerating removal of the layers of dead skin cells from the skin surface.
30	Eyelash Conditioning	Conditioning and enhancing the appearance of eyelashes. Improving the gloss or sheen of eyelashes, coating the eyelash hair to increase the appearance of its diameter and length, or helping with the separation of the eyelash hair.
31	FILM FORMING	Producing (upon application) a continuous film on the skin, hair or nails.
32	FLAVORING	Imparting taste and/or flavor to a cosmetic product.
33	FOAMING	Trapping numerous small bubbles of air or other gas within a small

		volume of liquid by modifying the <u>surface tension of the liquid</u> .	
34	FRAGRANCE	Imparting an odor or taste. Creating a perceivable pleasant smell and/or masking a bad smell.	
35	Gel Forming	Giving the consistency of a gel (a semi-solid preparation with some elasticity) to a <u>liquid preparation</u> .	
36	HAIR CONDITIONING	Enhancing the appearance and feel of hair. Leaving the hair easy to comb, supple, soft and shiny and/or impart volume, lightness, gloss, <u>texture, etc.</u>	
37	HAIR DYEING	Imparting color to hair. Hair dyeing preparations may be temporary, semi-permanent, permanent, depending on the length of time the colorant remains on the hair.	
38	HAIR FIXING	Allowing physical control of hair style.	
39	HAIR WASHING OR STRAIGHTENING	Modifying the chemical structure of the hair, allowing it to be set in the required style (permanent waves or hair <u>straightening</u> ).	
40	HUMECTANT	Retaining and/or preserving the <u>moisture in a product during use</u> .	
41	Keratolytic	Helping to eliminate the dead cells of the stratum corneum.	
42	LIGHT STABILIZER	Protecting the cosmetic product from deterioration effects of light.	
43	LYTIC	Helping to break down lipids, proteins, and polysaccharides into smaller components, usually by the <u>action of enzymes</u> .	
44	MOISTURIZING	Increasing the water content of the skin and keeping it soft and smooth.	
45	NAIL CONDITIONING	Improving and/or enhancing the cosmetic characteristics of the nail (moisturizing, increasing sheen, reducing brittleness and flaking, etc.).	
46	NAIL SCULPTING	Forming a hard structure that <u>resembles the nail plate</u> .	
47	NOT REPORTED	<u>No function currently reported</u>	
48	OCCLUSIVE	Preventing and/or slowing down the evaporation of water from the skin surface.	
49	OPACIFYING	Reducing transparency or <u>translucency of cosmetics</u> .	
50	ORAL CARE	Providing cosmetic effects to the oral cavity, eg cleansing, deodorising, <u>protecting</u> .	
51	Oxidising	Changing the chemical nature of another ingredient by adding oxygen (or <u>removing hydrogen</u> ).	
52	PEARLESCENT	Imparting a nacreous appearance to cosmetics.	
53	PERFUMING	Used for perfume and aromatic raw materials.	
54	PLASTICIZER	Softening and making supple synthetic polymers that otherwise could not be easily deformed, spread or <u>worked out</u> .	
55	CONDOM	Exclusively or mainly intended to inhibit the development of micro-organisms in the cosmetic product. All authorized preservatives are substances in the positive list of Annex V to the Cosmetics Regulation 1223/2009.	



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56	PROPELLANT	Generating pressure in an aerosol pack, expelling contents when the valve is opened. Some liquefied propellants can act as solvents.
57	REDUCING	Changing the chemical nature of another ingredient by adding hydrogen (or removing oxygen).
58	REFATTING	Replenishing the lipids of the hair or of the top layers of the skin.
59	REFRESHING	Imparting a pleasant freshness to the skin.
60	SKIN CONDITIONING	Maintaining the skin in good condition.
61	SKIN CONDITIONING EMOLLIENT	Acting as lubricants on the skin surface providing the skin with a soft and smooth appearance.
62	SKIN CONDITIONING HUMECTANT	Increasing the water content of the top layers of the skin. Humectants are primarily hygroscopic agents drawing moisture from the surrounding air.
63	SKIN CONDITIONING MISCELLANEOUS	Enhancing the appearance of dry and/or damaged skin by reducing flaking and restoring suppleness.
64	SKIN CONDITIONING OCCLUSIVE	Retarding the evaporation of Water from the skin surface. Occlusives are generally lipids which tend to remain on the skin surface and thus increase the water content of skin.
65	SKIN PROTECTING	Helping to avoid harmful effects to the skin from external factors.
66	SLIP MODIFIER	Enhancing the flow properties of other ingredients without reacting chemically with them.
67	SMOOTHING	Seeking to achieve an even skin surface by decreasing roughness or irregularities.
68	SOLVENT	Dissolving other components of cosmetics. Solvents are usually liquids (aqueous and nonaqueous).
69	SOOTHING	Lightening discomfort of the skin or of the scalp.
70	SURFACE MODIFIER	Applied to other cosmetic components to make them more hydrophilic or hydrophobic, or to modify their physical/chemical properties (in some cases, surface modifiers may form a covalent bond with substrates).
71	SURFACTANT	Helping other ingredients that normally do not mix to dissolve or disperse in one another. Surfactants are also called a surface active agents as they lower the surface tension of water or reduce the interfacial tension between immiscible components.
72	Surfactant - Cleansing	Wetting body surfaces, emulsifying or solubilizing oils, and suspending soil (generally, such ingredients contribute to the foaming and lathering properties of cleansing products).
73	SURFACTANT - DISPERSING	Helping distribute an insoluble solid in a liquid phase.
74	SURFACTANT - EMULSIFYING	Helping suspensions or dispersions of liquids in a second liquid by reducing the surface tension of the substances to be emulsified.



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75	SURFACTANT - FOAM BOOSTING	Increasing foaming capacity and/ or stabilizing foams in general.
76	SURFACTANT - Hydrotrope	Enhancing the water solubility of another surfactant.
77	SURFACTANT - SOLUBILIZING	Helping another component (solute) to dissolve in a medium in which it is not normally Soluble.
78	TANNING	Darkening the skin with or without exposure to UV.
79	TONIC	Producing a feeling of well-being on skin and hair.
80	UV ABSORBER	Protecting the cosmetic product from the effects of UV-light.
81	UV FILTER	Exclusively or mainly intended to protect the skin and/or hair against certain UV radiation by absorbing, reflecting or scattering UV radiation. All authorized UV filters are substances in the positive list of Annex VI to the Cosmetics Regulation 1223/2009.
82	VISCOSITY CONTROLLING	Increasing or decreasing the viscosity (thickness) of cosmetics.
83	pH ADJUSTERS	Controlling the pH of cosmetic products.