

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] |

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| 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 | |
| Other eye makeup preparations | | | |
| 4 | Children's eye makeup preparations | Children's eyeshadows | |
| | | Other children's eye makeup | |
| 5 | Fragrance preparations | Colognes and toilet waters | |
| | | Perfumes | |
| | | Powders (dusting and talcum) (excluding aftershave talc) | |
| | | Other fragrance preparations | |
| 6 | Hair preparations (non-coloring) | 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 | |
| Other hair preparations | | | |
| 7 | Hair coloring preparations | Hair dyes and colors (all types requiring caution statement and patch test) | |

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

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| | | rinse | |
| 48 | | Leave-in cosmetic preparations for setting, styling, to facilitate or finish styling, repair, moisturize, hydrate, restore, protect hair from heat and/ or provide makeup. | |
| 49 | | 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. | |
| 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> | |
| 54 | | Products for fixing and/or shaping facial hair, except eyebrows and eyelashes. | |
| 55 | | Product for cleaning and/or hygiene or eyelash glue remover | |
| 56 | | Product for cleaning and/or hygiene or nail glue remover | |
| 57 | | <u>Pre-shave products</u> | |
| 58 | | <u>Aftershave products</u> | |
| 59 | | Lip balm | |
| 60 | | Hair or wig glue remover for attaching hair to the scalp. | |
| 61 | | Glue remover to promote the extension of hair strands attached to the scalp. | |
| 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> | |
| 72 | Products Grade 2 | Hydrogen peroxide for use on hair or body hair as a bleaching, developing, or oxidizing agent, except for those for medicinal use. | |
| 73 | | 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. | |

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| 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 | EPIILATING | 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 |

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| | | 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 straightening). |
| 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. |