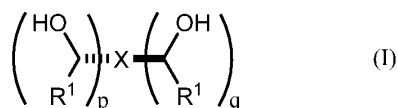


CLAIMS

1- A process for the preparation of a core-shell microcapsule slurry comprising the following steps:

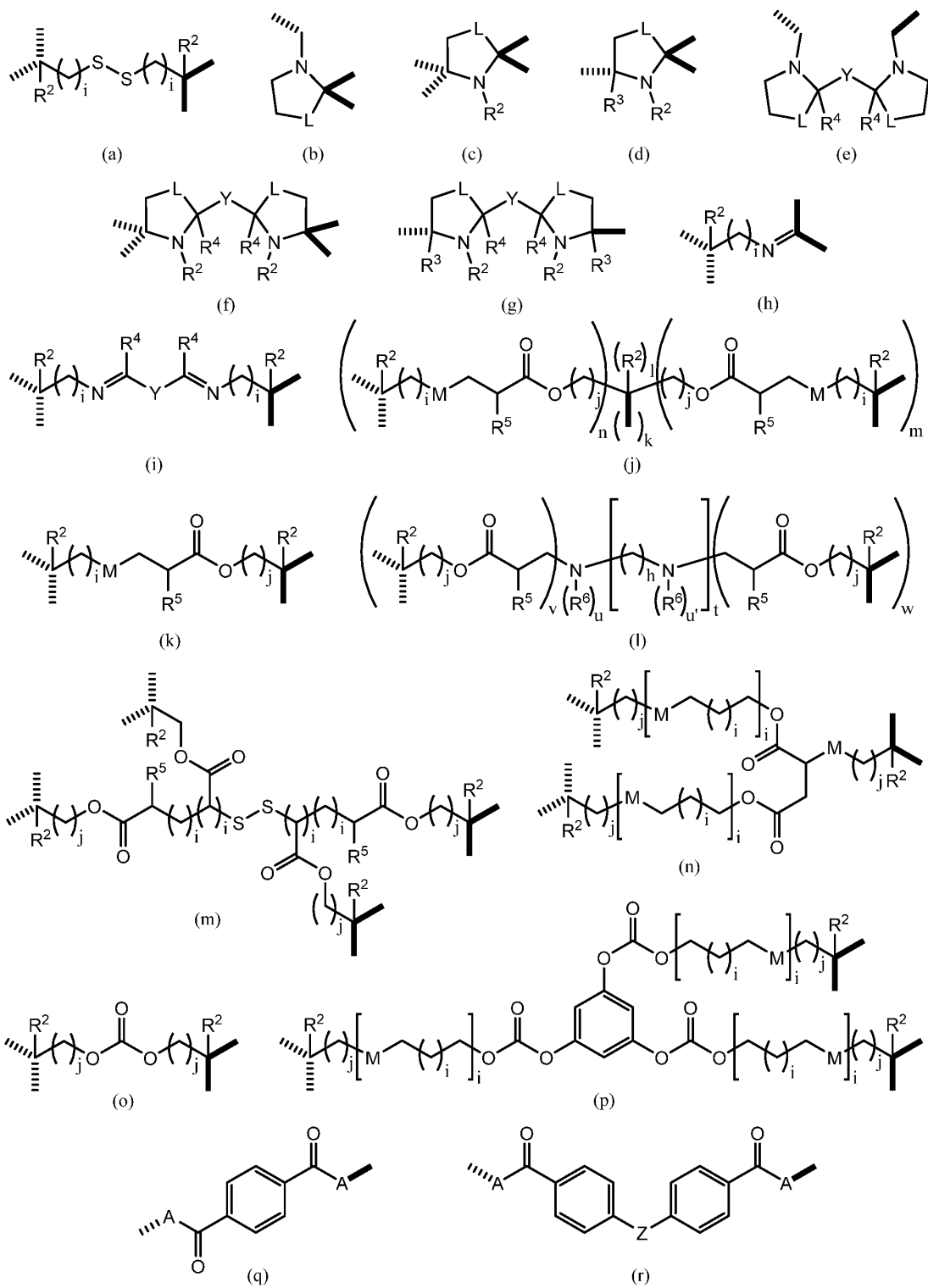
- 5 a) adding at least one polyfunctional monomer in a hydrophobic material, preferably a perfume, to form an oil phase;
- b) preparing a dispersing phase, wherein the dispersing phase is not miscible with the oil phase;
- c) adding the oil phase into the dispersing phase to form a two-phase dispersion;
- 10 d) optionally, adding a reactant to the dispersion obtained in step c); and
- e) performing a curing step to form core-shell microcapsules in the form of a slurry, wherein a stabilizer is added in step a) and/or step b), and wherein at least one cleavable multi-alcohol is added in step a) and/or in step b) and/or in step c) and/or in step d),
- 15 wherein the cleavable multi-alcohol has the following formula (I)



- wherein each R^1 is independently H or CH_2OH and wherein p and q are integers varying between 1 and 3, preferably p and q are either 1 or 2, and
- wherein X is a C_2 to C_{30} hydrocarbon group, possibly comprising one to ten heteroatoms, selected from O, S and N to form ether, ester, carboxylic acid, aldehyde, ketone, alcohol,
- 20 thiol, disulfide, thioether, thioester, carbamate, amide, oxime, imine, amine or nitrile functional groups.

- 2- The process according to claim 1, wherein X is a compound chosen from the group consisting of disulfides, oxazolidines, imines, 1,4-addition products, carbonates and aryl ketone derivatives.
- 25

- 3- The process according to claim 1 or 2, wherein X is selected from the group consisting of



- with L being a O or a S atom or a NH group, preferably a O atom, M being a S atom or a NR⁶ group, preferably a S atom, Y being a CH₂, a CH₂-CH₂ or a phenyl group, Z being a O(CH₂)_xO or a (CH₂)_x group with x being an integer varying between 1 and 4, and A being a COOCH₂(CR²R²)_i, CHR²OCH₂(CR²R²)_i or (CR²R²)(CHR²)_x group, with each R² being independently a H, CH₃, CH₂CH₃, CH₂OH or CH₂CH₂OH group and each R³ being independently a CH₃ or CH₂CH₃ group, with R⁴ being either H or CH₃ or, if Y is not phenyl group, then two R⁴ taken together may represent a CH₂ or a CH₂-CH₂ group, with R⁵ being either H or CH₃, with R⁶ being either H, a C₁-C₆ alkyl group or a CH₂-CH₂-(CH₂)_j-OH group, if t = 1 two R⁶ taken together might form a CH₂-CH₂-(CH₂)_i group, with h being an integer varying between 1 and 6, each i being individually of each other 0 or 1, each j being individually of each other an integer varying between 0 and 2, and with k and l being integers varying between 0 and 2, and m and n being 1 or 2, with the proviso that k + l + m + n = 4, with t, u and u' being 0 or 1, v and w being 1 or 2, and with the proviso that u + v + w = 3 (if t = 0) or u + u' + v + w = 4 (if t = 1), and wherein the hatched and the bold lines are either linked to a hydrogen atom or indicate the bond between said X and the (CHR¹OH)_p (hatched line) or (CHR¹OH)_q (bold line) groups of the multi-alcohol of formula (I), with the proviso that at least one hatched and at least one bold line of X are linked to a CHR¹OH group.
- 4- The process according to anyone of the preceding claims, wherein the cleavable multi-alcohol is a compound chosen from the group consisting of:
- disulfides chosen from the group consisting of 2,2'-disulfanediylbis(ethan-1-ol), 2,2'-disulfanediylbis(propene-1,3-diol), 3-(2,3-dihydroxypropyl)disulfanylpropene-1,2-diol, 2,2'-(disulfanediylbis(methylene))bis(2-methylpropene-1,3-diol) or 2,2'-(disulfanediylbis(methylene))bis(2-ethylpropene-1,3-diol), bis(3-hydroxy-2-(hydroxymethyl)-2-methylpropyl) 3,3'-disulfanediyl dipropionate, tetrakis(2-

- hydroxyethyl) 2,2'-disulfanediyl disuccinate, and/or
- oxazolidines chosen from the group consisting of (3-(2-hydroxyethyl)oxazolidine-2,2-diyl)dimethanol, oxazolidine-2,2,4-triyltrimethanol, 2,2'-(ethane-1,2-diylbis(2-methyloxazolidine-2,3-diyl))bis(ethan-1-ol), (ethane-1,2-diylbis(2-methyloxazolidine-2,4,4-triyl))tetramethanol, 2,2'-(1,4-phenylenebis(oxazolidine-2,3-diyl))bis(ethan-1-ol), 2,2'-(furan-2,5-diylbis(oxazolidine-2,3-diyl))bis(ethan-1-ol), 2,2'-(cyclohexane-1,4-diylbis(oxazolidine-2,3-diyl))bis(ethan-1-ol), 2,2'-(1,9-dioxo-4,12-diazadispiro[4.2.4⁸.2⁵]tetradecane-4,12-diyl)bis(ethan-1-ol), (1,4-phenylenebis(oxazolidine-2,4,4-triyl))tetramethanol, (1,9-dioxo-4,12-diazadispiro[4.2.4⁸.2⁵]tetradecane-3,3,11,11-tetrayl)tetramethanol, (1,9-dioxo-4,12-diazadispiro[4.2.4⁸.2⁵]tetradecane-3,11-diyl)dimethanol, (3,11-diethyl-1,9-dioxo-4,12-diazadispiro[4.2.4⁸.2⁵]tetradecane-3,11-diyl)dimethanol, (1,4-phenylenebis(4-ethyloxazolidine-2,4-diyl))dimethanol, (3,11-diethyl-1,9-dioxo-4,12-diazadispiro[4.2.4⁸.2⁵]tetradecane-3,11-diyl)dimethanol, 2,2'-(3,11-bis(hydroxymethyl)-1,9-dioxo-4,12-diazadispiro[4.2.4⁸.2⁵]tetradecane-4,12-diyl)bis(ethan-1-ol) and/or
 - imines and Schiff bases chosen from the group consisting of 2,2'-((1,4-phenylenebis(methanylylidene))bis(azanylylidene)) bis(propane-1,3-diol), 2,2'-((furan-2,5-diylbis(methanylylidene))bis(azanylylidene)) bis(propane-1,3-diol), and/or
 - 1,4-Addition products chosen from the group consisting of 2-hydroxyethyl 3-((2-hydroxyethyl)thio)propanoate, 3-hydroxy-2-(hydroxymethyl)-2-methylpropyl 3-((3-hydroxy-2-(hydroxymethyl)-2-methylpropyl)thio)-2-methylpropanoate, 3-hydroxy-2-(hydroxymethyl)-2-methylpropyl (S)-3-((2,3-dihydroxypropyl)thio)propanoate, 2-ethyl-2-(((3-((2-hydroxyethyl)thio)propanoyl)oxy)methyl)propane-1,3-diyl bis(3-((2-hydroxyethyl)thio)propanoate), 4-hydroxybutyl 3-((1,3-dihydroxypropan-2-yl)amino)propanoate, bis(2-hydroxyethyl) 3,3'-(butylazanediy) dipropionate, bis(2-hydroxyethyl) 3,3'-((4-hydroxybutyl)azanediy) dipropionate, bis(2-hydroxyethyl) 3,3'-(piperazine-1,4-diyl) dipropionate, tetrakis(2-hydroxyethyl) 3,3',3'',3'''-(propane-1,3-diylbis(azanetriyl)) tetrapropionate, bis(3-((2-hydroxyethyl)thio)propyl) 2-((2-hydroxyethyl)thio)succinate, and/or
 - carbonates chosen from the group consisting of bis(2,3-dihydroxypropyl) carbonate, bis(3-hydroxy-2-(hydroxymethyl)-2-methylpropyl) carbonate, benzene-1,3,5-triyl tris(3-

((2-hydroxyethyl)thio)propyl) tricarboxylate, and/or

- aryl ketone derivatives chosen from the group consisting of bis(2-hydroxyethyl) 2,2'-(methylenebis(4,1-phenylene))bis(2-oxoacetate), bis(2,2-bis(hydroxymethyl)butyl) 2,2'-(methylenebis(4,1-phenylene))bis(2-oxoacetate), bis(2-hydroxyethyl) 2,2'-(ethane-1,2-diylbis(4,1-phenylene))bis(2-oxoacetate), bis(3-hydroxy-2-(hydroxymethyl)-2-methylpropyl) 2,2'-(1,4-phenylene)bis(2-oxoacetate), 1,1'-(1,4-phenylene)bis(5-hydroxypentan-1-one), and mixtures thereof.

5- The process according to anyone of the preceding claims, wherein the polyfunctional monomer is chosen from the group consisting of at least one polyisocyanate, polyanhydride, polyacyl chloride, polyepoxide, polyacrylate monomers, polymethacrylate and polyalkoxysilane, and mixtures thereof.

6- The process according to anyone of the preceding claims, wherein the reactant is chosen from the group consisting of nitrogen nucleophile, sulfur nucleophile, enol carbon nucleophile, oxygen nucleophile, phosphor nucleophile and mixtures thereof.

7- The process according to claim 6, wherein the reactant is chosen from the group consisting of xylylene diamine, 1,2-diaminocyclohexane, 1,4-diaminocyclohexane, L-lysine, L-Lysine ethyl ester, O,O'-bis(2-aminopropyl) polypropylene glycol-block-polyethylene glycol-block-polypropylene glycol, ethylene diamine, 1,3-diamino-2-hydroxypropane, diethylene triamine, spermine, spermidine, cystamine, cystine, cystine dialkyl ester, aminoguanidine bicarbonate, N,N'-diethylethylenediamine, polyamidoamine (PAMAM), chitosan, 3-aminopropyltriethoxysilane, L-arginine, 1,3-diaminopropane, N-ethylguanidine sulfate, 1,6-diaminohexane, guanidine salts, N,N,N',N'-tetrakis(3-aminopropyl)-1,4-butanediamine, guanazole, 2-amino-1,3-propanediol, ethanolamine tris(2-aminoethyl)amine, tris(3-aminopropyl)amine, tris[2-(methylamino)ethyl]amine, 1-(2-Aminoethyl)piperazine, triethylenetetramine, triethanolamine, phthalic acid dipotassium salt, succinic acid disodium salt, dithiothreitol and mixtures thereof.

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8- The process according to anyone of the preceding claims, wherein the stabilizer is chosen from the group consisting of gum Arabic, modified starch, polyvinyl alcohol, polyvinylpyrrolidone, carboxymethylcellulose, anionic polysaccharides, acrylamide copolymer, inorganic particles, proteins and mixtures thereof.

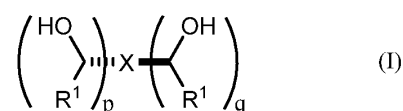
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9- A core-shell microcapsule comprising:

- an oil-based core comprising a hydrophobic material, preferably a perfume, and
- a shell comprising a reaction product between a polyfunctional monomer and a cleavable multi-alcohol, wherein the cleavable multi-alcohol has the following formula

10

(I)



wherein each R^1 is independently H or CH_2OH and wherein p and q are integers varying between 1 and 3, preferably p and q are either 1 or 2, and

15

wherein X is a C_2 to C_{30} hydrocarbon group, possibly comprising one to ten heteroatoms, selected from O, S and N to form ether, ester, carboxylic acid, aldehyde, ketone, alcohol, thiol, disulfide, thioether, thioester, carbamate, amide, oxime, imine, amine or nitrile functional groups.

10- The core-shell microcapsule according to claim 9, wherein the polyfunctional monomer is chosen from the group consisting of at least one polyisocyanate, polyanhydride, poly acyl chloride, polyepoxide, polyacrylate monomers, polymethacrylate and polyalkoxysilane, and mixtures thereof.

11- A perfuming composition comprising

- (i) Perfume microcapsule as defined in claims 10, wherein the hydrophobic material comprises a perfume,
- (ii) At least one ingredient selected from the group consisting of a perfumery carrier and a perfumery base
- (iii) Optionally at least one perfumery adjuvant.

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12- A consumer product comprising:

- a personal care active base, and
- microcapsules as defined in claim 10 or the perfuming composition as defined in claim 11,

5 wherein the consumer product is in the form of a personal care composition.

13- A consumer product comprising:

- a home care or a fabric care active base, and
- microcapsules as defined in claim 10 or the perfuming composition as defined in claim 11,

10 wherein the consumer product is in the form of a home care or a fabric care composition.