CLAIMS

1- A process for preparing a core-shell poly(amide-ester) microcapsule slurry comprising the following steps:

a) Dissolving at least one acyl chloride in a hydrophobic material, preferably a perfume to form an oil phase;

b) Dispersing the oil phase obtained in step a) into a water phase comprising an amino compound A to form an oil-in-water emulsion;

c) Adding to the oil-in-water emulsion obtained in step b) an amino compound B, and

d) Performing a curing step to form poly(amide-ester) microcapsule in the form of a slurry,

wherein a stabilizer is added in step a) and/or in step b),

wherein a polyol is added in step a) and/or in step b) and/or in step c),

wherein the amino compound A is chosen from the group consisting of L-Lysine, L-Lysine ethyl ester, guanidine carbonate, chitosan, 3-aminopropyltriethoxysilane and mixtures thereof,

wherein the amino compound B is chosen from the group consisting of cystamine, cystamine hydrochloride, cystine, cystine hydrochloride, cystine dialkyl ester, cystine dialkyl ester hydrochloride, a 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, diethylene triamine, spermine, spermidine, polyamidoamine (PAMAM), guanidine carbonate, chitosan, tris-(2-aminoethyl)amine, 3-aminopropyltriethoxysilane, L-arginine and mixtures thereof, and

wherein the amino-compound A and the amino-compound B are different.

2- The process according to claim 1, wherein the acyl chloride is chosen from the group consisting of 1,3,5-benzene tricarbonyl chloride, benzene-1,2,4-tricarbonyl trichloride, benzene-1,2,4,5-tetracarbonyl tetrachloride, cyclohexane-1,3,5-tricarbonyl trichloride, isophthalyol dichloride, diglycolyl dichloride, terphthaloyl chloride, succinic dichloride, and mixtures thereof.

3- The process according to claim 1 or claim 2, 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.

4- The process according to any one of the preceding claims, wherein the molar ratio between the functional groups NH_2 of the amino compound B and the functional groups COCl of the acyl chloride is comprised between 0.01 and 7.5.

5- The process according to any one of the preceding claims, wherein the weight ratio between acyl chloride and the hydrophobic material is comprised between 0.02 and 0.09.

6- The process according to any one of the preceding claims, wherein the polyol is chosen from the group consisting of triethanolamine, di(trimethylolpropane), ethylene glycol, glycerol, 1,4-butanediol, 1,2-hexanediol, 1,6-hexanediol, 2-ethyl-2-(hydroxymethyl)propane-1,3-diol (trimethylolpropane, TMP), 2,2-bis(hydroxymethyl)propane-1,3-diol (pentaerythritol), 2-amino-2-ethylpropane-1,3-diol, 2-amino-2-(hydroxymethyl)propane-1,3-diol, 2,2'-azanediylbis(ethan-1-ol), 2-aminopropane-1,3-diol, 2-amino-2-methylpropane-1,3-diol, polyphenols or mixtures thereof.

7- A poly(amide-ester) core-shell microcapsule comprising:

- an oil-based core comprising a hydrophobic material, preferably a perfume, and
- a poly(amide-ester) shell comprising

- optionally a stabilizer, preferably from 0% to 75% w/w of a stabilizer,
- an acyl chloride, preferably from 10% and 90% w/w of an acyl chloride,
- an amino compound A, preferably from 5% to 50% w/w of an amino compound A,
- an amino compound B, preferably from 1% to 40% w/w of an amino compound B, and
- a polyol, preferably from 1 to 60% w/w of a polyol,

based on the total weight of the shell,

wherein the amino compound A is chosen from the group consisting of L-Lysine, L-Lysine ethyl ester, guanidine carbonate, chitosan, 3-aminopropyltriethoxysilane and mixtures thereof,

wherein the amino compound B is chosen from the group consisting of cystamine, cystamine hydrochloride, cystine, cystine hydrochloride, cystine dialkyl ester, cystine dialkyl ester hydrochloride, a 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, diethylene triamine, spermine, spermidine, polyamidoamine (PAMAM), guanidine carbonate, chitosan, tris-(2-aminoethyl)amine, 3-aminopropyltriethoxysilane, L-arginine and mixtures thereof, and

wherein the amino-compound A and the amino-compound B are different.

8- A perfuming composition comprising

(i) Perfume microcapsule as defined in claim 7, 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, and

(iii)Optionally at least one perfumery adjuvant.

9- A consumer product comprising:

- a personal care active base, and
- microcapsules as defined in claim 7 or the perfuming composition as defined in claim 8,

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

10- A consumer product comprising:

- a home care or a fabric care active base, and
- microcapsules as defined in claim 7 or the perfuming composition as defined in claim 8,

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