

Claims

1. An encapsulated perfume composition comprising at least one core-shell microcapsule suspended in a suspending medium, wherein said at least one core-shell microcapsule comprises a core containing at least one perfume ingredient, and a shell surrounding or at least partially surrounding the core, wherein the shell comprises a thermosetting resin formed by the reaction of shell-forming materials selected from monomers, pre-polymers and/or pre-condensates, and wherein the encapsulated perfume composition comprises a polymeric stabilizer that is the reaction product of a polymeric surfactant and a silane containing a functional group capable of forming covalent bonds with the shell, wherein the polymeric surfactant is the reaction product of maleic anhydride and an olefinic monomer.
2. An encapsulated perfume composition according to claim 1, wherein the polymeric stabilizer is the reaction product of an aminosilane, and a co-polymer of an ethylenically unsubstituted compound and maleic anhydride.
3. An encapsulated perfume composition according to claim 1, wherein the polymeric stabilizer is a reaction product of 3-aminopropyltriethoxysilane, and at least one of i) a poly (ethylene-co-maleic anhydride) and ii) a poly (styrene-co-maleic anhydride).
4. An encapsulated perfume composition according to one of claims 1 to 3, wherein the shell is a thermosetting resin formed by the polycondensation of an alkylolated poly-functional amine and an aldehyde.
5. An encapsulated perfume composition according to one of claims 1 to 3, wherein the shell is a thermosetting resin formed by the reaction of a poly-functional amine and a poly-functional acrylate.
6. An encapsulated perfume composition according to one of claims 1 to 3, wherein the shell is a thermosetting resin formed by the reaction of a poly-functional amine and at least one isocyanate.
7. An encapsulated perfume composition according to claim 5, wherein the poly-functional amine is ethylene diamine, bis(2-aminoethyl)amine (CAS # 111-40-0), a di- or tri-amino-

substituted heterocycle selected from melamine (2,4,6-triamino-1,3,5-triazine), 3,5-diamino-1,2,4-triazole, 2,4-diamino-6-phenyl-1,3,5-triazine, 6-methyl-1,3,5-triazine-2,4-diamine, 1,2-phenylenediamine, 1,3-phenylenediamine or 1,4-phenylenediamine, or mixtures thereof.

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8. An encapsulated perfume composition according to claim 5 or 7, wherein the poly-functional acrylate is selected from the group consisting of pentaerythritol-tetraacrylate (PETA), pentaerythritol triacrylate (PETIA), 1,4-butanediol diacrylate (BDA-2), ethylene glycol dimethacrylate (EDGMA), trimethylolpropane triacrylate (TMPTA), hexane diol diacrylate(HDDA), ((2,4,6-trioxocyclohexane-1,3,5-triyl)tris(oxy))tris(ethane-2,1-diyl) triacrylate (TOCTA), Tris(2-acryloyloxyethyl) Isocyanurate, 1,3,5-triacryloylhexahydro-1,3,5-triazine (TAHHT), or mixtures thereof.
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9. An encapsulated perfume composition according to one of claims 1 to 8, wherein the at least one core-shell microcapsule is at least partially coated with a functional coating material.
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10. An encapsulated perfume composition according to claim 9, wherein the functional coating material is covalently bound to the shell of the at least one core-shell microcapsule.
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11. An encapsulated perfume composition according to claim 9 or 10, wherein the functional coating material is polymethylmethacrylate.
12. A method of preparing the above encapsulated perfume composition, the method comprising the steps of:
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 - a. Forming an oil-in-water emulsion comprising at least one perfume-containing oil droplet dispersed in an aqueous external phase, in the presence of a polymeric stabilizer as defined in any of the claims 1 to 3; and
 - 30 b. Causing the shell-forming materials present in the oil-in-water emulsion to react and form at the oil-water interface a thermosetting resin shell surrounding or at least partially surrounding said at least one oil droplet.
13. A method of preparing the above encapsulated perfume composition, comprising the steps of:
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- a. Forming an oil-in-water emulsion comprising at least one perfume-containing oil droplet dispersed in an aqueous external phase, in the presence of the polymeric stabilizer defined in any of the claims 1 through 3;
 - b. Causing shell-forming materials present in the oil-in-water emulsion to react, and form at the oil-water interface a thermosetting resin shell encapsulating said at least one oil droplet; and
 - c. at least partially coating the core-shell microcapsules with a functional coating material.
- 10 14. A method according to claim 12 or 13, wherein the polymeric stabilizer is generated *in-situ*.
- 15 15. A method according to claim 14, wherein the *in-situ* generation of the polymeric stabilizer is effected by the reaction of an amino-silane and a polymeric surfactant that is a co-polymer of an ethylenically unsubstituted compound and maleic anhydride, present in the oil-in-water emulsion.