

CLAIMS

1. A delivery system comprising a carrier and a perfume formulation,  
wherein the perfume formulation comprises
- 5       - 0 to 60 wt.% of a hydrophobic solvent (based on the total weight of the perfume formulation),
- 40 to 100 wt.% of a perfume oil (based on the total weight of the perfume formulation), wherein the perfume oil has at least two of the following characteristics:
- 10           ○ at least 35%, preferably 40%, preferably at least 50%, more preferably at least 60% of perfuming ingredients having a log P above 3, preferably above 3.5,
- at least 20%, preferably 25%, preferably at least 30%, more preferably at least 40% of Bulky materials of groups 1 to 6 as defined in the description,
- 15           ○ at least 15%, preferably at least 20%, more preferably at least 25% of high impact perfume materials having a Log T < -4,
- optionally, further hydrophobic active ingredients,  
wherein the perfume formulation is entrapped in the carrier.
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2. The delivery system according to claim 1, wherein the perfume oil has all of the following characteristics:
- at least 35%, preferably 40%, preferably at least 50%, more preferably at least 60% of perfuming ingredients having a log P above 3, preferably above
- 25           3.5,
- at least 20%, preferably 25%, preferably at least 30%, more preferably at least 40% of Bulky materials of groups 1 to 6 as defined in the description, preferably 3 to 6 and
- at least 15%, preferably at least 20%, more preferably at least 25% of high
- 30           impact perfume materials having a Log T < -4.
3. The delivery system according to claim 1 or 2, wherein the perfume oil and the hydrophobic solvent have at least two Hansen solubility parameters selected from a first group consisting of: an atomic dispersion force ( $\delta D$ ) from 12 to 20, a dipole moment ( $\delta P$ ) from 1 to 8, and a hydrogen bonding ( $\delta H$ ) from 2.5 to 11.
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4. The delivery system according to any one of claims 1 to 3, wherein the carrier is a biodegradable carrier.
5. The delivery system according to any one of any one of claims 1 to 4, wherein the carrier, preferably biodegradable carrier, has a biodegradability of at least 60%, preferably at least 65%, 70%, 75%, 80%, 85%, 90%, 95% or 98%, within 60 days according to OECD301F.
6. The delivery system according to any one of claims 1 to 5, wherein the delivery system is a core-shell capsule or wherein the delivery system is in a matrix form, preferably wherein the delivery system is a core-shell capsule.
7. The delivery system according to any one of claims 1 to 6, wherein the delivery system is a core-shell microcapsule comprising an oil-based core comprising the perfume formulation and a composite shell comprising a first material and a second material, wherein the first material and the second material are different, the first material is a coacervate, the second material is a polymeric material, preferably polyurea and/or polyurethane.
8. The delivery system according to any one of claims 1 to 6, wherein the delivery system is a core-shell microcapsule comprising
- an oil-based core comprising the perfume formulation
  - an inner shell made of a polymerized polyfunctional monomer; preferably a polyisocyanate having at least two isocyanate functional groups
  - a biopolymer shell comprising a protein, wherein at least one protein is cross-linked; wherein the protein contains preferably a mixture comprising sodium caseinate and a globular protein, preferably whey protein.
9. The delivery system according to any one of claims 1 to 6, wherein the delivery system is a core-shell microcapsule comprising
- an oil based core comprising the perfume formulation, and
  - a polyamide shell comprising:
    - an acyl chloride,
    - a first amino-compound being an amino-acid, preferably chosen in the group consisting of L-Lysine, L-Arginine, L-Histidine, L-Tryptophane and/or mixture thereof.

- a second amino.compound chosen in the group consisting of ethylene diamine, diethylene triamine, cystamine and/or mixture thereof, and
- a biopolymer chosen in the group consisting of casein, sodium caseinate, bovin serum albumin, whey protein, and/or mixture thereof.

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10. A perfuming composition comprising

- the delivery system according to any one of claims 1 to 9 and
- optionally, a free perfume oil.

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11. The perfuming composition according to claim 10, wherein the total amount of the delivery system is 0.05 to 5 wt.% (based on the total weight of the perfuming composition) and the total amount of the free perfume oil is 0.05 to 5 wt.% (based on the total weight of the perfuming composition).

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12. Perfuming composition according to any one of claims 10 and 11, wherein the total perfume oil of the perfume formulation entrapped in the delivery system and total free perfume oil are present in the perfuming composition in a weight ratio of 1:20 to 20:1, preferably 10:1 to 1:10.

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13. Perfumed consumer product comprising the delivery system according to any one of claims 1 to 9 or the perfuming composition according to any one of claims 10 to 12.

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14. Perfumed consumer product according to claim 13, wherein the perfumed consumer product is the perfumed consumer product is a fine perfume, a splash or eau de perfume, a cologne, a shave or after-shave lotion, a liquid or solid detergent, a mono or multi chamber unidose detergent, a fabric softener, a fabric refresher, liquid or solid scent-boosters (PEG / urea or salts), a dryer sheet, an ironing water, a paper, a bleach, a carpet cleaners, curtain-care products, a shampoo, a coloring preparation, a color care product, a hair shaping product, a dental care product, a disinfectant, an intimate care product, a hair spray, a hair conditioning product, a vanishing cream, a deodorant or antiperspirant, hair remover, tanning or sun product, nail products, skin cleansing, a makeup, a perfumed soap, shower or bath mousse, oil or gel, or a foot/hand care products, a hygiene product, an air freshener, a "ready to use" powdered air freshener, a mold remover, furnisher care, wipe, a dish detergent or hard-surface detergent, a leather care product, a car care product.

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15. Perfumed consumer product according to any one of claims 13 and 14, wherein the perfumed consumer product is a liquid or solid detergent, a fabric softener, liquid or solid scent-boosters (e.g. using PEG / urea or salts), a shampoo, a shower gel, a hair conditioning product (e.g. leave-on or rinse-off), a deodorant or antiperspirant.