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(54) Title: BENEFIT AGENT DELIVERY COMPOSITIONS

(57) Abstract: Benefit agent delivery compositions, compositions, packaged products and displays comprising such benefit agent delivery compositions, and processes for making and using such benefit agent delivery compositions, compositions, packaged products and displays. Such compositions have improved deposition and retention properties that may impart improved benefit characteristics to a composition and/or situs.

BENEFIT AGENT DELIVERY COMPOSITIONS

FIELD OF INVENTION

The present application relates to benefit agent delivery compositions, compositions,
5 packaged products and displays comprising such benefit agent delivery compositions, and
processes for making and using such benefit agent delivery compositions and compositions,
packaged products and displays comprising such benefit agent delivery compositions.

BACKGROUND OF THE INVENTION

10 Benefit agents, such as perfumes, brighteners, insect repellants, silicones, waxes, flavors,
vitamins and fabric softening agents, skin care agents are expensive and may be less effective
when employed at high levels in personal care compositions, cleaning compositions, and fabric
care compositions. As a result, there is a desire to maximize the effectiveness of such benefit
agents. One method of achieving such objective is to improve the delivery efficiencies of such
15 benefit agents. Unfortunately, it is difficult to improve the delivery efficiencies of benefit agents
as such agents may be lost do to the agents' physical or chemical characteristics, such agents may
be incompatible with other compositional components or the situs that is treated, or such agents
may be lost during post application processes such as rinsing or drying.

Accordingly, there is a need for a benefit agent delivery composition that provides
20 improved benefit agent delivery efficiency. While not being bound by theory, applicants believe
that the benefit agent delivery compositions disclosed herein meet such need as such
compositions have increased deposition and retention properties which result in the desired
increase in benefit agent delivery efficiency.

25 SUMMARY OF THE INVENTION

Benefit agent delivery compositions, compositions, packaged products and displays
comprising such benefit agent delivery compositions, and processes for making and using such
benefit agent delivery compositions, and compositions, packaged products and displays
comprising such benefit agent delivery compositions.

DETAILED DESCRIPTION OF THE INVENTION

Definitions

As used herein "consumer product" means baby care, beauty care, fabric & home care, family care, feminine care, health care, snack and/or beverage products or devices intended to be used or consumed in the form in which it is sold, and not intended for subsequent commercial manufacture or modification. Such products include but are not limited to diapers, bibs, wipes; products for and/or methods relating to treating hair (human, dog, and/or cat), including, bleaching, coloring, dyeing, conditioning, shampooing, styling; deodorants and antiperspirants; personal cleansing; cosmetics; skin care including application of creams, lotions, and other topically applied products for consumer use; and shaving products, products for and/or methods relating to treating fabrics, hard surfaces and any other surfaces in the area of fabric and home care, including: air care, car care, dishwashing, fabric conditioning (including softening), laundry detergency, laundry and rinse additive and/or care, hard surface cleaning and/or treatment, and other cleaning for consumer or institutional use; products and/or methods relating to bath tissue, facial tissue, paper handkerchiefs, and/or paper towels; tampons, feminine napkins; products and/or methods relating to oral care including toothpastes, tooth gels, tooth rinses, denture adhesives, tooth whitening; over-the-counter health care including cough and cold remedies, pain relievers, RX pharmaceuticals, pet health and nutrition, and water purification; processed food products intended primarily for consumption between customary meals or as a meal accompaniment (non-limiting examples include potato chips, tortilla chips, popcorn, pretzels, corn chips, cereal bars, vegetable chips or crisps, snack mixes, party mixes, multigrain chips, snack crackers, cheese snacks, pork rinds, corn snacks, pellet snacks, extruded snacks and bagel chips); and coffee.

As used herein, the term "cleaning and/or treatment composition" includes, unless otherwise indicated, granular or powder-form all-purpose or "heavy-duty" washing agents, especially cleaning detergents; liquid, gel or paste-form all-purpose washing agents, especially the so-called heavy-duty liquid types; liquid fine-fabric detergents; hand dishwashing agents or light duty dishwashing agents, especially those of the high-foaming type; machine dishwashing agents, including the various tablet, granular, liquid and rinse-aid types for household and institutional use; liquid cleaning and disinfecting agents, including antibacterial hand-wash types, cleaning bars, mouthwashes, denture cleaners, dentifrice, car or carpet shampoos, bathroom

cleaners; hair shampoos and hair-rinses; shower gels and foam baths and metal cleaners; as well as cleaning auxiliaries such as bleach additives and "stain-stick" or pre-treat types, substrate-laden products such as dryer added sheets, dry and wetted wipes and pads, nonwoven substrates, and sponges; as well as sprays and mists.

5 As used herein, the term "fabric care composition" includes, unless otherwise indicated, fabric softening compositions, fabric enhancing compositions, fabric freshening compositions and combinations thereof.

 As used herein, the term "amine" includes, unless otherwise indicated, primary, secondary, tertiary, and quaternary amines.

10 As used herein, the articles such as "a" and "an" when used in a claim, are understood to mean one or more of what is claimed or described.

 As used herein, the terms "include", "includes" and "including" are meant to be synonymous with the phrase "including but not limited to".

 As used herein, the term "solid" includes granular, powder, bar and tablet product forms.

15 As used herein, the term "situated" includes paper products, fabrics, garments, hard surfaces, hair and skin.

 Unless otherwise noted, all component or composition levels are in reference to the active portion of that component or composition, and are exclusive of impurities, for example, residual solvents or by-products, which may be present in commercially available sources of such components or compositions.

 All percentages and ratios are calculated by weight unless otherwise indicated. All percentages and ratios are calculated based on the total composition unless otherwise indicated.

 It should be understood that every maximum numerical limitation given throughout this specification includes every lower numerical limitation, as if such lower numerical limitations were expressly written herein. Every minimum numerical limitation given throughout this specification will include every higher numerical limitation, as if such higher numerical limitations were expressly written herein. Every numerical range given throughout this specification will include every narrower numerical range that falls within such broader numerical range, as if such narrower numerical ranges were all expressly written herein.

Benefit Agent Delivery Compositions

In one aspect, benefit agent delivery compositions comprising a benefit agent, a polymeric material and an optional cross-linker are disclosed.

Such benefit agent delivery compositions may comprise from about 5% to about 95%,
 5 from about 30% to about 85%, or even from about 40% to about 60% of a benefit agent; from about 5% to about 70%, from about 20 to about 60%, or even from about 30% to about 55% of a polymeric compound containing a carboxylic acid moiety; and from about 0% to about 50%, from about 0% to about 10%, or even from about 1% to about 7% by weight of a cross-linking agent.

10 Suitable benefit agents include silicones, enzymes, fragrances, perfumes, perfume raw materials, fragrance raw materials, deodorants, odor counteractants, malodors, essential oils, ethers, esters, ketones, alcohols, glycols, silicone hydrocarbons, cyclic hydrocarbons, aldehydes, terpenes, volatile or nonvolatile insecticides, volatile or nonvolatile insect repellants, volatile or nonvolatile pesticides, volatile or nonvolatile antimicrobial agents, volatile or nonvolatile
 15 fungicides, volatile or nonvolatile herbicides and mixtures thereof. In one aspect, the inclusion of volatile or nonvolatile acids is avoided to reduce the potential of the cross reaction of the acid with the cross-linker.

In one aspect, the benefit agent comprises a perfume raw material, a fragrance, a perfume, an essential oil, an insecticide, an insect repellent, a pesticide, a herbicide, an odorant, a malodor
 20 counteractant, an odor masking agent, a cooling agent, a vitamin, softening agent, a skin care agent, a silicone, a softening agent, an encapsulated perfume and combinations thereof.

In one aspect, the benefit agent comprises a fragrance and/or a perfume.

Useful perfume materials include materials selected from the group consisting of Table 1
 Perfumes, Table 2 Perfumes, Table 3 Perfumes and mixtures thereof.

25

Table 1 Perfumes

Number	Registry Name	Trade Name
1	Propanoic acid, ethyl ester	Ethyl Propionate
2	Acetic acid, 2-methylpropyl ester	Isobutyl Acetate
3	Butanoic acid, ethyl ester	Ethyl Butyrate
4	Butanoic acid, 2-methyl-, ethyl ester	Ethyl-2-Methyl Butyrate
5	2-Hexenal, (E)-	2-Hexenal
6	1-Butanol, 3-methyl-, acetate	Iso Amyl- Acetate

7	2-Buten-1-ol, 3-methyl-, acetate	Prenyl Acetate
8	2-Hexen-1-ol	Beta Gamma Hexenol
9	3-Hexen-1-ol	Beta Gamma Hexenol
10	Benzaldehyde	Benzaldehyde
11	3-Hexen-1-ol, acetate, (Z)-	Cis 3 Hexenyl Acetate
12	Benzoic acid, methyl ester	Methyl Benzoate
13	Benzeneacetaldehyde	Phenyl Acetaldehyde
14	Benzeneacetic acid, methyl ester	Methyl Phenyl Acetate
15	1,3-Dioxolane-2-acetic acid, 2-methyl-, ethyl ester	Fructose
16	Benzeneacetaldehyde, .alpha.-methyl-	Hydratropic Aldehyde
17	3-Cyclohexene-1-carboxaldehyde, 3,5-dimethyl-	Cyclal C,
18	Acetic acid, (2-methylbutoxy)-, 2-propenyl ester	Allyl Amyl Glycolate
19	Benzenemethanol, .alpha.-methyl-, acetate	Methyl Phenyl Carbinyl Acetate
20	Acetic acid, (3-methylbutoxy)-, 2-propenyl ester	Allyl Amyl Glycolate
21	Benzaldehyde, 4-methoxy-	Anisic Aldehyde
22	Benzeneacetic acid, ethyl ester	Ethyl Phenyl Acetate
23	2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)-	Laevo Carvone
24	Ethanol, 2,2'-oxybis-	Calone 161
25	Acetic acid, 2-phenylethyl ester	Phenyl Ethyl Acetate
26	Benzoic acid, 2-amino-, methyl ester	Methyl Anthranilate
27	4,7-Methano-1H-inden-6-ol, 3a,4,5,6,7,7a-hexahydro-, acetate	Flor Acetate
28	Octanal, 7-hydroxy-3,7-dimethyl-	Hydroxycitronellal
29	2(3H)-Furanone, 5-ethyl-dihydro-	Gamma Hexalactone
30	Phenol, 4-methyl-	Para Cresol
31	Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-, (1R)-	Camphor Gum
32	2H-Pyran, 3,6-dihydro-4-methyl-2-(2-methyl-1-propenyl)-	Nerol Oxide
33	Benzeneethanol, .beta.-methyl-	Hydratropic Alcohol
34	Benzeneethanol, .alpha.,.alpha.-dimethyl-	Dimethyl Benzyl Carbinol
35	Benzoic acid, 2-(methylamino)-, methyl ester	Dimethyl Anthranilate
36	2-Propenal, 3-phenyl-	Cinnamic Aldehyde
37	2-Propenoic acid, 3-phenyl-, methyl ester	Methyl Cinnamate
38	4H-Pyran-4-one, 2-ethyl-3-hydroxy-	Ethyl Maltol
39	Acetic acid ethyl ester	Ethyl Acetate
40	2-Heptanone	Methyl Amyl Ketone
41	Acetic acid, pentyl ester	Iso Amyl- Acetate
42	3-Octanone	Ethyl Amyl Ketone

43	2-Octanone	Methyl Hexyl Ketone
44	Heptenone, methyl-	Methyl Heptenone
45	1-Heptanol	Heptyl Alcohol
46	5-Hepten-2-one, 6-methyl-	Methyl Heptenone
47	Butanoic acid, 3-oxo-, ethyl ester	Ethyl Acetoacetate
48	Ethanol, 2-(2-methoxyethoxy)-	Veramoss Sps
49	Tricyclo[2.2.1.0 ^{2,6}]heptane, 1-ethyl-3-methoxy-	Neoproxen
50	Benzene, 1,4-dimethoxy-	Hydroquinone Dimethyl Ether
51	Carbonic acid, 3-hexenyl methyl ester, (Z)-	Liffarome
52	Oxirane, 2,2-dimethyl-3-(3-methyl-2,4-pentadienyl)-	Myroxide
53	Ethanol, 2-(2-ethoxyethoxy)-	Diethylene Glycol Mono Ethylether
54	Cyclohexaneethanol	Cyclohexyl Ethyl Alcohol
55	3-Octen-1-ol, (Z)-	Octenol Dix
56	3-Cyclohexene-1-carboxaldehyde, 3,6-dimethyl-	Cyclovertal
57	1,3-Oxathiane, 2-methyl-4-propyl-, cis-	Oxane
58	Acetic acid, 4-methylphenyl ester	Para Cresyl Acetate
59	Benzene, (2,2-dimethoxyethyl)-	Phenyl Acetaldehyde Dimethyl Acetal
60	Ethanone, 1-(4-methylphenyl)-	Para Methyl Acetophenone
61	Propanoic acid, phenylmethyl ester	Benzyl Propionate
62	Octanal, 7-methoxy-3,7-dimethyl-	Methoxycitronellal Pq
63	Linalool oxide	Linalool Oxide
64	2H-1-Benzopyran-2-one, octahydro-	Octahydro Coumarin
65	Benzenepropanal, .beta.-methyl-	Trifernal
66	4,7-Methano-1H-indenecarboxaldehyde, octahydro-	Formyltricyclodecan
67	2-Butanone, 4-phenyl-	Benzyl Acetone
68	Ethanone, 1-(4-methoxyphenyl)-	Para Methoxy Acetophenone
69	Benzoic acid, 2-hydroxy-, methyl ester	Methyl Salicylate USP
70	Propanenitrile, 3-(3-hexenyloxy)-, (Z)-	Parmanyl
71	1,4-Methanonaphthalen-5(1H)-one, 4,4a,6,7,8,8a-hexahydro-	Tamisone
72	Benzene, [2-(2-propenyloxy)ethyl]-	LRA 220
73	Benzenepropanol	Phenyl Propyl Alcohol
74	Ethanol, 2-phenoxy-	Phenoxyethanol
75	1H-Indole	Indole
76	1,3-Dioxolane, 2-(phenylmethyl)-	Ethylene Glycol Acetal/Phenyl Acetaldehy
77	2H-1-Benzopyran-2-one, 3,4-dihydro-	Dihydrocoumarin

In one aspect, suitable Table 1 perfume raw materials include perfume raw materials from number 1 to number 39 and mixtures thereof.

In one aspect, suitable Table 1 perfume raw materials include perfume raw materials from
5 number 1 to number 29 and mixtures thereof.

In one aspect, suitable perfume raw materials having boiling point less than or equal to 250° C and a ClogP greater than 2.5 are those materials listed in Table 2 below and such materials are defined as Table 2 perfume raw materials.

10 **Table 2 Perfumes**

Number	Registry Name	Trade Name
1	Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-methylene-	Camphene
2	Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene-, (1S)-	Beta Pinene
3	Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-	Alpha Pinene
4	Propanoic acid, pentyl ester	Amyl Propionate
5	1,6-Octadiene, 7-methyl-3-methylene-	Myrcene
6	Cyclohexene, 1-methyl-4-(1-methylethenyl)-	Dipentene
7	Cyclohexene, 1-methyl-4-(1-methylethenyl)-	Terpineolene
8	Acetic acid, hexyl ester	Hexyl Acetate
9	Cyclohexene, 1-methyl-4-(1-methylethylidene)-	Terpineolene
10	Benzene, 1-methoxy-4-methyl-	Para Cresyl Methyl Ether
11	1-Octen-3-ol, acetate	Amyl Vinyl Carbinyl Acetate
12	Octanal	Octyl Aldehyde
13	2-Oxabicyclo[2.2.2]octane, 1,3,3-trimethyl-	Eucalyptol
14	Butanoic acid, pentyl ester	Amyl Butyrate
15	Heptanoic acid, ethyl ester	Ethyl Oenanthate
16	5-Heptenal, 2,6-dimethyl-	Melonal
17	Hexanoic acid, 2-propenyl ester	Allyl Caproate
18	3-Cyclohexene-1-carboxaldehyde, dimethyl-	Ligustral
19	3-Hexene, 1-(1-ethoxyethoxy)-, (Z)-	Leaf Acetal

20	Octanal, 3,7-dimethyl-	Dihydrocitronellal
21	2-Octynoic acid, methyl ester	Methyl Heptine Carbonate
22	2-Nonenal	2 Nonen-1-al
23	1,6-Octadien-3-ol, 3,7-dimethyl-	Linalool
24	Benzoic acid, ethyl ester	Ethyl Benzoate
25	6-Octenal, 3,7-dimethyl-	Citronellal
26	Cyclohexanol, 1-methyl-4-(1-methylethyl)-	Dihydroterpineol
27	1-Hexanol, 3,5,5-trimethyl-, acetate	Iso Nonyl Acetate
28	3,5-Octadien-2-ol, 2,6-dimethyl-, (?Z)-	Muguel
29	Cyclohexanone, 5-methyl-2-(1-methylethyl)-, cis-	Iso Menthone
30	Heptanoic acid, 2-propenyl ester	Allyl Heptoate
31	Butanoic acid, 3-hexenyl ester, (Z)-	Cis 3 Hexenyl Butyrate
32	1,6-Octadien-3-ol, 3,7-dimethyl-, formate	Linalyl Formate
33	3-Cyclohexen-1-ol, 4-methyl-1-(1-methylethyl)-	Terpinenol
34	Bicyclo[2.2.1]heptan-2-ol, 1,3,3-trimethyl-	Fenchyl Alcohol
35	Cyclohexanol, 2-(1,1-dimethylethyl)-, cis-	Verdol
36	3-Octanol, 3,7-dimethyl-, acetate	Tetrahydro Linayl Acetate
37	Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, (1S-endo)-	Borneol Crystals
38	Decanal	Decyl Aldehyde
39	3-Cyclohexene-1-methanol, .alpha.,.alpha.,4-trimethyl-	Alpha Terpineol
40	Cyclohexanol, 5-methyl-2-(1-methylethyl)-	Menthol
41	3-Cyclohexene-1-carboxaldehyde, 2,4,6-trimethyl-	Iso Cyclo Citral
42	7-Octen-2-ol, 2,6-dimethyl-, acetate	Dihydro Terpinyl Acetate
43	2H-Pyran-2-one, 6-butyltetrahydro-	Nonalactone
44	3-Hepten-2-one, 3,4,5,6,6-pentamethyl-	Koavone
45	1,6-Nonadien-3-ol, 3,7-dimethyl-	Ethyl Linalool
46	4-Decenal, (E)-	Decenal (Trans-4)
47	Terpineol	Terpineol
48	7-Octen-2-ol, 2-methyl-6-methylene-, acetate	Myrcenyl Acetate
49	2-Butenoic acid, 2-methyl-, 3-hexenyl ester, (E,Z)-	Cis-3-Hexenyl Tiglate

50	1,6-Octadien-3-ol, 3,7-dimethyl-, acetate	Linalyl Acetate
51	Benzene, 1-methoxy-4-(1-propenyl)-, (E)-	Anethol Usp
52	2-Decenal	2 Decene-1-al
53	2,6-Octadienal, 3,7-dimethyl-	Citral
54	6-Octen-1-ol, 3,7-dimethyl-, formate	Citronellyl Formate
55	Cyclopentanone, 3-methyl-2-pentyl-	Jasmylone
56	Undecenal	Iso C-11 Aldehyde
57	6-Octen-1-ol, 3,7-dimethyl-	Citronellol
58	Cyclohexanemethanol, .alpha.,.alpha.,4-trimethyl-, acetate	Dihydro Terpinyl Acetate
59	3-Cyclohexene-1-methanol, .alpha.,.alpha.,4-trimethyl-, acetate	Terpinyl Acetate
60	2,6-Octadien-1-ol, 3,7-dimethyl-, formate, (E)-	Geranyl Formate
61	Bicyclo[2.2.1]heptan-2-ol, 1,3,3-trimethyl-, acetate	Fenchyl Acetate
62	Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, acetate, exo-	Iso Bornyl Acetate
63	2,6-Octadien-1-ol, 3,7-dimethyl-, (E)-	Geraniol
64	2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)-	Nerol
65	Cyclohexanol, 2-(1,1-dimethylethyl)-, acetate	Verdox
66	Undecanal, 2-methyl-	Methyl Nonyl Acetaldehyde
67	Undecanal	Undecyl Aldehyde
68	2H-Pyran-2-one, tetrahydro-6-pentyl-	Delta Decalactone
69	6-Octen-1-ol, 3,7-dimethyl-, acetate	Citronellyl Acetate
70	10-Undecenal	Intreleven Aldehyde Sp
71	2(3H)-Furanone, 5-hexyldihydro-	Gamma Decalactone
72	2,6-Octadien-1-ol, 3,7-dimethyl-, acetate, (E)-	Geranyl Acetate
73	2H-Pyran-2-one, tetrahydro-6-(3-pentenyl)-	Jasmolactone
74	Cyclohexanol, 5-methyl-2-(1-methylethyl)-, acetate,(1.alpha.,2.beta.,5.alpha.)-	Menthyl Acetate
75	2-Undecenal	2-Undecene-1-Al
76	2H-Pyran-2-one, tetrahydro-6-(2-pentenyl)-, (Z)-	Jasmolactone

77	2,6-Octadien-1-ol, 3,7-dimethyl-, acetate, (Z)-	Neryl Acetate
78	Benzeneethanol, .alpha.,.alpha.-dimethyl-, acetate	Dimethyl Benzyl Carbinyl Acetate
79	4,9-Decadienal, 4,8-dimethyl-	Floral Super
80	3-Octanol	Octanol-3
81	2-Heptanol, 2,6-dimethyl-	Dimethyl-2, 6-Heptan-2-ol
82	Propanoic acid, 2-methyl-, 1,3-dimethyl-3-butenyl ester	Iso Pentylate
83	3-Nonanone	Ethyl Hexyl Ketone
84	2,4,6-Octatriene, 2,6-dimethyl-	Allo-Ocimene
85	Bicyclo[2.2.1]heptane, 2-ethyl-5-methoxy-	Neoproxen
86	1-Octanol	Octyl Alcohol
87	3-Octanol, 3,7-dimethyl-	Linacsol
88	Propanoic acid, 2-methyl-, 3-hexenyl ester, (Z)-	Verdural B Extra
89	2H-Pyran, tetrahydro-4-methyl-2-(2-methyl-1-propenyl)-	Methyl Iso Butenyl Tetrahydro Pyran
90	Nonanal	Nonyl Aldehyde
91	Hexanoic acid, 2-methylpropyl ester	Iso Butyl Caproate
92	Cyclohexane, 3-ethoxy-1,1,5-trimethyl-	Herbavert
93	7-Octen-2-ol, 2-methyl-6-methylene-, dihydro deriv.	Dihydro Myrcenol
94	Ethanone, 1-(3,3-dimethylcyclohexyl)-	Herbac
95	Propanoic acid, 2,2-dimethyl-, hexyl ester	Hexyl Neo Pentanoate
96	3-Heptanone, 5-methyl-, oxime	Stemone
97	Isononanol	Iso Nonyl Alcohol
98	Cyclohexanone, 2-(1-methylpropyl)-	2-Sec-Butyl Cyclo Hexanone
99	Butanoic acid, 2-methyl-, hexyl ester	Hexyl-2-Methyl Butyrate
100	1-Nonanol	Nonyl Alcohol
101	Cyclohexaneethanol, acetate	Cyclohexyl Ethyl Acetate
102	1-Octanol, 3,7-dimethyl-	Dimethyl Octanol
103	Cyclopentanone, 2-pentyl-	Delphone
104	Cyclohexanemethanol, 4-(1-methylethyl)-, cis-	Mayol
105	6-Octen-1-ol, 3,7-dimethyl-, (S)-	Baranol
106	Benzaldehyde, 4-(1-methylethyl)-	Cuminic Aldehyde
107	Propanoic acid, 2-methyl-, phenylmethyl ester	Benzyl Iso Butyrate

108	Propanoic acid, 2-methyl-, 4-methylphenyl ester	Para Cresyl Iso Butyrate
109	Carbonic acid, 4-cycloocten-1-yl methyl ester	Violiff
110	1,6-Octadien-3-ol, 3,7-dimethyl-, propanoate	Linalyl Propionate
111	Cyclohexanemethanol, .alpha.-methyl-4-(1-methylethyl)-	Mugetanol
112	Butanoic acid, phenylmethyl ester	Benzyl Butyrate
113	4,7-Methano-1H-inden-5-ol, octahydro-, acetate	Dihydro Cyclacet
114	2-Cyclopenten-1-one, 3-methyl-2-pentyl-	Dihydrojasmone
115	Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, propanoate, exo-	Iso Bornyl Propionate
116	2,6-Octadienenitrile, 3,7-dimethyl-	Geranyl Nitrile
117	Benzene, ethenyl-	Styrene
118	Benzene, methyl(1-methylethyl)-	Cymene Coeur
119	Cyclohexanol, 3,3,5-trimethyl-, cis-	Trimethylcyclohexanol
120	1-Hexanol, 5-methyl-2-(1-methylethyl)-, (R)-	Tetrahydro Lavandulol
121	Cyclohexanol, 4-(1-methylethyl)-	Roselea
122	7-Octen-2-ol, 2,6-dimethyl-, formate	Dimyrcetol
123	Cyclohexanone, 5-methyl-2-(1-methylethyl)-, trans-	Menthone Racemic
124	1,3,5-Undecatriene	Galbanolene Super
125	5,7-Octadien-2-ol, 2,6-dimethyl-	Ocimenol
126	2-Cyclohexene-1-carboxylic acid, 2,6,6-trimethyl-, methyl ester	Methyl Cyclogeranate
127	Benzene, (2-bromoethenyl)-	Brom Styrol
128	Benzene, 1-methoxy-4-(2-propenyl)-	Methyl Chavicol
129	2H-Pyran, 6-butyl-3,6-dihydro-2,4-dimethyl-	Gyrane
130	Cyclohexanemethanol, .alpha.,3,3-trimethyl-, formate	Aphermate
131	Cyclohexanol, 4-(1,1-dimethylethyl)-	Patchon
132	Cyclohexanol, 5-methyl-2-(1-methylethyl)-, [1R-(1.alpha.,2.beta.,5.alpha.)]-	Menthol Natural
133	1,3-Dioxane, 2-butyl-4,4,6-trimethyl-	Herboxane
134	2-Nonynoic acid, methyl ester	Methyl Octine Carbonate
135	6-Octenenitrile, 3,7-dimethyl-	Baranyl Nitrile
136	Decanal, 2-methyl-	Methyl Octyl Acetaldehyde

137	2-Nonanol, 6,8-dimethyl-	Nonadyl
138	Phenol, 4-(1,1-dimethylethyl)-	Para Tertiary Butyl Phenol
139	1-Hexanol, 5-methyl-2-(1-methylethyl)-, acetate	Tetrahydro Lavandulyl Acetate
140	Cyclohexanol, 5-methyl-2-(1-methylethenyl)-, [1R-(1.alpha.,2.beta.,5.alpha.)]-	Iso Pulegol
141	Cyclohexanone, 4-(1,1-dimethylpropyl)-	Orivone
142	2-Undecanone	Methyl Nonyl Ketone
143	Cyclohexanemethanol, .alpha.,3,3-trimethyl-, acetate	Rosamusk
144	3-Cyclohexene-1-methanol, 2,4,6-trimethyl-	Isocyclogeraniol
145	2,6-Octadiene, 1,1-dimethoxy-3,7-dimethyl-	Citral Dimethyl Acetal
146	1-Decanol	Rhodalionone
147	2-Cyclohexen-1-one, 3-methyl-5-propyl-	Livescone
148	Phenol, 2-methyl-5-(1-methylethyl)-	Carvacrol
149	2-Naphthalenol, decahydro-	Trans Deca Hydro Beta Naphthol
150	Cyclohexanol, 4-(1,1-dimethylethyl)-, acetate	Tertiary Butyl Cyclohexyl Acetate
151	9-Decen-1-ol	Rosalva
152	Phenol, 5-methyl-2-(1-methylethyl)-	Thymol Nf
153	Cyclohexanol, 5-methyl-2-(1-methylethenyl)-, acetate, [1R-(1.alpha.,2.beta.,5.alpha.)]-	Iso Pulegol Acetate
154	Benzene, [(3-methylbutoxy)methyl]-	Iso Amyl Benzyl Ether
155	2(3H)-Furanone, 5-hexyldihydro-5-methyl-	Lactojasmon
156	Benzoic acid, butyl ester	Butyl Benzoate
157	Bicyclo[3.2.1]octan-8-one, 1,5-dimethyl-, oxime	Buccoxime
158	2-Cyclopenten-1-one, 2-methyl-3-(2-pentenyl)-	Iso Jasmone

In one aspect, suitable Table 2 perfume raw materials include perfume raw materials from number 1 to number 116 and mixtures thereof.

In one aspect, suitable Table 2 perfume raw materials include perfume raw materials from
5 number 1 to number 79 and mixtures thereof.

In one aspect, suitable perfume raw materials having boiling point greater than 250° C but less than or equal to 280° C are those materials listed in Table 3 below and such materials are defined as Table 3 perfume raw materials.

5 **Table 3. Perfumes**

Number	Registry Name	Trade Name
1	Dodecanenitrile	Clonal
2	Cyclohexanepropanoic acid, 2-propenyl ester	Allyl Cyclohexane Propionate
3	2-Buten-1-one, 1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-	Alpha Damascone
4	1,4-Cyclohexanedicarboxylic acid, diethyl ester	Fructalate
5	2(3H)-Furanone, 5-heptyldihydro-	Undecalactone
6	Naphthalene, 2-methoxy-	Beta Naphthol Methyl Ether
7	Benzenepropanal, 4-(1,1-dimethylethyl)-	Bourgeonal
8	3-Cyclopentene-1-butanol, .beta.,2,2,3-tetramethyl-	Brahmanol
9	1H-3a,7-Methanoazulen-6-ol, octahydro-3,6,8,8-tetramethyl-, [3R-(3.alpha.,3a.beta.,6.alpha.,7.beta.,8a.alpha.)]-	Cedrol
10	2-Propen-1-ol, 3-phenyl-, acetate	Cinnamyl Acetate
11	Benzenepropanal, .alpha.-methyl-4-(1-methylethyl)-	Cymal
12	2-Buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (Z)-	Damascone Beta
13	2-Buten-1-one, 1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-	Damascenone
14	2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-	Delta Damascone
15	Butanoic acid, 1,1-dimethyl-2-phenylethyl ester	Dimethyl Benzyl Carbonyl Butyrate
16	2-Dodecenal	2 Dodecene-1-al
17	2H-Pyran-2-one, 6-heptyltetrahydro-	Dodecalactone
18	Oxiranecarboxylic acid, 3-methyl-3-phenyl-, ethyl ester	Ethyl Methyl Phenyl Glycidate
19	Oxiranecarboxylic acid, 3-phenyl-, ethyl ester	Ethyl Phenyl Glycidate
20	Phenol, 2-methoxy-4-(2-propenyl)-	Eugenol
21	Benzenepropanal, .beta.-methyl-3-(1-methylethyl)-	Florhydral

22	Benzenepropanal, 2-ethyl-.alpha.,.alpha.-dimethyl-	Floralozone
23	4,7-Methano-1H-inden-6-ol, 3a,4,5,6,7,7a-hexahydro-, propanoate	Frutene
24	2,6-Octadienenitrile, 3,7-dimethyl-, (E)-	Geranyl Nitrile
25	1,3-Benzodioxole-5-carboxaldehyde	Heliotropin
26	Ionone	Ionone Ab
27	3-Buten-2-one, 4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-, (E)-	Ionone Alpha
28	3-Buten-2-one, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-	Ionone Beta
29	3-Buten-2-one, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (E)-	Ionone Beta
30	3-Buten-2-one, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-	Ionone Gamma Methyl
31	2-Buten-1-one, 1-(2,4,4-trimethyl-2-cyclohexen-1-yl)-, (E)-	Isodamascone N
32	Phenol, 2-methoxy-4-(1-propenyl)-	Iso Eugenol
33	2H-Pyran-4-ol, tetrahydro-3-pentyl-, acetate	Jasmal
34	Bicyclo[3.1.1]hept-2-ene-2-ethanol, 6,6-dimethyl-, acetate	Nopyl Acetate
35	Benzenepropanol, .alpha.,.alpha.-dimethyl-, acetate	Phenyl Ethyl Dimethyl Carbinyl Acetate
36	Propanoic acid, 2-methyl-, 3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-	Cyclabute
37	Benzaldehyde, 4-hydroxy-3-methoxy-	Vanillin
38	3-Cyclohexene-1-carboxaldehyde, 1-methyl-4-(4-methylpentyl)-	Vernaldehyde
39	Benzenemethanol, ar-methoxy-, acetate	Anisyl Acetate
40	Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 3-(1-methylethyl)-, ethyl ester, (2-endo,3-exo)-	Herbanate Ci
41	Butanoic acid, 3-methyl-, 2-phenylethyl ester	Beta Phenyl Ethyl Isovalerate
42	Benzenepropanal, 4-methoxy-.alpha.-methyl-	Canthoxal
43	Bicyclo[7.2.0]undec-4-ene, 4,11,11-trimethyl-8-methylene-, [1R-(1R*,4E,9S*)]-	Caryophyllene Extra
44	Cyclohexenebutanal, .alpha.,2,2,6-tetramethyl-	Cetonal
45	2-Propen-1-ol, 3-phenyl-	Cinnamic Alcohol
46	6-Octen-1-ol, 3,7-dimethyl-, propanoate	Citronellyl Propionate

47	Propanoic acid, decyl ester	N-Decyl Propionate
48	Phenol, 2-methoxy-4-propyl-	Dihydro Eugenol
49	Cyclohexanol, 1-ethenyl-2-(1-methylpropyl)-, acetate	Dihydro Ambrate
50	2-Propenoic acid, 3-phenyl-, ethyl ester	Ethyl Cinnamate
51	Butanoic acid, 3,7-dimethyl-2,6-octadienyl ester, (E)-	Geranyl Butyrate
52	2-Octanol, 8,8-dimethoxy-2,6-dimethyl-	Hydroxycitronellal Dimethyl Acetal
53	Cyclohexadieneethanol, 4-(1-methylethyl)-, formate	Iso Bergamate
54	Dodecanal	Lauric Aldehyde
55	Propanoic acid, 2-methyl-, 1-ethenyl-1,5-dimethyl-4-hexenyl ester	Linalyl Iso Butyrate
56	Benzenepropanol, .beta.,.beta.,3-trimethyl-	Majantol
57	Benzene, 1,2-dimethoxy-4-(2-propenyl)-	Methyl Eugenol
58	Propanoic acid, 2-methyl-, 2-phenylethyl ester	Phenyl Ethyl Iso Butyrate
59	2-Propenenitrile, 3-phenyl-	Cinnamalva
60	Benzene, [2-(1-propoxyethoxy)ethyl]-	Acetal R
61	9-Undecenal, 2,6,10-trimethyl-	Adoxal
62	2-Naphthalenol, 1,2,3,4,4a,5,6,7-octahydro-2,5,5-trimethyl-	Ambrinol 20t
63	2-Naphthalenol, octahydro-2,5,5-trimethyl-	Ambrinol 20t
64	Ethanol, 2-[(1,7,7-trimethylbicyclo[2.2.1]hept-2-yl)oxy]-, exo-	Arbanol
65	1H-2-Benzopyran, 3,4,4a,5,8,8a(or 3,4,4a,7,8,8a)-hexahydro-3,3,6,7-	Bigarade Oxide
66	Cyclohexene, 4-(1,5-dimethyl-4-hexenylidene)-1-methyl-	Bisabolene
67	1H-3a,7-Methanoazulene, octahydro-6-methoxy-3,6,8,8-tetramethyl-, [3R-(3.alpha.,3a.beta.,6.alpha.,7.beta.,8a.alpha.)]-	Cedramber
68	Phenol, 4-chloro-3,5-dimethyl-	4-Chloro 3,5 Xylenol
69	2,6-Octadiene, 1,1-diethoxy-3,7-dimethyl-	Citrathal
70	Acetaldehyde, [(3,7-dimethyl-6-octenyl)oxy]-	Citronellyl Oxyacetaldehyde
71	Benzenepropanenitrile, .alpha.-ethenyl-.alpha.-methyl-	Citrowanil B
72	Cyclohexanol, 2-(1,1-dimethylpropyl)-, acetate	Coniferan

73	2H-1-Benzopyran-2-one	Coumarin
74	1,3-Nonanediol, monoacetate	Diasmol
75	Benzene, 1,1'-methylenebis-	Diphenyl Methane
76	Benzene, 1,1'-oxybis-	Diphenyl Oxide
77	1,6-Octadiene, 3-(1-ethoxyethoxy)-3,7-dimethyl-	Elinthal
78	Cyclopentanone, 2-heptyl-	Fleuramone
79	5,8-Methano-2H-1-benzopyran-2-one, 6-ethylideneoctahydro-	Florex
80	Octanoic acid, 2-acetyl-, ethyl ester	Gelsone
81	Indeno[1,2-d]-1,3-dioxin, 4,4a,5,9b-tetrahydro-	Indoflor Crist.
82	Benzeneacetic acid, 2-methylpropyl ester	Iso Butyl Phenylacetate
83	2,6-Nonadienenitrile, 3,7-dimethyl-	Lemonile
84	3-Decanone, 1-hydroxy-	Methyl Lavender Ketone
85	Undecane, 1,1-dimethoxy-2-methyl-	Methyl Nonyl Acetaldehyde Dimethyl Aceta
86	1-Propanone, 1-[2-methyl-5-(1-methylethyl)-2-cyclohexen-1-yl]-	Nerone
87	5,9-Undecadienal, 2,6,10-trimethyl-	Oncidal
88	Quinoline, 6-methyl-	Para Methyl Quinoline
89	Propanoic acid, 2-methyl-, 2-phenoxyethyl ester	Phenoxy Ethyl Iso Butyrate
90	Ethanol, 2-phenoxy-, propanoate	Phenoxy Ethyl Propionate Formerly N-225
91	4,7-Methano-1H-indene-2-carboxaldehyde, octahydro-5-methoxy-	Scentenal
92	9-Undecen-2-one, 6,10-dimethyl-	Tetra Hydro Psuedo Ionone
93	Benzenemethanol, .alpha.-(trichloromethyl)-, acetate	Trichloromethyl Phenyl Carbinyl Acetate
94	Phenol, 2-methoxy-4-(methoxymethyl)-	Vaniwhite
95	Bicyclo[2.2.2]oct-5-ene-2-carboxaldehyde, 6-methyl-8-(1-methylethyl)-	Maceal
96	Benzene, [2-(3-methylbutoxy)ethyl]-	Phenyl Ether Isamyl Ether (Aka Anther)
97	2-Cyclohexene-1-carboxylic acid, 2,3,6,6-tetramethyl-, ethyl ester	Givescone

In one aspect, suitable Table 3 perfume raw materials include perfume raw materials from number 1 to number 58 and mixtures thereof.

In one aspect, suitable Table 3 perfume raw materials include perfume raw materials from number 1 to number 39 and mixtures thereof.

In one aspect, suitable perfume raw materials may be selected from the group consisting of 4-methoxybenzaldehyde; 4-phenylbutan-2-one; 3,7-dimethyl-2-methylene-6-octenal; 4-(2,6,6-trimethyl cyclohex-1-ene-1-yl) but-3-ene-2-one; 2,4-dimethylcyclohex-3-ene-1-carbaldehyde; 2-methyl-3-(para iso propylphenyl)propionaldehyde; 2-Buten-1-one, 1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-; 1-cyclohexyl-ethylene-crotonate; 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one; 3-methyl cyclopentadecenone; 4-(2,6,6-trimethyl-1-cyclohexenyl)butan-2-one; 2,5-Dimethyl-2-octen-6-one; dihydro-nor-cyclopentadienyl acetate; 3-(o-(and p-)ethylphenyl)-2,2-dimethylpropionaldehyde; 3-(3-isopropylphenyl) butanal; 3-Buten-2-one, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-; alpha-methyl-3,4(methylenedioxy)hydrocinnamaldehyde; n-hexyl ortho hydroxy benzoate; 7-acetyl-1,2,3,4,5,6,7,8-octahydro-1,1,6,7,tetramethyl naphthalene; 4-(1-Ethoxyvinyl)-3,3,5,5-tetramethyl-cyclohexan-1-one; 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)-; 2,4-Dimethyl-3-cyclohexene-1-carboxaldehyde; 3,7-dimethyl-1,6-octadien-3-ol; 2,6-Dimethyl-5-Heptenal; Methyl Dihydro Jasmonate; Methyl Nonyl Acetaldehyde; 6,6-dimethoxy-2,5,5-trimethylhex-2-ene; 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)-; Octaldehyde; 2-Cyclohexyl-1,6-heptadien-3-one and mixtures thereof.

Suitable polymeric materials may comprise at least two moieties each of which may be independently selected from the group consisting of carboxylic acid, hydroxyl, ester, amide, amine, nitrile and thiol moieties.

In one aspect, said polymeric compound comprises, per polymeric compound, at least two moieties selected from the moieties consisting of a carboxylic acid moiety, an amine moiety, a hydroxyl moiety, and a nitrile moiety. In one aspect, the polymeric material contains two or more carboxylic acid moieties on each polymeric molecule. In one aspect, polymeric materials may contain a backbone of polybutadiene, polyisoprene, polybutadiene/styrene, polybutadiene/acrylonitrile, carboxyl-terminated polybutadiene/acrylonitrile or combinations thereof. In another aspect, suitable polymeric materials encompass amine terminated, epoxy terminated, or vinyl terminated polymers. Suitable molecular weights for these polymers range from about 1,000 to about 10,000,000. In one aspect, the suitable polymers may have molecular weights that range from about 1,000 to about 10,000,000 or from about 2,000 to about 50,000. Suitable polymeric materials are available from NOVEON (Cleveland, Ohio U.S.A) and

SARTOMER (Philadelphia, Pennsylvania U.S.A.). Such materials include HYCAR® materials CTB 2000x162, CTBNX 1300x18, CTBNX 1300x9, CTBN 1300x8, CTBN 1300x31, ATB 2000x173, ATBN 1300x21, ATBN 1300x16, ATBN 1300x45, ATBN 1300x35, ATBN 1300x42, VTB 2000x168, VTBNX1300x33, VTBNX1300x43, ETBN 1300x40, and ETBN 1300x44 from
5 NOVEON or Emerald Performance Materials of Cuyahoga Falls, Ohio U.S.A. and Krasol® LBH 5000 from SARTOMER.

In one aspect, the benefit delivery composition may comprise a cross-linker. In any aspect, such cross-linker may provide covalent cross-linking and/or ionic cross-linking. In one aspect, the benefit agent delivery composition comprises a cross-linker at a concentration similar
10 to the equivalence of the polymeric material. In one aspect, the equivalence ratio of cross-linker equivalence to the carboxylic acid equivalence within the composition is from about 0.5 to about 2.0. In one aspect, the equivalence ratio is from about 0.8 to about 1.2. The cross-linker can be any material that provides cross-linking when placed in the presence of the carboxylic acid containing polymer. Suitable cross-linkers include polyamines, epoxides and
15 polycarbodiimides. In one aspect, the polycarbodiimide cross-linker compound may be ZOLDINE™ XL-29SE manufactured by Angus Chemical Company, a subsidiary of the Dow Chemical Company of Midland, Michigan U.S.A. In one aspect, polyamines may comprise diethylenetriamine, polyethyleneimines, polyvinylamines, and/or ethylene diamine moieties.

In one aspect, the crosslinker comprises a polyamine that may comprise
20 diethylenetriamine, ethylene diamine, polyethyleneimine, polyvinylamine, bis(3-aminopropyl)piperazine, N,N-Bis-(3-aminopropyl)methylamine, tris(2-aminoethyl)amine or mixtures thereof.

Suitable polyamines include Lupasol® WF, SK, PS, PO100, P, HF, G500, G35, G20 water free, G20, G100, FG, FC, and PR8515 products supplied by BASF of Ludwigshaven,
25 Germany.

Other materials may be added to the benefit agent delivery compositions disclosed herein. For example, colorants can be added to such benefit agent delivery compositions including dyes and pigments. The colorant may be one or more oil soluble dyes. Such dyes may be added to the benefit agent prior to the formation of the benefit agent delivery compositions disclosed herein.
30 Antioxidants may be added to benefit agent delivery compositions disclosed herein. Such antioxidants may protect benefit agents, including fragrances from oxidation. Suitable

antioxidants include BHA supplied by Eastman Chemical Company of Kingsport Tennessee U.S.A. UV inhibitors can be added to benefit agent delivery compositions disclosed herein and may prevent discoloration. Suitable UV inhibitors include TINUVIN® commercial products supplied by Ciba® of Basel, Switzerland.

5 Other materials maybe added to the benefit agent delivery compositions disclosed herein are materials that will help to process the benefit agent delivery compositions like solvents, diluents, surfactants, fatty acids, polymers, suitable materials are diluents like benzylbenzoate, nonionic surfactants like TAE80, fatty acids like coconut oil, polymers like PEG4000.

In one aspect, the benefit agent delivery compositions of the present invention may be clear. However, such compositions may also be opaque. Such compositions can be made opaque
10 by the addition of opacifying agents. Suitable opacifying agents include titanium dioxide, zinc oxide, inorganic salts, waxes, water, and other organic opacifiers that are well known to those of skilled in the art.

Additional materials may be added to the benefit agent delivery compositions disclosed
15 herein. Such materials may or may not be volatile. Such materials include solvents, oils, esters, phthalates, fatty acids, triglycerides, ethers, oils, aliphatic materials, hydrocarbons, plasticizers, and alcohols. Such materials may or may not be hydrophilic. Suitable hydrophilic materials include water, glycols, and alcohols. In one aspect, surfactants may be added to the benefit agent delivery compositions disclosed herein. Suitable surfactants include nonionic, anionic, cationic,
20 and amphoteric surfactants--examples of which will be well known to those of skill in the art. The inclusion of surfactants may facilitate the inclusion of hydrophilic materials into the benefit agent delivery compositions disclosed herein.

Process of Making Benefit Agent Delivery Compositions

25 The benefit agent delivery compositions disclosed in the present application may be made via the teachings of USPA 2006/0067963 A1, and the examples disclosed herein.

The benefit agent containing compositions disclosed in the present application may be processed in accordance with the teachings of U.S. Patent Nos. 6,451,751 B1, 6,972,276 B1, 6,764,986 B1, 6,740,713 B1 and the examples disclosed herein. Suitable forms for such benefit
30 agent delivery compositions include, solids and fluids including agglomerates, emulsions, solutions, prills, beads and encapsulates. When employed to product a benefit agent delivery

composition the particle size of the benefit agent delivery composition in said agglomerates, emulsions, solutions, prills, beads and encapsulates may be from about 0.1 microns to about 100 microns, from about 1 micron to about 60 microns or even from about 5 to about 40 microns. In addition to the foregoing, the benefit agent delivery compositions of the present invention may be further processed in accordance with the teachings of published US Patent Application No. 2007/0196502 A1 to yield a particle wherein the benefit agent delivery composition comprises at least a portion or even all of one or more layers of the resulting particle.

In one aspect, a method for making a benefit agent delivery composition comprising:

- a.) mixing a first mixture, wherein said first mixture comprises: from about 15% to about 95% by weight of a volatile hydrophobic liquid; and from about 3% to about 40% by weight of a polymeric compound containing a carboxylic acid, until said first mixture is completely mixed; and mixing into said first mixture, from about 1.5% to about 40% by weight of a cross-linking agent; or
- b.) mixing a first mixture, wherein said first mixture comprises: from about 15% to about 95% by weight of a volatile hydrophobic liquid; and from about 3% to about 40% by weight of a polymeric compound containing a carboxylic acid, until said first mixture is completely mixed; and mixing into said first mixture, from about 0% to about 40% by weight of a cross-linking agent; or
- c.) mixing a first mixture, wherein said first mixture comprises: from about 15% to about 95% by weight of a volatile hydrophobic liquid; and from about 3% to about 40% by weight of a polymeric compound containing a carboxylic acid, until said first mixture is completely mixed; and mixing into said first mixture a second mixture, wherein said second mixture comprises: from 15% to about 95% by weight volatile hydrophobic liquid; and from about 1.5% to about 40% by weight of a cross-linking agent; or
- d.) combining from about 15% to about 95% by weight of a volatile hydrophobic liquid; and from about 3% to about 40% by weight of a polymeric compound containing a carboxylic acid, until said first mixture is completely mixed; and mixing into said first mixture, from about 0% to about 40% by weight of a cross-linking agent;

- e.) optionally combining the mixtures produced in a.), b.), c.) and/or d.) with a diluent and/or a surfactant; and/or further processing the mixtures produced in a.), b.), c.) and/or d.) to form a particle, bead and/or agglomerate

is disclosed.

5 In one aspect, the benefit agent delivery composition is pre-made and added to a consumer.

In one aspect the components of the benefit agent delivery composition are added separately to a consumer product and the benefit agent delivery composition may form in the consumer before, during and/or after use by the consumer.

10 In one aspect, when additional benefit agent(s) and/or benefit agent delivery system(s), for example perfume and/or encapsulated perfume, are employed to form a particle, bead and/or agglomerate, the benefit agent delivery composition of the present invention may be added before, during or after said additional benefit agent(s) and/or benefit agent delivery system(s) are added to said a particle, bead and/or agglomerate.

15 In one aspect, when additional benefit agent(s) and/or benefit agent delivery system(s), for example perfume and/or encapsulated perfume, are employed, the benefit agent delivery composition of the present invention may be added before, during or after said additional benefit agent(s) and/or benefit agent delivery system(s) are added to a consumer.

20 Suitable equipment for use in the processes disclosed herein may include continuous stirred tank reactors, homogenizers, turbine agitators, recirculating pumps, paddle mixers, ploughshear mixers, ribbon blenders, vertical axis granulators, twin screw extruders and drum mixers, both in batch and, where available, in continuous process configurations, spray dryers, and extruders. Such equipment can be obtained from Lodige GmbH (Paderborn, Germany), Littleford Day, Inc. (Florence, Kentucky, U.S.A.), Forberg AS (Larvik, Norway), Glatt Ingenieurtechnik GmbH (Weimar, Germany), Niro (Soeborg, Denmark), Hosokawa Bepex Corp. (Minneapolis, Minnesota, USA), Arde Barinco (New Jersey, USA), Wenger (Sabetha, Kansas USA).

Compositions Comprising Benefit Agent Delivery Compositions

30 Applicants' compositions comprise an embodiment of the benefit agent delivery compositions disclosed in the present application. In one aspect, such compositions may be a consumer product. While the precise level of benefit agent delivery composition that is employed depends on the type and end use of the product comprising such composition, a

products, including cleaning and/or fabric treatment products, may comprise, based on total product weight, from about 0.001% to about 25%, from about 0.01% to about 5%, or even from about 0.05% to about 3% benefit agent delivery composition.

In one aspect, a consumer product comprising at least one embodiment of a benefit agent delivery composition disclosed herein and a material selected from the group consisting of a surfactant, an enzyme, a polymer, a dye, a neat perfume, a perfume delivery system in addition to Applicants' benefit agent delivery system and mixtures thereof is disclosed. Suitable perfume delivery systems are described in published U.S. Patent Application No. 2007/0275866 A1

Aspects of the invention include the use of the benefit agent delivery compositions of the present invention in laundry detergent compositions (e.g., TIDE™), hard surface cleaners (e.g., MR CLEAN™), automatic dishwashing liquids (e.g., CASCADE™), dishwashing liquids (e.g., DAWN™), and floor cleaners (e.g., SWIFFER™). Non-limiting examples of cleaning compositions may include those described in U.S. Pat. Nos. 4,515,705; 4,537,706; 4,537,707; 4,550,862; 4,561,998; 4,597,898; 4,968,451; 5,565,145; 5,929,022; 6,294,514; 6,376,445, 7,169,741 B2 and 7,297,674 B2 as well as in U.S. Patent Application Publication No. 2005/0130864 A1. The cleaning compositions disclosed herein may be formulated such that, during use in aqueous cleaning operations, the wash water will have a pH of between about 5 and about 12, or between about 7.5 and 10.5. Liquid dishwashing product formulations typically have a pH between about 6.8 and about 9.0. Cleaning products are typically formulated to have a pH of from about 7 to about 12. Techniques for controlling pH at recommended usage levels include the use of buffers, alkalis, acids, etc., and are well known to those skilled in the art.

Fabric treatment compositions disclosed herein typically comprise a fabric softening active ("FSA"). Suitable fabric softening actives, include, but are not limited to, materials selected from the group consisting of quats, amines, fatty esters, sucrose esters, silicones, dispersible polyolefins, clays, polysaccharides, fatty oils, polymer latexes and mixtures thereof.

Adjunct Materials

While not essential for the purposes of the present invention, the non-limiting list of adjuncts illustrated hereinafter are suitable for use in the instant compositions and may be desirably incorporated in certain embodiments of the invention, for example to assist or enhance performance, for treatment of the substrate to be cleaned, or to modify the aesthetics of the

composition as is the case with perfumes, colorants, dyes or the like. It is understood that such adjuncts are in addition to the components that are supplied via Applicants' delivery particles and FSAs. The precise nature of these additional components, and levels of incorporation thereof, will depend on the physical form of the composition and the nature of the operation for which it is to be used. Suitable adjunct materials include, but are not limited to, surfactants, builders, chelating agents, dye transfer inhibiting agents, dispersants, enzymes, and enzyme stabilizers, catalytic materials, bleach activators, polymeric dispersing agents, clay soil removal/anti-redeposition agents, brighteners, suds suppressors, dyes, additional perfume and perfume delivery systems, structure elasticizing agents, thickeners/structurants, fabric softeners, carriers, hydrotropes, processing aids and/or pigments. In addition to the disclosure below, suitable examples of such other adjuncts and levels of use are found in U.S. Patent Nos. 5,576,282, 6,306,812 B1 and 6,326,348 B1 that are incorporated by reference.

As stated, the adjunct ingredients are not essential to Applicants' cleaning and fabric care compositions. Thus, certain embodiments of Applicants' compositions do not contain one or more of the following adjunct materials: bleach activators, surfactants, builders, chelating agents, dye transfer inhibiting agents, dispersants, enzymes, and enzyme stabilizers, catalytic metal complexes, polymeric dispersing agents, clay and soil removal/anti-redeposition agents, brighteners, suds suppressors, dyes, additional perfumes and perfume delivery systems, structure elasticizing agents, thickeners/structurants, fabric softeners, carriers, hydrotropes, processing aids and/or pigments. However, when one or more adjuncts is present, such one or more adjuncts may be present as detailed below:

Surfactants - The compositions according to the present invention can comprise a surfactant or surfactant system wherein the surfactant can be selected from nonionic and/or anionic and/or cationic surfactants and/or ampholytic and/or zwitterionic and/or semi-polar nonionic surfactants. The surfactant is typically present at a level of from about 0.1%, from about 1%, or even from about 5% by weight of the cleaning compositions to about 99.9%, to about 80%, to about 35%, or even to about 30% by weight of the cleaning compositions.

Builders - The compositions of the present invention can comprise one or more detergent builders or builder systems. When present, the compositions will typically comprise at least about 1% builder, or from about 5% or 10% to about 80%, 50%, or even 30% by weight, of said builder. Builders include, but are not limited to, the alkali metal, ammonium and

alkanolammonium salts of polyphosphates, alkali metal silicates, alkaline earth and alkali metal carbonates, aluminosilicate builders polycarboxylate compounds, ether hydroxypolycarboxylates, copolymers of maleic anhydride with ethylene or vinyl methyl ether, 1,3,5-trihydroxybenzene-2,4,6-trisulphonic acid, and carboxymethyl-oxysuccinic acid, the various alkali metal, ammonium and substituted ammonium salts of polyacetic acids such as ethylenediamine tetraacetic acid and nitrilotriacetic acid, as well as polycarboxylates such as mellitic acid, succinic acid, oxydisuccinic acid, polymaleic acid, benzene 1,3,5-tricarboxylic acid, carboxymethyl-oxysuccinic acid, and soluble salts thereof.

Chelating Agents - The compositions herein may also optionally contain one or more copper, iron and/or manganese chelating agents. If utilized, chelating agents will generally comprise from about 0.1% by weight of the compositions herein to about 15%, or even from about 3.0% to about 15% by weight of the compositions herein.

Dye Transfer Inhibiting Agents - The compositions of the present invention may also include one or more dye transfer inhibiting agents. Suitable polymeric dye transfer inhibiting agents include, but are not limited to, polyvinylpyrrolidone polymers, polyamine N-oxide polymers, copolymers of N-vinylpyrrolidone and N-vinylimidazole, polyvinylloxazolidones and polyvinylimidazoles or mixtures thereof. When present in the compositions herein, the dye transfer inhibiting agents are present at levels from about 0.0001%, from about 0.01%, from about 0.05% by weight of the cleaning compositions to about 10%, about 2%, or even about 1% by weight of the cleaning compositions.

Dispersants - The compositions of the present invention can also contain dispersants. Suitable water-soluble organic materials are the homo- or co-polymeric acids or their salts, in which the polycarboxylic acid may comprise at least two carboxyl radicals separated from each other by not more than two carbon atoms.

Enzymes - The compositions can comprise one or more detergent enzymes which provide cleaning performance and/or fabric care benefits. Examples of suitable enzymes include, but are not limited to, hemicellulases, peroxidases, proteases, cellulases, xylanases, lipases, phospholipases, esterases, cutinases, pectinases, keratanases, reductases, oxidases, phenoloxidases, lipoxygenases, ligninases, pullulanases, tannases, pentosanases, malanases, β -glucanases, arabinosidases, hyaluronidase, chondroitinase, laccase, and amylases, or mixtures

thereof. A typical combination is a cocktail of conventional applicable enzymes like protease, lipase, cutinase and/or cellulase in conjunction with amylase.

Enzyme Stabilizers - Enzymes for use in compositions, for example, detergents can be stabilized by various techniques. The enzymes employed herein can be stabilized by the presence
5 of water-soluble sources of calcium and/or magnesium ions in the finished compositions that provide such ions to the enzymes.

Catalytic Metal Complexes – Applicants' compositions may include catalytic metal complexes. One type of metal-containing bleach catalyst is a catalyst system comprising a transition metal cation of defined bleach catalytic activity, such as copper, iron, titanium,
10 ruthenium, tungsten, molybdenum, or manganese cations, an auxiliary metal cation having little or no bleach catalytic activity, such as zinc or aluminum cations, and a sequester having defined stability constants for the catalytic and auxiliary metal cations, particularly ethylenediaminetetraacetic acid, ethylenediaminetetra (methyl-ene phosphonic acid) and water-soluble salts thereof. Such catalysts are disclosed in U.S. patent 4,430,243.

15 If desired, the compositions herein can be catalyzed by means of a manganese compound. Such compounds and levels of use are well known in the art and include, for example, the manganese-based catalysts disclosed in U.S. patent 5,576,282.

Cobalt bleach catalysts useful herein are known, and are described, for example, in U.S. patents 5,597,936 and 5,595,967. Such cobalt catalysts are readily prepared by known
20 procedures, such as taught for example in U.S. patents 5,597,936, and 5,595,967.

Compositions herein may also suitably include a transition metal complex of a macropolycyclic rigid ligand - abbreviated as "MRL". As a practical matter, and not by way of limitation, the compositions and cleaning processes herein can be adjusted to provide on the order of at least one part per hundred million of the benefit agent MRL species in the aqueous
25 washing medium, and may provide from about 0.005 ppm to about 25 ppm, from about 0.05 ppm to about 10 ppm, or even from about 0.1 ppm to about 5 ppm, of the MRL in the wash liquor.

Suitable transition-metals in the instant transition-metal bleach catalyst include manganese, iron and chromium. Suitable MRL's herein are a special type of ultra-rigid ligand that is cross-bridged such as 5,12-diethyl-1,5,8,12-tetraazabicyclo[6.6.2]hexa-decane.

30 Suitable transition metal MRLs are readily prepared by known procedures, such as taught for example in WO 00/32601, and U.S. patent 6,225,464.

Suitable thickeners/structurants and useful levels of same are described in U.S. Patent Application Publication No. 2005/0130864 A1 and U.S. Patents Nos. 7,169,741 B2 and 7,297,674 B2.

5 Processes of Making and Using Compositions

The compositions of the present invention can be formulated into any suitable form and prepared by any process chosen by the formulator, non-limiting examples of which are described in U.S. 5,879,584; U.S. 5,691,297; U.S. 5,574,005; U.S. 5,569,645; U.S. 5,565,422; U.S. 5,516,448; U.S. 5,489,392; U.S. 5,486,303 all of which are incorporated herein by reference.

10

Method of Use

Compositions containing the benefit agent delivery composition disclosed herein can be used to clean or treat a situs *inter alia* a surface or fabric. Typically at least a portion of the situs is contacted with an embodiment of Applicants' composition, in neat form or diluted in a liquor, for
15 example, a wash liquor and then the situs may be optionally washed and/or rinsed. In one aspect, a situs is optionally washed and/or rinsed, contacted with a particle according to the present invention or composition comprising said particle and then optionally washed and/or rinsed. For purposes of the present invention, washing includes but is not limited to, scrubbing, and mechanical agitation. The fabric may comprise most any fabric capable of being laundered or
20 treated in normal consumer use conditions. Liquors that may comprise the disclosed compositions may have a pH of from about 3 to about 11.5. Such compositions are typically employed at concentrations of from about 500 ppm to about 15,000 ppm in solution. When the wash solvent is water, the water temperature typically ranges from about 5 °C to about 90 °C and, when the situs comprises a fabric, the water to fabric ratio is typically from about 1:1 to about
25 30:1.

Packaging Comprising Benefit Agent Delivery Compositions

In one aspect, packaging comprising the benefit agent delivery compositions is disclosed. Such packaging may be used to package a product such as a consumer product. The benefit
30 delivery compositions of the present invention may be adhered or attached any where on such packaging. Such packing may take any form including wrapping, or a container. In one aspect, a

benefit agent delivery composition disclosed herein may be adhered or attached to the exterior and/or the interior surface of such packaging. In one aspect, said packaging may comprise a container comprising a cap and said benefit agent delivery composition disclosed herein is adhered or attached to the exterior or interior surface of said cap.

5

Displays Comprising Benefit Agent Delivery Compositions

In one aspect, a display comprising the benefit agent delivery compositions is disclosed. Such display may be used to attract attention to, market and/or assist in whole or in part the sale of a product such as a consumer product. The benefit delivery compositions of the present invention may be adhered or attached any where on such display. Such display may take any form including posters, sales and/or marketing literature, or a container. In one aspect, a benefit agent delivery composition disclosed herein is adhered or attached to the exterior and/or the interior surface of such display.

15

EXAMPLES

While particular embodiments of the present invention have been illustrated and described, it would be obvious to those skilled in the art that various other changes and modifications can be made without departing from the spirit and scope of the invention. It is therefore intended to cover in the appended claims all such changes and modifications that are within the scope of this invention.

20

EXAMPLE 1:

Equal amounts a perfume composition and amine-terminated Hycar® ATBN1300X42 from Noveon are weighted and mixed for five minutes using a Ultra-Turrax as needed. The ingredients are put at 60°C in warm water bath for 1 hour before use/mixing. After mixing the mixture is put in a warm water bath at 60°C for ± 12 hours. A homogenous, viscous and sticky material is obtained.

25

In the same way as described above different ratios between the components can be used:

Weight %					
Perfume composition	40	50	60	70	80
Hycar ® 1300X42	60	50	40	30	20

EXAMPLE 2:

A mixture comprising 50% of a perfume composition, 40% of carboxyl-terminated Hycar®
 @1300X18 (CAS#0068891-50-9) from Noveon, (put at 60°C in warm water bath for 1 hour
 before mixing) and 10% of Lupasol® WF(CAS# 09002-98-6) from BASF (put at 60°C in warm
 5 water bath for 1 hour before mixing). Mixing is achieved by mixing for five minutes using a
 Ultra-Turrax T25 Basic equipment (from IKA). After mixing, the mixture is put in a warm water
 bath at 60°C for ± 12 hours. A homogenous, viscous and sticky material is obtained.

In the same way as described above different ratios between the components can be used:

Weight %					
Perfume composition	40	50	60	70	80
Lupasol® WF	12	10	8	6	4
Hycar® CTBN1300X18	48	40	32	24	16

10

Weight %								
Perfume composition	50	50	50	50	50	50	50	50
Lupasol® WF	2.5	5	7.5	10	12.5	15	17.5	20
Hycar® CTBN 1300X18	47.5	45	42.5	40	37.5	35	32.5	30

EXAMPLE 3:

A mixture comprising 50% of a perfume composition, 40% of carboxyl-terminated Hycar®
 CTBN 1300X18 from Noveon (put at 60°C in warm water bath for 1 hour before mixing) and
 15 10% of Lupasol® WF (CAS# 09002-98-6) from BASF (put at 60°C in warm water bath for 1
 hour before use) is formed.

Mixing is achieved by mixing for five minutes using a Ultra-Turrax T25 Basic equipment (from
 IKA). After mixing, the mixture is put in a warm water bath at 60°C for ± 12 hours. A
 homogenous, viscous and sticky material is obtained.

20

EXAMPLE 4

In a first step of the preparation the Lupasol® WF (CAS# 09002-98-6) from BASF 15% is used in combination with 35% of carboxyl-terminated Hycar® CTBN1300X18 and 17% of this polymer mix is diluted with 83% of Benzyl Benzoate to make a workable solution. The materials described above are put together, in the ratio's described above, in a glass jar at 80°C on a hot plate with stirring using a magnetic stirrer. Next the polymer premix is mixed with a perfume composition in a 1:1 ratio. This polymer – perfume mix is than added to a fabric enhancer composition.

10 **EXAMPLE 5:** Agglomeration of benefit agent delivery composition – perfume system for use in powder detergents:

Starting from any of Examples 1 to 3 as described above:

The resulting homogenous, viscous and sticky material is held at 60° for ±2 hours before starting the agglomeration process. Next, a mixture comprising 40% of the viscous, sticky sample and 15 60% of melted TAE80 is formed by combining and mixing with an Ultra-Turrax T25 Basic equipment (from IKA) for 5 to 10 minutes. Then, 1 part of the TAE80/sticky sample is very slowly added to 0.6 parts of light soda ash using a Braun kitchen robot to form agglomerates. The resulting agglomerates are then used in a powder detergent.

20 **EXAMPLE 6:** Liquid application:

Starting from any of Examples 1 to 3 as described above:

The resulting homogenous, viscous and sticky material is held at 60° for ±2 hours before starting the dilution process.

	Weight %				
Sticky sample	20	30	40	50	60
Benzyl benzoate or fatty acid	80	70	60	50	40

25 The viscous sticky material obtained as described in any of Examples 1- 3 above are mixed at different ratios for five minutes using an Ultra-Turrax T25 Basic equipment (from IKA), at the

levels listed in the table above, with benzyl benzoate before the resulting mixture is added to a liquid detergent.

Example 7 Different process manner of obtaining the consumer benefit delivery agent system.

5 Addition of the different ingredients without premixing of the materials:

The following are mixed without premixing/premixtures being formed.

Weight %				
Perfume composition	40	50	60	70
Lupasol® wf Via premix in H ₂ O (50%/50%)	12	10	8	6
Hycar® CTBN 1300X18 Via premix in Benzyl Benzoate (20%/80% Benzyl Benzoate)	48	40	32	24

EXAMPLE 8

10 Non-limiting examples of product formulations containing a benefit agent delivery composition are summarized in the following table.

(%wt)	EXAMPLES									
	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX
FSA ^a	14	16.47	14	12	12	16.47	---	---	5	5
FSA ^b					---		3.00	---	---	---
FSA ^c					---		---	6.5	---	---
Ethanol	2.18	2.57	2.18	1.95	1.95	2.57	---	---	0.81	0.81
Isopropyl Alcohol	---	---	---	---	---	---	0.33	1.22	---	---
Starch ^d	1.25	1.47	2.00	1.25	---	2.30	0.5	0.70	0.71	0.42
Benefit agent delivery composition	0.6	0.75	0.6	0.75	0.37	0.60	0.37	0.6	0.37	0.37

Phase	0.21	0.25	0.21	0.21	0.14	---	---	0.14	---	---
Stabilizing Polymer ^f										
Suds Suppressor ^g	---	---	---	---	---	---	---	0.1	---	---
Calcium Chloride	0.15	0.176	0.15	0.15	0.30	0.176	---	0.1- 0.15	---	---
DTPA ^h	0.017	0.017	0.017	0.017	0.007	0.007	0.20	---	0.002	0.002
Preservative (ppm) ^{i,j}	5	5	5	5	5	5	---	250 ^j	5	5
Antifoam ^k	0.015	0.018	0.015	0.015	0.015	0.015	---	---	0.015	0.015
Dye (ppm)	40	40	40	40	40	40	11	30-300	30	30
Ammonium Chloride	0.100	0.118	0.100	0.100	0.115	0.115	---	---	---	---
HCl	0.012	0.014	0.012	0.012	0.028	0.028	0.016	0.025	0.011	0.011
Structurant ^l	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Neat Perfume	0.8	0.7	0.9	0.5	1.2	0.5	1.1	0.6	1.0	0.9
Deionized Water	*	*	*	*	*	*	*	*	*	*

* Balance

^a N,N-di(tallowoxyethyl)-N,N-dimethylammonium chloride.

^b Methyl bis(tallow amidoethyl)2-hydroxyethyl ammonium methyl sulfate.

- 5 ^c Reaction product of Fatty acid with Methyl diethanolamine in a molar ratio 1.5:1, quaternized with Methyl chloride, resulting in a 1:1 molar mixture of N,N-bis(stearoyl-oxy-ethyl) N,N-dimethyl ammonium chloride and N-(stearoyl-oxy-ethyl) N-hydroxyethyl N,N dimethyl ammonium chloride.

Zeolite	9.6	9.4	8.1	18	10	13.2	17.3
Photobleach particle	0.1	0.1	0.2	0.1	0.2	0.1	0.2
Blue and red carbonate speckles	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Ethoxylated Alcohol AE7	1	1	1	1	1	1	1
Tetraacetyl ethylene diamine agglomerate (92wt% active)	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Citric acid	1.4	1.4	1.4	1.4	1.4	1.4	1.4
PDMS/clay agglomerates (9.5% wt% active PDMS)	10.5	10.3	5	15	5.1	7.3	10.2
Polyethylene oxide	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Enzymes e.g. Protease (84mg/g active), Amylase (22mg/g active)	0.2	0.3	0.2	0.1	0.2	0.1	0.2
Suds suppressor agglomerate (12.4 wt% active)	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Sodium percarbonate (having from 12% to 15% active AvOx)	7.2	7.1	4.9	5.4	6.9	19.3	13.1
Perfume oil	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Solid perfume particles	0.4	0	0.4	0.4	0.4	0.4	0.6
Benefit agent delivery composition	1.3	2.4	1	1.3	1.3	1.3	0.7
Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Misc.	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total Parts	100	100	100	100	100	100	100

EXAMPLE 10 Liquid Laundry Formulations (HDLs)

Ingredient	HDL 1	HDL 2	HDL3	HDL4	HDL 5	HDL 6
Alkyl Ether Sulphate	0.00	0.50	12.0	12.0	6.0	7.0
Dodecyl Benzene Sulphonic Acid	8.0	8.0	1.0	1.0	2.0	3.0
Ethoxylated Alcohol	8.0	6.0	5.0	7.0	5.0	3.0
Citric Acid	5.0	3.0	3.0	5.0	2.0	3.0
Fatty Acid	3.0	5.0	5.0	3.0	6.0	5.0
Ethoxysulfated hexamethylene diamine quaternized	1.9	1.2	1.5	2.0	1.0	1.0
Diethylene triamine penta methylene phosphonic acid	0.3	0.2	0.2	0.3	0.1	0.2
Enzymes	1.20	0.80	0	1.2	0	0.8

Brightener (disulphonated diamino stilbene based FWA)	0.14	0.09	0	0.14	0.01	0.09
Cationic hydroxyethyl cellulose	0	0	0.10	0	0.200	0.30
Poly(acrylamide-co-diallyldimethylammonium chloride)	0	0	0	0.50	0.10	0
Hydrogenated Castor Oil Structurant	0.50	0.44	0.2	0.2	0.3	0.3
Boric acid	2.4	1.5	1.0	2.4	1.0	1.5
Ethanol	0.50	1.0	2.0	2.0	1.0	1.0
1, 2 propanediol	2.0	3.0	1.0	1.0	0.01	0.01
Glutaraldehyde	0	0	19 ppm	0	13 ppm	0
Diethyleneglycol (DEG)	1.6	0	0	0	0	0
2,3 - Methyl -1,3-propanediol (M pdiol)	1.0	1.0	0	0	0	0
Mono Ethanol Amine	1.0	0.5	0	0	0	0
NaOH Sufficient To Provide Formulation pH of:	pH 8	pH 8	pH 8	pH 8	pH 8	pH 8
Sodium Cumene Sulphonate (NaCS)	2.00	0	0	0	0	0
Silicone (PDMS) emulsion	0.003	0.003	0.003	0.003	0.003	0.003
Perfume	0.7	0.5	0.8	0.8	0.6	0.6
Polyethyleneimine	0.01	0.10	0.00	0.10	0.20	0.05
Benefit Agent Delivery Composition	1.00	5.00	1.00	2.00	0.10	0.80
Water	Balance to 100%	Balance to 100%	Balance to 100%	Balance to 100%	Balance to 100%	Balance to 100%

The dimensions and values disclosed herein are not to be understood as being strictly limited to the exact numerical values recited. Instead, unless otherwise specified, each such dimension is intended to mean both the recited value and functionally equivalent range surrounding that value. For example, a dimension disclosed as "40 mm" is intended to mean "about 40 mm".

All documents cited in the Detailed Description of the Invention are, in relevant part, incorporated herein by reference; the citation of any document is not to be construed as an admission that it is prior art with respect to the present invention. To the extent that any meaning or definition of a term in this document conflicts with any meaning or definition of the same term

in a document incorporated by reference, the meaning or definition assigned to that term in this document shall govern.

While particular embodiments of the present invention have been illustrated and described, it would be obvious to those skilled in the art that various other changes and
5 modifications can be made without departing from the spirit and scope of the invention. It is therefore intended to cover in the appended claims all such changes and modifications that are within the scope of this invention.

CLAIMS

What is claimed is:

1. A consumer product composition comprising:
 - a.) from 0.001% to 10% of a consumer benefit agent delivery composition comprising:
 - (i) from 5% to 95% by weight of a benefit agent, preferably from 30% to 85% by weight of a benefit agent, more preferably from 40% to 60% by weight of a benefit agent;
 - (ii) from 5% to 70% by weight of a polymeric compound, preferably from 20% to 60% by weight of a polymeric compound, more preferably from 30% to 55% by weight of a polymeric compound, preferably said polymeric compound comprises polybutadiene, polybutadiene-styrene, polyisoprene, polybutadiene-acrylonitrile or mixtures thereof;
 - (iii) from 0% to 50% by weight of a cross-linking agent, preferably from 0% to 10% by weight of a cross-linking agent, more preferably from 1% to 7% by weight of a cross-linking agent, preferably said cross-linking agent comprises a polyamine, more preferably said cross-linking agent comprises said polyamine comprises diethylenetriamine, ethylene diamine, polyethyleneimine, polyvinylamine, bis(3-aminopropyl)piperazine, N,N-Bis-(3-aminopropyl)methylamine, tris(2-aminoethyl)amine or mixtures thereof.; and
 - b.) a consumer product ingredient.
2. The composition of Claim 1, wherein said benefit agent is selected from the group consisting of a perfume raw material, a fragrance, a perfume, an essential oil, an insecticide, an insect repellent, a pesticide, a herbicide, an odorant, a malodor counteractant, an odor masking agent, a cooling agent, a vitamin, softening agent, a skin care agent, a silicone, a softening agent, an encapsulated perfume and combinations thereof.

3. A composition according to any one of the preceding claims wherein said polymeric compound comprises, per polymeric compound, at least two moieties selected from the moieties consisting of a carboxylic acid moiety, an amine moiety, a hydroxyl moiety, and a nitrile moiety.
4. A method for making the composition of any preceding claim, comprising:
- a.) mixing a first mixture, wherein said first mixture comprises: from 15% to 95% by weight of a volatile hydrophobic liquid; and from 3% to 40% by weight of a polymeric compound containing a carboxylic acid, until said first mixture is completely mixed; and mixing into said first mixture, from 1.5% to 40% by weight of a cross-linking agent; or
 - b.) mixing a first mixture, wherein said first mixture comprises: from 15% to 95% by weight of a volatile hydrophobic liquid; and from 3% to 40% by weight of a polymeric compound containing a carboxylic acid, until said first mixture is completely mixed; and mixing into said first mixture, from 0% to 40% by weight of a cross-linking agent; or
 - c.) mixing a first mixture, wherein said first mixture comprises: from 15% to 95% by weight of a volatile hydrophobic liquid; and from 3% to 40% by weight of a polymeric compound containing a carboxylic acid, until said first mixture is completely mixed; and mixing into said first mixture a second mixture, wherein said second mixture comprises: from 15% to 95% by weight volatile hydrophobic liquid; and from 1.5% to 40% by weight of a cross-linking agent; or
 - d.) combining from 15% to 95% by weight of a volatile hydrophobic liquid; and from 3% to 40% by weight of a polymeric compound containing a carboxylic acid, until said first mixture is completely mixed; and mixing into said first mixture, from 0% to 40% by weight of a cross-linking agent;
 - e.) optionally combining the mixtures produced in a.), b.), c.) and/or d.) with a diluent and/or a surfactant; and/or further processing the mixtures produced in a.), b.), c.) and/or d.) to form a particle, bead and/or agglomerate;
- preferably said hydrophobic liquid is selected from the group consisting of fragrance, perfume, perfume microcapsules, essential oil, insecticide, insect repellent, pesticide, herbicide, odorant, malodor counteractant, odor masking agent and mixtures thereof,

preferably polymeric compound comprises polybutadiene, polybutadiene-styrene, polyisoprene, polybutadiene-acrylonitrile or mixtures thereof, more preferably said polymeric compound comprises at least 2.0 carboxylic acid, amine or hydroxyl groups per groups per polymeric compound.

5. A consumer product comprising a composition according to any of Claims 1 to 3 and packaging, said composition being attached or adhered to said packaging.
6. A display comprising a composition according to any of Claims 1 to 3 and a display material, said composition being attached or adhered to said display material.
7. A cleaning and/or treatment composition or fabric care composition comprising a composition according to any one of Claims 1 to 3 and at least one cleaning and/or treatment composition or fabric care adjunct ingredient.
8. A method of treating and/or cleaning a situs, said method comprising
 - a.) optionally washing and/or rinsing said situs;
 - b.) contacting said situs with a composition according to any one of Claims 1 to 3 and/or Claim 7; and
 - c.) optionally washing and/or rinsing said situs.
9. A situs treated with a composition according to any one of Claims 1 to 3 and/or 7.

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2008/002120

A. CLASSIFICATION OF SUBJECT MATTER
 INV. C11D3/50 A61L9/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 C11D A61L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/247664 A1 (DREJA MICHAEL [DE] ET AL) 9 December 2004 (2004-12-09) claim 44 paragraph [0014] paragraph [0047] paragraph [0055] paragraph [0056] paragraph [0041] paragraph [0062] examples 1-3	1-9
A	GB 2 381 001 A (RECKITT BENCKISER [GB]) 23 April 2003 (2003-04-23) paragraph bridging pages 5 and 6 penultimate and ultimate paragraphs page 6 penultimate paragraph page 7 from page 7 the ultimate paragraph to page 8 line 18	1, 3, 4



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

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Date of the actual completion of the international search

26 June 2008

Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
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