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CA 2959432 A1 2016/03/31

(21) 2 959 432

(12) DEMANDE DE BREVET CANADIEN
CANADIAN PATENT APPLICATION

(13) A1

(86) Date de dépôt PCT/PCT Filing Date: 2015/09/25
(87) Date publication PCT/PCT Publication Date: 2016/03/31
(85) Entrée phase nationale/National Entry: 2017/02/24
(86) N° demande PCT/PCT Application No.: US 2015/052084
(87) N° publication PCT/PCT Publication No.: 2016/049389
(30) Priorités/Priorities: 2014/09/26 (US62/055,844);
2015/04/07 (US62/143,862)

(51) Cl.Int./Int.Cl. *A61L 9/01* (2006.01),
A61K 8/35 (2006.01), *C11B 9/00* (2006.01)

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(54) Titre : COMPOSITIONS DE REDUCTION DES MAUVAISES ODEURS
(54) Title: MALODOR REDUCTION COMPOSITIONS

(57) Abrégé/Abstract:
The present invention relates to malodor reduction compositions and methods of making and using same. The malodor reduction compositions are suitable for use in a variety of applications, including use in consumer products, for example, air freshening compositions, laundry detergents, fabric enhancers, surface cleaners, beauty care products, dish care products, diapers, feminine protection articles, and plastic films for garbage bags. Such malodor control technologies do not unduely interfere with the scent of the perfumed or unperfumed situs that is treated with the malodor control technology.

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
31 March 2016 (31.03.2016)

WIPO | PCT

(10) International Publication Number
WO 2016/049389 A1

(51) **International Patent Classification**:
A61L 9/01 (2006.01) *C11B 9/00* (2006.01)
A61K 8/35 (2006.01)

(21) **International Application Number**:
PCT/US2015/052084

(22) **International Filing Date**:
25 September 2015 (25.09.2015)

(25) **Filing Language**: English

(26) **Publication Language**: English

(30) **Priority Data**:
62/055,844 26 September 2014 (26.09.2014) US
62/143,862 7 April 2015 (07.04.2015) US

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(81) **Designated States** *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) **Designated States** *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report (Art. 21(3))*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

WO 2016/049389 A1

(54) **Title**: MALODOR REDUCTION COMPOSITIONS

(57) **Abstract**: The present invention relates to malodor reduction compositions and methods of making and using same. The malodor reduction compositions are suitable for use in a variety of applications, including use in consumer products, for example, air freshening compositions, laundry detergents, fabric enhancers, surface cleaners, beauty care products, dish care products, diapers, feminine protection articles, and plastic films for garbage bags. Such malodor control technologies do not unduely interfere with the scent of the perfumed or unperfumed situs that is treated with the malodor control technology.

MALODOR REDUCTION COMPOSITIONS

FIELD OF THE INVENTION

The present invention relates to malodor reduction compositions and methods of making and using same.

BACKGROUND OF THE INVENTION

Unscented or scented products are desired by consumers as they may be considered more natural and discreet than scented products. Manufacturers of unscented or scented products for controlling malodors rely on malodor reduction ingredients or other technologies (e.g. filters) to reduce malodors. However, effectively controlling malodors, for example, amine-based malodors (e.g. fish and urine), thiol and sulfide-based malodors (e.g. garlic and onion), C_2-C_{12} carboxylic acid based malodors (e.g. body and pet odor), indole based malodors (e.g. fecal and bad breath), short chain fatty aldehyde based malodors (e.g. grease) and geosmin based malodors (e.g. mold/mildew) may be difficult, and the time required for a product to noticeably reduce malodors may create consumer doubt as to the product's efficacy on malodors. Often times, manufacturers incorporate scented perfumes to help mask these difficult malodors.

Unfortunately, malodor control technologies typically cover up the malodor with a stronger scent and thus interfere with the scent of the perfumed or unperfumed situs that is treated with the malodor control technology. Thus, limited nature of the current malodor control technologies is extremely constraining. Thus what is needed is a broader palette of malodor control technologies so the perfume community can deliver the desired level of character in a greater number of situations/applications. Surprisingly, Applicants recognized that in addition to blocking a malodor's access to a sensory cell, in order to achieve the desired goal, a malodor control technology must leave such sensor cell open to other molecules, for example scent molecules. Thus, the malodor control technologies disclosed herein do not unduely interfere with the scent of the perfumed or unperfumed situs that is treated with the malodor control technology.

SUMMARY OF THE INVENTION

The present invention relates to malodor reduction compositions and methods of making and using same. The malodor reduction compositions are suitable for use in a variety of applications, including use in consumer products, for example, air freshening compositions,

laundry detergents, fabric enhancers, surface cleaners, beauty care products, dish care products, diapers, feminine protection articles, and plastic films for garbage bags. Such malodor control technologies do not unduely interfere with the scent of the perfumed or unperfumed situs that is treated with the malodor control technology.

DETAILED DESCRIPTION OF THE INVENTION

As used herein "MORV" is the calculated malodor reduction value for a subject material. A material's MORV indicates such material's ability to decrease or even eliminate the perception of one or more malodors. For purposes of the present application, a material's MORV is calculated in accordance with method found in the test methods section of the present application.

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. Such products include but are not limited to plastic films garbage bags, storage bags, storage wraps, diapers, bibs, wipes, garments, textiles including sheets and towels, composters; products for and/or methods relating to treating hair (human, dog, and/or cat), including, bleaching, coloring, dyeing, conditioning, wet or dry shampooing, styling, scalp treatments; deodorants and antiperspirants; personal cleansing; cosmetics; skin care including application of creams, lotions, fine fragrances 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 including air filtration, car care, dishwashing, fabric conditioning (including softening), laundry detergency, laundry and rinse additive and/or care, hard surface cleaning and/or treatment, towel bowl cleaners and other cleaning and/or malodor treatments for consumer, agricultural, industrial 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.

As used herein "energized system", refers to a system that operates by using an electrical and/or mechanical energy source such as a battery or electrical wall outlet to emit the malodor reduction composition. Examples of such devices include but are limited to liquid electric pluggable type air freshening devices.

As used herein, "malodor" refers to compounds generally offensive or unpleasant to most people, such as the complex odors associated with bowel movements.

As used herein, "neutralize" or "neutralization" refers to the ability of a compound or product to reduce or eliminate malodorous compounds. Odor neutralization may be partial, affecting only some of the malodorous compounds in a given context, or affecting only part of a malodorous compound. A malodorous compound may be neutralized by chemical reaction resulting in a new chemical entity, by sequestration, by chelation, by association, or by any other interaction rendering the malodorous compound less malodorous or non-malodorous. Neutralization is distinguishable from odor masking or odor blocking by a change in the malodorous compound, as opposed to a change in the ability to perceive the malodor without any corresponding change in the condition of the malodorous compound. Malodor neutralization provides a sensory and analytically measurable (e.g. gas chromatograph) malodor reduction. Thus, if a malodor reduction composition delivers genuine malodor neutralization, the composition will reduce malodors in the vapor and/or liquid phase.

As used herein, "non-energized" refers to a system that emits a targeted active passively or without the need for an electrical energy source. Handheld aerosol sprayers and traditional trigger/pump sprayers are considered non-energized systems.

As used herein, "odor blocking" refers to the ability of a compound to dull the human sense of smell.

As used herein, "odor masking" refers to the ability of a compound with a non-offensive or pleasant smell that is dosed such that it limits the ability to sense a malodorous compound. Odor-masking may involve the selection of compounds which coordinate with an anticipated malodor to change the perception of the overall scent provided by the combination of odorous compounds.

As used herein, the terms "a" and "an" mean "at least one".

As used herein, the terms "include", "includes" and "including" are meant to be non-limiting.

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.

Malodor Reduction Materials

Codes
A = Vapor Pressure > 0.1 torr
B = Vapor Pressure is between 0.01 torr and 0.1 torr
C = ClogP < 3
D = ClogP > 3
E = Probability of Ingredient Color Instability = 0%
F = Probability of Ingredient Color Instability < 71%
G = Odor Detection Threshold less than p.ol=8
H = Odor Detection Threshold greater than p.ol=8
I = Melamine formaldehyde PMC Headspace Response Ratio greater than or equal to 10
J = Melamine formaldehyde PMC leakage less than or equal to 5%
K = Log of liquid dish neat product liquid-air partition coefficient greater than or equal to -7
L = Log of liquid dish neat product liquid-air partition coefficient greater than or equal to -5

Table 1
List of materials with at least one MORV from 1 to 5

Number	Material Name	CAS Number	Comment Code
1	2-ethylhexyl (Z)-3-(4-methoxyphenyl)acrylate	5466-77-3	DEFHJ
2	2,4-dimethyl-2-(5,5,8,8-tetramethyl-5,6,7,8-tetrahydronaphthalen-2-yl)-1,3-dioxolane	131812-67-4	DFHJ
3	1,1-dimethoxynon-2-yne	13257-44-8	ACEFHJK
4	para-Cymen-8-ol	1197-01-9	BCGIJK
7	3-methoxy-7,7-dimethyl-10-methylenebicyclo[4.3.1]decane	216970-21-7	BDEFHJK
9	Methoxycyclododecane	2986-54-1	DEFHJK
10	1,1-dimethoxycyclododecane	950-33-4	DEFHJK
11	(Z)-tridec-2-enenitrile	22629-49-8	DEFHJK
13	Oxybenzone	131-57-7	DEFGJ
14	Oxyoctaline formate	65405-72-3	DFHJK
16	4-methyl-1-oxaspiro[5.5]undecan-4-ol	57094-40-3	CFGIJK
17	7-methyl-2H-benzo[b][1,4]dioxepin-3(4H)-one	28940-11-6	CGIK
18	1,8-dioxacycloheptadecan-9-one	1725-01-5	DGJ
21	4-(tert-pentyl)cyclohexan-1-one	16587-71-6	ADFGIJKL
22	o-Phenyl anisol	86-26-0	DEFHJK

23	3a,5,6,7,8,8b-hexahydro-2,2,6,6,7,8,8-heptamethyl-4H-indeno(4,5-d)-1,3-dioxole	823178-41-2	DEFHJK
25	7-isopropyl-8,8-dimethyl-6,10-dioxaspiro[4.5]decane	62406-73-9	BDEFHIJK
28	Octyl 2-furoate	39251-88-2	DEFHJK
29	Octyl acetate	112-14-1	BDEFHJKL
30	octanal propylene glycol acetal	74094-61-4	BDEFHJKL
31	Octanal	124-13-0	ACHIKL
32	Octanal dimethyl acetal	10022-28-3	ACEFGJKL
33	Myrcene	123-35-3	ADEFGIKL
34	Myrcenol	543-39-5	BCEFGIJK
35	Myrcenyl acetate	1118-39-4	ADEFGJK
36	Myristaldehyde	124-25-4	DFHJK
37	Myristicine	607-91-0	CGJK
38	Myristyl nitrile	629-63-0	DEFHJK
39	2,2,6,8-tetramethyl-1,2,3,4,4a,5,8,8a-octahydronaphthalen-1-ol	103614-86-4	DEFHIJK
42	Ocimenol	5986-38-9	BCHIJK
43	Ocimenol	28977-58-4	BCHIJK
47	Nopyl acetate	128-51-8	DEFHJK
48	Nootkatone	4674-50-4	DHJK
49	Nonyl alcohol	143-08-8	BDEFGIJKL
50	Nonaldehyde	124-19-6	ADHIKL
52	12-methyl-14-tetradec-9-enolide	223104-61-8	DFHJK
57	N-ethyl-p-menthane-3-carboxamide	39711-79-0	DEFGIJK
61	1-(3-methylbenzofuran-2-yl)ethan-1-one	23911-56-0	CEFHIK
62	2-methoxynaphthalene	93-04-9	BDEFHK
63	Nerolidol	7212-44-4	DEFHJK
64	Nerol	106-25-2	BCHIK
65	1-ethyl-3-methoxytricyclo[2.2.1.02,6]heptane	31996-78-8	ACEFHIJKL
67	Methyl (E)-non-2-enoate	111-79-5	ADEFHJKL
68	10-isopropyl-2,7-dimethyl-1-oxaspiro[4.5]deca-3,6-diene	89079-92-5	BDEFHIJK
69	2-(2-(4-methylcyclohex-3-en-1-yl)propyl)cyclopentan-1-one	95962-14-4	DHJK
70	Myrtenal	564-94-3	ACFHIJKL
71	(E)-4-(2,2,3,6-tetramethylcyclohexyl)but-3-en-2-one	54992-90-4	BDEFHIJK
74	Myraldyl acetate	53889-39-7	DHJK
75	Musk tibetine	145-39-1	DHIJ
76	1,7-dioxacycloheptadecan-8-one	3391-83-1	DGJ
77	Musk ketone	81-14-1	DHJ
78	Musk ambrette	83-66-9	DHIJ
79	3-methylcyclopentadecan-1-one	541-91-3	DEFHJK

80	(E)-3-methylcyclopentadec-4-en-1-one	82356-51-2	DHJK
82	3-methyl-4-phenylbutan-2-ol	56836-93-2	BCEFHIK
83	1-(4-isopropylcyclohexyl)ethan-1-ol	63767-86-2	BDEFHIJK
85	Milk Lactone	72881-27-7	DEFHJK
91	Methyl octine carbonate	111-80-8	BDEFHKL
92	Methyl octyl acetaldehyde	19009-56-4	ADFHJKL
93	6,6-dimethoxy-2,5,5-trimethylhex-2-ene	67674-46-8	ACHIJKL
98	Methyl phenylethyl carbinol	2344-70-9	BCEFHIK
100	Methyl stearate	112-61-8	DEFHJ
101	Methyl nonyl acetaldehyde dimethyl acetal	68141-17-3	BDEFHJK
102	Methyl nonyl ketone	112-12-9	BDFHJKL
103	Methyl nonyl acetaldehyde	110-41-8	BDFHJK
104	Methyl myristate	124-10-7	DEFHJK
105	Methyl linoleate	112-63-0	DEFHJ
106	Methyl lavender ketone	67633-95-8	CFHJK
108	Methyl isoeugenol	93-16-3	ACEFHK
109	Methyl hexadecanoate	112-39-0	DEFHJK
110	Methyl eugenol	93-15-2	ACEFHK
112	Methyl epijasmonate	1211-29-6	CHJK
113	Methyl dihydrojasmonate	24851-98-7	DFHJK
114	Methyl diphenyl ether	3586-14-9	DEFHJK
117	Methyl cinnamate	103-26-4	BCEFHK
119	Methyl chavicol	140-67-0	ADEFHK
120	Methyl beta-naphthyl ketone	93-08-3	CEFHK
122	Methyl 2-octynoate	111-12-6	ACEFHKL
123	Methyl alpha-cyclogeranate	28043-10-9	ACHIJKL
126	Methoxycitronellal	3613-30-7	ACFGIJK
128	Menthone 1,2-glycerol ketal (racemic)	67785-70-0	CEFHJ
130	Octahydro-1H-4,7-methanoindene-1-carbaldehyde	30772-79-3	BCFHIJKL
134	3-(3-(tert-butyl)phenyl)-2-methylpropanal	62518-65-4	BDHJK
135	(E)-4-(4,8-dimethylnona-3,7-dien-1-yl)pyridine	38462-23-6	DEFHJK
137	(E)-trideca-3,12-dienenitrile	134769-33-8	DEFHJK
140	2,2-dimethyl-3-(m-tolyl)propan-1-ol	103694-68-4	CEFHIJK
141	2,4-dimethyl-4,4a,5,9b-tetrahydroindeno[1,2-d][1,3]dioxine	27606-09-3	CEFHJK
142	Maceal	67845-30-1	BDFHJK
143	4-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde	31906-04-4	CHJ
145	l-Limonene	5989-54-8	ADEFGIJKL

146	(Z)-3-hexen-1-yl-2-cyclopenten-1-one	53253-09-1	BDHK
148	Linalyl octanoate	10024-64-3	DEFHJ
149	Linalyl isobutyrate	78-35-3	BDHJK
152	Linalyl benzoate	126-64-7	DFHJ
153	Linalyl anthranilate	7149-26-0	DFHJ
155	Linalool oxide (furanoid)	60047-17-8	BCHIJK
156	linalool oxide	1365-19-1	CGIJK
158	(2Z,6E)-3,7-dimethylnona-2,6-dienenitrile	61792-11-8	BDEFHJK
159	3-(4-methylcyclohex-3-en-1-yl)butanal	6784-13-0	ACFHIJK
161	(2,5-dimethyl-1,3-dihydroinden-2-yl)methanol	285977-85-7	CEFHJK
162	3-(4-(tert-butyl)phenyl)-2-methylpropanal	80-54-6	BDHJK
167	(E)-1-(1-methoxypropoxy)hex-3-ene	97358-54-8	ACEFGJKL
168	Leaf acetal	88683-94-7	ACEFGJKL
170	l-Carveol	2102-58-1	BCHIJK
174	Lauryl alcohol	112-53-8	DEFGJK
175	Lauryl acetate	112-66-3	DEFHJK
176	Lauric acid	143-07-7	DEFHJ
177	Lactojasmone	7011-83-8	BDEFHIJKL
178	Lauraldehyde	112-54-9	BDFHJK
179	3,6-dimethylhexahydrobenzofuran-2(3H)-one	92015-65-1	BCEFHIJKL
182	4-(1-ethoxyvinyl)-3,3,5,5-tetramethylcyclohexan-1-one	36306-87-3	BDFHIJK
183	Khusimol	16223-63-5	CEFHJK
184	5-(sec-butyl)-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane	117933-89-8	DEFHJ
185	(1-methyl-2-((1,2,2-trimethylbicyclo[3.1.0]hexan-3-yl)methyl)cyclopropyl)methanol	198404-98-7	DEFHJK
186	2-propylheptanenitrile	208041-98-9	ADEFHIJKL
187	(E)-6-(pent-3-en-1-yl)tetrahydro-2H-pyran-2-one	32764-98-0	BCFHIKL
189	2-hexylcyclopentan-1-one	13074-65-2	BDFHJKL
190	2-methyl-4-phenyl-1,3-dioxolane	33941-99-0	BCEFGIK
192	2,6,9,10-tetramethyl-1-oxaspiro(4.5)deca-3,6-diene	71078-31-4	BDEFHIJK
193	Isopulegol	89-79-2	BCEFHIJKL
195	Isopropyl palmitate	142-91-6	DEFHJ
196	Isopropyl myristate	110-27-0	DEFHJK
197	Isopropyl dodecanoate	10233-13-3	DEFHJK
199	Isopimpinellin	482-27-9	CFGJ
206	Iso3-methylcyclopentadecan-1-one	3100-36-5	DEFGJK

208	Isomenthone	491-07-6	ADEFGIJKL
209	Isojasmone	95-41-0	BDFHJKL
210	Isomenthone	36977-92-1	ADEFGIJKL
211	Isohexenyl cyclohexenyl carboxaldehyde	37677-14-8	DFHJK
212	Isoeugenyl benzyl ether	120-11-6	DFHJ
215	1-((2S,3S)-2,3,8,8-tetramethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-yl)ethan-1-one	54464-57-2	DHJK
218	Isocyclocitral	1335-66-6	ACFHIJKL
221	Isobutyl quinoline	65442-31-1	DEFHJK
227	Isobornylcyclohexanol	68877-29-2	DEFHJK
228	Isobornyl propionate	2756-56-1	BDEFHIJK
229	Isobornyl isobutyrate	85586-67-0	BDEFHIJK
230	Isobornyl cyclohexanol	66072-32-0	DEFHJK
231	Isobornyl acetate	125-12-2	ADEFHIJKL
233	Isobergamate	68683-20-5	DEFHJK
234	Isoamyl undecylenate	12262-03-2	DEFHJK
238	Isoamyl laurate	6309-51-9	DEFHJK
242	Isoambrettolide	28645-51-4	DGJ
243	Irisnitrile	29127-83-1	ADEFHKL
244	Indolene	68527-79-7	DEFHJ
246	Indol/Hydroxycitronellal Schiff base	67801-36-9	DEFHJ
247	4,4a,5,9b-tetrahydroindeno[1,2-d][1,3]dioxine	18096-62-3	BCEFGJK
249	Hydroxy-citronellol	107-74-4	CEFGIJK
252	2-cyclododecylpropan-1-ol	118562-73-5	DEFHJK
253	Hydrocitronitrile	54089-83-7	CEFHJK
254	Hydrocinnamyl alcohol	122-97-4	BCEFHIK
256	Hydratropaldehyde dimethyl acetal	90-87-9	ACEFHJK
259	5-ethyl-4-hydroxy-2-methylfuran-3(2H)-one	27538-09-6	CFGIK
260	2,3-dihydro-3,3-dimethyl-1H-indene-5-propanal	173445-44-8	DHJK
261	3-(3,3-dimethyl-2,3-dihydro-1H-inden-5-yl)propanal	173445-65-3	DHJK
263	Hexyl octanoate	1117-55-1	DEFHJK
267	Hexyl hexanoate	6378-65-0	DEFHJKL
269	Hexyl cinnamic aldehyde	101-86-0	DHJ
271	Hexyl benzoate	6789-88-4	DEFHJK
274	Hexenyl tiglate	84060-80-0	BDEFHJK
276	(E)-3,7-dimethylocta-2,6-dien-1-yl palmitate	3681-73-0	DEFHJ
277	Hexadecanolide	109-29-5	DEFGJK
278	2-butyl-4,4,6-trimethyl-1,3-dioxane	54546-26-8	ADEFHIJKL
280	Ethyl (1R,2R,3R,4R)-3-isopropylbicyclo[2.2.1]hept-5-ene-2-carboxylate	116126-82-0	BDEFHIJK

281	3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl acetate	5413-60-5	CEFGJK
285	2-(1-(3,3-dimethylcyclohexyl)ethoxy)-2-methylpropyl propionate	141773-73-1	DEFHJ
286	Heliotropine diethyl acetal	40527-42-2	CEFGJ
288	Helional	1205-17-0	CHJK
289	(E)-oxacyclohexadec-13-en-2-one	111879-80-2	DGJK
290	Gyrane	24237-00-1	ADEFHIJKL
292	Guaiol	489-86-1	DEFHJK
293	1-(2,6,6-trimethylcyclohex-2-en-1-yl)pentan-3-one	68611-23-4	DHJK
294	Ethyl 2-ethyl-6,6-dimethylcyclohex-2-ene-1-carboxylate	57934-97-1	BDEFHIJK
295	Germacrene B	15423-57-1	DEFHJK
296	Germacrene D	23986-74-5	DEFHJK
300	Geranyl phenylacetate	102-22-7	DFHJ
301	Geranyl phenyl acetate	71648-43-6	DFHJ
303	Geranyl linalool	1113-21-9	DFHJ
307	Geranyl cyclopentanone	68133-79-9	DHJK
316	gamma-Undecalactone (racemic)	104-67-6	DEFHJKL
317	gamma-Terpinyl acetate	10235-63-9	BDHJK
318	gamma-Terpineol	586-81-2	BCGIJK
321	gamma-Nonalactone	104-61-0	BCEFHIKL
322	gamma-Muurolene	30021-74-0	DEFHJKL
323	gamma-(E)-6-(pent-3-en-1-yl)tetrahydro-2H-pyran-2-one	63095-33-0	BCEFHKL
324	gamma-Ionone	79-76-5	BDEFHIJK
325	gamma-Himachalene	53111-25-4	BDEFHJKL
328	gamma-Gurjunene	22567-17-5	DEFHJKL
329	gamma-Eudesmol	1209-71-8	DFHJK
330	gamma-Dodecalactone	2305-05-7	DEFHJK
331	gamma-Damascone	35087-49-1	BDEFHIJK
332	gamma-Decalactone	706-14-9	BDEFHIJKL
333	gamma-Cadinene	39029-41-9	DEFHJKL
334	1-(3,3-dimethylcyclohexyl)pent-4-en-1-one	56973-87-6	BDEFHJK
335	4,6,6,7,8,8-hexamethyl-1,3,4,6,7,8-hexahydrocyclopenta[g]isochromene	1222-05-5	DEFHJK
336	Furfuryl octanoate	39252-03-4	DEFHJK
338	Furfuryl hexanoate	39252-02-3	CEFHJK
339	Furfuryl heptanoate	39481-28-2	CEFHJK
342	2-methyldecanenitrile	69300-15-8	BDEFHJKL
343	8,8-dimethyl-3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl propionate	76842-49-4	DEFHJK

344	Ethyl (3aR,4S,7R,7aR)-octahydro-3aH-4,7-methanoindene-3a-carboxylate	80657-64-3	DEFHIJK
347	Diethyl cyclohexane-1,4-dicarboxylate	72903-27-6	CEFHJK
349	(6-isopropyl-9-methyl-1,4-dioxaspiro[4.5]decan-2-yl)methanol	63187-91-7	CEFHJ
350	2-isobutyl-4-methyltetrahydro-2H-pyran-4-ol	63500-71-0	BCEFHIJK
352	Undec-10-enenitrile	53179-04-7	BDEFHJK
353	(Z)-6-ethylideneoctahydro-2H-5,8-methanochromen-2-one	69486-14-2	CEFGJK
356	3-(2-ethylphenyl)-2,2-dimethylpropanal	67634-15-5	BDHJK
358	(E)-4,8-dimethyldeca-4,9-dienal	71077-31-1	BDFHJK
359	(E)-4-((3aR,4R,7R,7aR)-1,3a,4,6,7,7a-hexahydro-5H-4,7-methanoinden-5-ylidene)-3-methylbutan-2-ol	501929-47-1	DEFHJK
360	8,8-dimethyl-3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl acetate	171102-41-3	DEFHJK
361	3-(4-ethylphenyl)-2,2-dimethylpropanenitrile	134123-93-6	DEFHJK
362	2-heptylcyclopentan-1-one	137-03-1	DFHJKL
363	1-ethoxyethoxy Cyclododecane	389083-83-4	DEFHJK
364	3-cyclohexene-1-carboxylic acid, 2,6,6-trimethyl-, methyl ester	815580-59-7	ACHIJKL
368	Farnesyl acetate	29548-30-9	DEFHJK
369	Farnesol	4602-84-0	DEFHJK
370	Oxacyclohexadecan-2-one	106-02-5	DEFGJK
371	1-cyclopentadec-4-en-1-one	14595-54-1	DEFGJK
372	1-cyclopentadec-4-en-1-one	35720-57-1	DEFGJK
373	2-methoxy-4-(4-methylenetetrahydro-2H-pyran-2-yl)phenol	128489-04-3	CGJ
374	Eugenyl acetate	93-28-7	CFHJK
375	Eugenol	97-53-0	CHIK
377	Ethylmethylphenylglycidate	77-83-8	CFHJK
378	Ethylene brassylate	105-95-3	DFGJ
381	Ethyl undecylenate	692-86-4	DEFHJK
385	Ethyl palmitate	628-97-7	DEFHJ
386	Ethyl nonanoate	123-29-5	BDEFHJKL
388	Ethyl myristate	124-06-1	DEFHJK
390	Ethyl linalool	10339-55-6	BCEFHJK
391	Ethyl laurate	106-33-2	DEFHJK
394	Ethyl hexyl ketone	925-78-0	ADFHIKL
397	Ethyl decanoate	110-38-3	BDEFHJK

398	Ethyl gamma-Safranate	35044-57-6	ADHIJK
407	Ethyl 3-phenylglycidate	121-39-1	CGJK
413	6-ethyl-2,10,10-trimethyl-1-oxaspiro[4.5]deca-3,6-diene	79893-63-3	BDEFHIJK
414	Elemol	639-99-6	DEFHJK
415	(2-(1-ethoxyethoxy)ethyl)benzene	2556-10-7	BCEFHJK
416	(E)-3-methyl-5-(2,2,3-trimethylcyclopent-3-en-1-yl)pent-4-en-2-ol	67801-20-1	DHJK
417	d-xylose	58-86-6	CGIJ
418	(E)-4-((3aS,7aS)-octahydro-5H-4,7-methanoinden-5-ylidene)butanal	30168-23-1	DFHJK
421	Dodecanal dimethyl acetal	14620-52-1	DEFHJK
424	d-Limonene	5989-27-5	ADEFGIJKL
425	Dipropylene Glycol	25265-71-8	CEFGIK
426	Dispirone	83863-64-3	BDEFHJK
428	Diphenyloxide	101-84-8	BDEFHK
429	Diphenylmethane	101-81-5	DEFGK
432	Dimethyl benzyl carbinyl butyrate	10094-34-5	DEFHJK
436	2,6-dimethyloct-7-en-4-one	1879-00-1	ADEFHIJKL
441	Octahydro-1H-4,7-methanoinden-5-yl acetate	64001-15-6	DEFHJKL
444	Dihydrocarveol acetate	20777-49-5	BDEFHIJK
445	Dihydrocarveol	619-01-2	BCEFHIJKL
449	Dihydro Linalool	18479-51-1	BCEFGIJKL
450	Dihydro Isojasmonate	37172-53-5	DHJK
453	Dibutyl sulfide	544-40-1	ADEFHIKL
457	Dibenzyl	103-29-7	DEFGJK
459	delta-Undecalactone	710-04-3	DEFHJKL
461	delta-Elemene	20307-84-0	BDEFHJK
462	delta-Guaiene	3691-11-0	DEFHJKL
463	delta-Dodecalactone	713-95-1	DEFHJK
464	delta-Decalactone	705-86-2	BDEFHIJKL
465	delta-Cadinene	483-76-1	DEFHJKL
466	delta-damascone	57378-68-4	ADHIJK
467	delta-Amorphene	189165-79-5	DEFHJKL
468	delta-3-Carene	13466-78-9	ADEFGIJKL
470	Decylenic alcohol	13019-22-2	BDEFHJK
471	Decyl propionate	5454-19-3	DEFHJK
473	Decanal diethyl acetal	34764-02-8	DEFHJK
474	Decahydro-beta-naphthol	825-51-4	BCEFGIK
475	1-cyclohexylethyl (E)-but-2-enoate	68039-69-0	BDFHJK
478	3-(4-isopropylphenyl)-2-methylpropanal	103-95-7	BDFHJK
479	Cyclotetradecane	295-17-0	DEFGJKL
480	Cyclopentadecanone	502-72-7	DEFGJK
482	Cyclohexyl salicylate	25485-88-5	DFGJ

484	3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl butyrate	113889-23-9	DEFHJK
485	Cyclic ethylene dodecanedioate	54982-83-1	DFGJ
486	8,8-dimethyl-1,2,3,4,5,6,7,8-octahydronaphthalene-2-carbaldehyde	68991-97-9	DHJK
487	3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-5-yl isobutyrate	67634-20-2	DEFHJK
488	Curzerene	17910-09-7	DHJK
491	Cumic alcohol	536-60-7	CHIJK
493	Coumarone	1646-26-0	BCEFHIK
497	2-(3-phenylpropyl)pyridine	2110-18-1	CEFHJK
498	Dodecanenitrile	2437-25-4	DEFHJK
501	(E)-cycloheptadec-9-en-1-one	542-46-1	DEFGJ
502	Citryl acetate	6819-19-8	DFHJK
503	Citrus Propanol	15760-18-6	CEFHIJK
505	Citronitrile	93893-89-1	CEFHJK
519	Citral propylene glycol acetal	10444-50-5	CEFHJK
520	Citral dimethyl acetal	7549-37-3	BCEFHJK
521	Citral diethyl acetal	7492-66-2	BDEFHJK
524	cis-Ocimene	3338-55-4	ADGIKL
527	cis-Limonene oxide	13837-75-7	ADEFGIJKL
529	Cis-iso-ambrettolide	36508-31-3	DGJ
530	cis-6-nonenol	35854-86-5	BCEFHIKL
531	cis-carveol	1197-06-4	BCHIJK
532	cis-4-Decen-1-al	21662-09-9	ADHKL
534	cis-3-hexenyl-cis-3-hexenoate	61444-38-0	BDEFHJK
537	cis-3-Hexenyl salicylate	65405-77-8	DEFGJ
541	Cis-3-hexenyl Benzoate	25152-85-6	DEFHJK
544	cis-3-Hexenyl 2-methylbutyrate	53398-85-9	ADEFHJKL
546	cis-3, cis-6-nonadienol	53046-97-2	ACEFHK
548	Cinnamyl propionate	103-56-0	DEFHJK
550	Cinnamyl isobutyrate	103-59-3	DEFHJK
551	Cinnamyl formate	104-65-4	BCEFHK
552	Cinnamyl cinnamate	122-69-0	DHJ
553	Cinnamyl acetate	103-54-8	BCEFHK
555	Cinnamic alcohol	104-54-1	BCEFHIK
558	Cetyl alcohol	36653-82-4	DEFHJ
559	(E)-1-(2,6,6-trimethylcyclohex-2-en-1-yl)hepta-1,6-dien-3-one	79-78-7	DHJK
560	2-methyl-4-(2,6,6-trimethylcyclohex-1-en-1-yl)butanal	65405-84-7	DFHJK
561	(3aR,5aR,9aR,9bR)-3a,6,6,9a-tetramethyldodecahydronaphtho[2,1-b]furan	3738-00-9	DEFHJK
562	1,6-dioxacycloheptadecan-7-one	6707-60-4	DGJ
563	1-(6-(tert-butyl)-1,1-dimethyl-2,3-dihydro-1H-inden-4-yl)ethan-1-one	13171-00-1	DEFHJK

565	Cedryl methyl ether	19870-74-7	ADEFHJK
566	Cedryl formate	39900-38-4	BDEFHJK
567	Cedryl acetate	77-54-3	DEFHJK
568	(4Z,8Z)-1,5,9-trimethyl-13-oxabicyclo[10.1.0]trideca-4,8-diene	71735-79-0	DFHJK
569	Cedrol	77-53-2	DEFHJK
570	5-methyl-1-(2,2,3-trimethylcyclopent-3-en-1-yl)-6-oxabicyclo[3.2.1]octane	139539-66-5	DEFHJK
571	5-methyl-1-(2,2,3-trimethylcyclopent-3-en-1-yl)-6-oxabicyclo[3.2.1]octane	426218-78-2	DFHJ
572	1,1,2,3,3-pentamethyl-1,2,3,5,6,7-hexahydro-4H-inden-4-one	33704-61-9	BDEFHIJK
573	Caryophyllene alcohol acetate	32214-91-8	DEFHJK
574	Caryolan-1-ol	472-97-9	DEFHJK
577	Carvyl acetate	97-42-7	BDHIJK
578	Caprylnitrile	124-12-9	ACEFGIKL
580	Caprylic alcohol	111-87-5	ACEFGIKL
581	Caprylic acid	124-07-2	BCEFHIK
582	Capric acid	334-48-5	DEFHJK
584	Capraldehyde	112-31-2	ADHKL
586	3-(4-methoxyphenyl)-2-methylpropanal	5462-06-6	BCHJK
587	Camphorquinone	10373-78-1	ACEFGIJK
589	Camphene	79-92-5	ADEFGIJKL
591	Ethyl 2-methyl-4-oxo-6-pentylcyclohex-2-ene-1-carboxylate	59151-19-8	DHJ
592	Butylated hydroxytoluene	128-37-0	DEFGIJK
594	Butyl stearate	123-95-5	DEFHJ
595	Butyl butyryl lactate	7492-70-8	CEFGJK
599	Butyl 10-undecenoate	109-42-2	DEFHJK
600	2-methyl-4-(2,2,3-trimethylcyclopent-3-en-1-yl)butan-1-ol	72089-08-8	DEFHJK
601	3-(4-(tert-butyl)phenyl)propanal	18127-01-0	BDHJK
603	Bornyl isobutyrate	24717-86-0	BDEFHIJK
604	Bornyl acetate	76-49-3	ADEFHIJKL
606	2-ethoxy-2,6,6-trimethyl-9-methylenebicyclo[3.3.1]nonane	68845-00-1	BDEFHJK
607	(ethoxymethoxy)cyclododecane	58567-11-6	DEFHJK
608	Bisabolene	495-62-5	DEFHJK
609	Bigarade oxide	72429-08-4	ADEFHJKL
610	beta-Vetivone	18444-79-6	DHJK
611	beta-Terpinyl acetate	10198-23-9	BDHJK
612	beta-Terpineol	138-87-4	BCGIJK
613	beta-Sinensal	60066-88-8	DHJK
614	beta-Sesquiphellandrene	20307-83-9	DEFHJK

615	beta-Selinene	17066-67-0	BDEFGJK
616	beta-Santalol	77-42-9	DEFHJK
618	beta-Pinene	127-91-3	ADEFGIJKL
620	beta-Naphthyl ethyl ether	93-18-5	BDEFHJK
621	beta-Patchoulline	514-51-2	BDEFGJKL
624	beta-Himachalene Oxide	57819-73-5	BDFHJK
625	beta-Himachalene	1461-03-6	DEFHJKL
626	beta-Guaiene	88-84-6	DEFHJKL
627	(2,2-dimethoxyethyl)benzene	101-48-4	DHJK
628	beta-Farnesene	18794-84-8	DEFHJK
631	beta-Copaene	18252-44-3	BDEFHJKL
632	beta-Cedrene	546-28-1	BDEFGJKL
633	beta-Caryophyllene	87-44-5	DEFHJKL
635	beta-Bisabolol	15352-77-9	DFHJK
636	Beta ionone epoxide	23267-57-4	BDEFHIJK
638	Bergaptene	484-20-8	CGJ
639	Benzyl-tert-butanol	103-05-9	CEFGJK
644	Benzyl laurate	140-25-0	DEFHJ
649	Benzyl dimethyl carbinol	100-86-7	BCEFGIK
650	Benzyl cinnamate	103-41-3	DHJ
653	Benzyl benzoate	120-51-4	DHJ
655	Benzophenone	119-61-9	DEFHK
658	7-isopentyl-2H-benzo[b][1,4]dioxepin-3(4H)-one	362467-67-2	DHJ
659	2'-isopropyl-1,7,7-trimethylspiro[bicyclo[2.2.1]heptane-2,4'-[1,3]dioxane]	188199-50-0	DEFHJK
660	4-(4-methylpent-3-en-1-yl)cyclohex-3-ene-1-carbonitrile	21690-43-7	DEFHJK
661	Aurantiol	89-43-0	DEFHJ
663	Anisyl phenylacetate	102-17-0	DFHJ
668	Methyl (E)-octa-4,7-dienoate	189440-77-5	ACEFHKL
671	Amyl Cinnamate	3487-99-8	DEFHJK
673	(3aR,5aS,9aS,9bR)-3a,6,6,9a-tetramethyldodecahydronaphtho[2,1-b]furan	6790-58-5	DEFHJK
674	(4aR,5R,7aS,9R)-2,2,5,8,8,9a-hexamethyloctahydro-4H-4a,9-methanoazuleno[5,6-d][1,3]dioxole	211299-54-6	DEFHJK
675	2,5,5-trimethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-ol	71832-76-3	DEFHJK
676	2,5,5-trimethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-ol	41199-19-3	DEFHJK
677	1-((2-(tert-butyl)cyclohexyl)oxy)butan-2-ol	139504-68-0	DEFHJK
678	(3S,5aR,7aS,11aS,11bR)-3,8,8,11a-tetramethyldodecahydro-5H-3,5a-epoxynaphtho[2,1-c]oxepine	57345-19-4	DEFHJ

679	2,2,6,6,7,8,8-heptamethyldecahydro-2H-indeno[4,5-b]furan	476332-65-7	ADEFHJK
680	2,2,6,6,7,8,8-heptamethyldecahydro-2H-indeno[4,5-b]furan	647828-16-8	ADEFHJK
681	Amber acetate	37172-02-4	BDEFHJK
682	Alpinofix	811436-82-5	DEFHJ
683	alpha-Thujone	546-80-5	ADEFGIJKL
684	alpha-Vetivone	15764-04-2	DHJK
686	alpha-Terpinyl propionate	80-27-3	BDEFHJK
691	alpha-Sinensal	17909-77-2	DHJK
692	alpha-Selinene	473-13-2	BDEFHJK
693	alpha-Santalene	512-61-8	ADEFHJKL
694	alpha-Santalol	115-71-9	DEFHJK
696	alpha-Patchoulene	560-32-7	ADEFHJKL
697	alpha-neobutenone	56973-85-4	BDHJK
698	alpha-Muurolene	10208-80-7	DEFHJKL
700	alpha-methyl ionone	127-42-4	BDHJK
702	alpha-Limonene	138-86-3	ADEFGIJKL
704	alpha-Irone	79-69-6	BDHJK
706	alpha-Humulene	6753-98-6	DEFHJK
707	alpha-Himachalene	186538-22-7	BDEFHJK
708	alpha-Gurjunene	489-40-7	BDEFHJKL
709	alpha-Guaiene	3691-12-1	DEFHJKL
710	alpha-Farnesene	502-61-4	DEFHJK
711	alpha-Fenchene	471-84-1	ADEFGIJKL
712	alpha-Eudesmol	473-16-5	DEFHJK
713	alpha-Curcumene	4176-17-4	DEFHJK
714	alpha-Cubebene	17699-14-8	ADEFHJKL
715	alpha-Cedrene epoxide	13567-39-0	ADEFHJK
716	alpha-Cadinol	481-34-5	DEFHJK
717	alpha-Cadinene	24406-05-1	DEFHJKL
718	alpha-Bisabolol	515-69-5	DFHJK
719	alpha-bisabolene	17627-44-0	DEFHJK
720	alpha-Bergamotene	17699-05-7	BDEFHJKL
721	alpha-Amylcinnamyl alcohol	101-85-9	DEFHJ
722	alpha-Amylcinnamyl acetate	7493-78-9	DEFHJ
723	alpha-Amylcinnamaldehyde diethyl acetal	60763-41-9	DEFHJ
724	alpha-Amylcinnamaldehyde	122-40-7	DHJK
725	alpha-Amorphene	23515-88-0	DEFHJKL
726	alpha-Agarofuran	5956-12-7	BDEFHJK
727	1-methyl-4-(4-methyl-3-penten-1-yl)-3-Cyclohexene-1-carboxaldehyde	52475-86-2	DFHJK
730	1-Phenyl-2-pentanol	705-73-7	CEFHK
731	1-Phenyl-3-methyl-3-pentanol	10415-87-9	CEFHJK
733	2,3,4-trimethoxy-benzaldehyde	2103-57-3	BCGI
735	2,4,5-trimethoxy-benzaldehyde	4460-86-0	BCG
736	2,4,6-trimethoxybenzaldehyde	830-79-5	BCGI

738	2,4-Nonadienal	6750-03-4	ACHKL
741	2,6,10-Trimethylundecanal	105-88-4	BDFGJK
742	alpha,4-Dimethyl benzenepropanal	41496-43-9	ACHJK
746	Allyl cyclohexyl propionate	2705-87-5	BDEFHJK
748	Allyl amyl glycolate	67634-00-8	BCEFGJK
750	Allo-aromadendrene	25246-27-9	BDEFHJKL
752	Aldehyde C-11	143-14-6	ADHJK
754	Methyl (E)-2-(((3,5-dimethylcyclohex-3-en-1-yl)methylene)amino)benzoate	94022-83-0	DEFHJ
757	2,6,10-trimethylundec-9-enal	141-13-9	BDFHJK
758	Acetoxymethyl-isolongifolene (isomers)	59056-62-1	BDEFHJK
763	Acetate C9	143-13-5	BDEFHJKL
764	Acetarolle	744266-61-3	DFHJK
766	Acetaldehyde phenylethyl propyl acetal	7493-57-4	CEFHJK
767	Acetaldehyde dipropyl acetal	105-82-8	ACEFGIKL
768	Acetaldehyde benzyl 2-methoxyethyl acetal	7492-39-9	BCEFHJK
769	(Z)-2-(4-methylbenzylidene)heptanal	84697-09-6	DHJ
770	9-decenal	39770-05-3	ADHKL
771	8-Hexadecenolide	123-69-3	DGJ
772	7-Methoxycoumarin	531-59-9	CHK
774	7-epi-alpha-Selinene	123123-37-5	BDEFHJK
775	7-eip-alpha-Eudesmol	123123-38-6	DEFHJK
776	7-Acetyl-1,1,3,4,4,6-hexamethyltetralin	1506-02-1	DEFHJ
778	6-Isopropylquinoline	135-79-5	CEFHJK
781	6,6-dimethyl-2-norpinene-2-propionaldehyde	33885-51-7	BCFHJK
782	6,10,14-trimethyl-2-Pentadecanone	502-69-2	DEFHJK
786	5-Isopropenyl-2-methyl-2-vinyltetrahydrofuran	13679-86-2	ACGIJKL
788	5-Cyclohexadecenone	37609-25-9	DEFGJK
791	4-Terpinenol	562-74-3	BCHIJK
792	4-Pentenophenone	3240-29-7	BCEFHIK
800	4-Carvomenthenol	28219-82-1	BCHIJK
802	4,5,6,7-Tetrahydro-3,6-dimethylbenzofuran	494-90-6	BCEFHIJKL
803	4-(p-Methoxyphenyl)-2-butanone	104-20-1	BCEFHJK
804	3-Thujopsanone	25966-79-4	BDEFHJK
805	3-Propylidenephthalide	17369-59-4	CEFHK
806	3-Nonylacrolein	20407-84-5	BDFHJK
807	3-Methyl-5-phenyl-1-pentanal	55066-49-4	BDFHJK
814	3-Hexenyl isovalerate	10032-11-8	ADEFHJKL
821	3,6-Dimethyl-3-octanyl acetate	60763-42-0	ADEFHIJKL
824	3,4,5-trimethoxybenzaldehyde	86-81-7	BCGIK

826	3-(p-Isopropylphenyl)propionaldehyde	7775-00-0	BDFHJK
827	2-Undecenenitrile	22629-48-7	BDEFHJK
828	2-Undecenal	2463-77-6	ADHJK
829	2-trans-6-trans-Nonadienal	17587-33-6	ACHKL
831	2-Phenylethyl butyrate	103-52-6	DEFHJK
833	2-Phenyl-3-(2-furyl)prop-2-enal	57568-60-2	CHJ
834	2-Phenoxyethanol	122-99-6	BCEFGIK
837	2-Nonen-1-al	2463-53-8	ADHKL
839	2-Nonanol	628-99-9	BDEFGIKL
840	2-Nonanone	821-55-6	ADFHIKL
849	2-Isobutyl quinoline	93-19-6	CEFHJK
850	2-Hexylidene cyclopentanone	17373-89-6	DFHJKL
852	2-Heptyl tetrahydrofuran	2435-16-7	BDEFHJKL
856	2-Decenal	3913-71-1	ADHKL
864	2,6-Nonadienal	26370-28-5	ACHKL
865	2,6-Nonadien-1-ol	7786-44-9	ACEFHK
866	2,6-dimethyl-octanal	7779-07-9	ADFGIJKL
868	1-Decanol	112-30-1	BDEFGJK
869	1-Hepten-1-ol, 1-acetate	35468-97-4	ACEFHKL
870	10-Undecen-1-ol	112-43-6	DEFHJK
871	10-Undecenal	112-45-8	ADHJK
872	10-epi-gamma-Eudesmol	15051-81-7	DFHJK
873	1,8-Thiocineol	68391-28-6	ADEFHIJKL
876	1,3,5-undecatriene	16356-11-9	ADEFHJKL
877	1,2-Dihydrolinalool	2270-57-7	BCEFGIJKL
878	1,3,3-trimethyl-2-norbornanyl acetate	13851-11-1	ADEFHIJKL
879	1,1,2,3,3-Pentamethylindan	1203-17-4	ADHIJKL
881	(Z)-6,10-dimethylundeca-5,9-dien-2-yl acetate	3239-37-0	DEFHJK
884	(Z)-3-Dodecenal	68141-15-1	BCFHJK
885	(S)-gamma-Undecalactone	74568-05-1	DEFHJKL
886	(R)-gamma-Undecalactone	74568-06-2	DEFHJKL
890	(E)-6,10-dimethylundeca-5,9-dien-2-yl acetat	3239-35-8	DEFHJK
892	(2Z)-3-methyl-5-phenyl-2-Pentenenitrile	53243-59-7	DEFHJK
893	(2S,5S,6S)-2,6,10,10-tetramethyl-1-oxaspiro[4_5]decan-6-ol	65620-50-0	DFHIJK
894	(2E)-3-methyl-5-phenyl-2-pentenenitrile	53243-60-0	CEFHJK
897	(+)-Dihydrocarveol	22567-21-1	BCEFHIJKL
905	Menthone	89-80-5	ADEFGIJKL
908	(R,E)-2-methyl-4-(2,2,3-trimethylcyclopent-3-en-1-yl)but-2-en-1-ol	185068-69-3	CHJK

912	2-(8-isopropyl-6-methylbicyclo[2.2.2]oct-5-en-2-yl)-1,3-dioxolane	68901-32-6	DEFHJK
913	gamma-methyl ionone	7388-22-9	BDHIJK
914	3-(3-isopropylphenyl)butanal	125109-85-5	BDHJK
916	3-(1-ethoxyethoxy)-3,7-dimethylocta-1,6-diene	40910-49-4	BDEFHJK
919	3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl propionate	17511-60-3	CEFHJK
920	Bulnesol	22451-73-6	DEFHJK
922	Benzyl phenylacetate	102-16-9	DHJ
923	Benzoin	119-53-9	CEFHJ
924	(E)-1,2,4-trimethoxy-5-(prop-1-en-1-yl)benzene	2883-98-9	BCFGJK
925	alpha,alpha,6,6-tetramethyl bicyclo[3.1.1]hept-2-ene-propanal	33885-52-8	BDFHJK
926	7-epi-sesquithujene	159407-35-9	DEFHJKL
927	5-Acetyl-1,1,2,3,3,6-hexamethylindan	15323-35-0	DEFHJK
928	3-Methylphenethyl alcohol	1875-89-4	BCEFHIK
929	3,6-Nonadien-1-ol	76649-25-7	ACEFHK
930	2-Tridecenal	7774-82-5	BDFHJK
933	Patchouli alcohol	5986-55-0	DEFHIJK
937	p-Cresyl isobutyrate	103-93-5	BDHJK
939	p-Cresyl n-hexanoate	68141-11-7	DEFHJK
941	5-hexyl-4-methyldihydrofuran-2(3H)-one	67663-01-8	BDEFHIJKL
942	Ethyl (2Z,4E)-deca-2,4-dienoate	3025-30-7	BDEFHJK
943	Pelargene	68039-40-7	DEFHJK
945	2-cyclohexylidene-2-phenylacetonitrile	10461-98-0	DFHJK
946	Perillaldehyde	2111-75-3	ACHIJK
947	Perillyl acetate	15111-96-3	DFHJK
948	Perillyl alcohol	536-59-4	CHIJK
950	(2-isopropoxyethyl)benzene	68039-47-4	ACEFHJKL
951	Ethyl (2Z,4E)-deca-2,4-dienoate	313973-37-4	BDEFHJK
953	(2-(cyclohexyloxy)ethyl)benzene	80858-47-5	DEFHJK
954	Phenethyl 2-methylbutyrate	24817-51-4	DEFHJK
955	Phenethyl alcohol	60-12-8	BCEFGIK
959	Phenethyl phenylacetate	102-20-5	DHJ
962	Phenoxanol	55066-48-3	DEFHJK
965	Phenyl benzoate	93-99-2	DFHJK
967	Phenyl ethyl benzoate	94-47-3	DHJ
969	Phenylacetaldehyde ethyleneglycol acetal	101-49-5	BCEFGIK
973	2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)acetaldehyde	30897-75-7	ACFHIJKL
974	Pinocarveol	5947-36-4	BCEFGIJKL

976	Piperonyl acetone	55418-52-5	CEFGJ
978	3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl pivalate	68039-44-1	DEFHJK
980	(4aR,8aS)-7-methyloctahydro-1,4-methanonaphthalen-6(2H)-one	41724-19-0	CEFGJKL
982	p-Menth-3-en-1-ol	586-82-3	BCGIJK
985	(E)-3,3-dimethyl-5-(2,2,3-trimethylcyclopent-3-en-1-yl)pent-4-en-2-ol	107898-54-4	DHJK
988	1-methyl-4-(4-methylpent-3-en-1-yl)cyclohex-3-ene-1-carbaldehyde	52474-60-9	DFHJK
993	Propylene glycol	57-55-6	ACEFGIKL
998	p-Tolyl phenylacetate	101-94-0	DFHJ
1000	Ethyl 2,4,7-decatrienoate	78417-28-4	BDEFHJK
1003	2-benzyl-4,4,6-trimethyl-1,3-dioxane	67633-94-7	DEFHJK
1006	2,4-dimethyl-4-phenyltetrahydrofuran	82461-14-1	BDEFHJK
1007	(2R,4a'R,8a'R)-3,7'-dimethyl-3',4',4a',5',8',8a'-hexahydro-1'H-spiro[oxirane-2,2'-[1,4]methanonaphthalene]	41816-03-9	DEFHJK
1008	(Z)-6-ethylideneoctahydro-2H-5,8-methanochromene	93939-86-7	BCEFHJKL
1009	2-((S)-1-((S)-3,3-dimethylcyclohexyl)ethoxy)-2-oxoethyl propionate	236391-76-7	DFHJ
1010	Methyl 2,2-dimethyl-6-methylenecyclohexane-1-carboxylate	81752-87-6	ADHIJKL
1012	2-methyl-5-phenylpentan-1-ol	25634-93-9	DEFHJK
1016	4-methyl-2-phenyl-3,6-dihydro-2H-pyran	60335-71-9	BCEFGJK
1020	Sabinol	471-16-9	BCEFHIJKL
1021	Safrole	94-59-7	BCEFHK
1022	2,2,7,9-tetramethylspiro(5.5)undec-8-en-1-one	502847-01-0	DHIJK
1023	3-methyl-5-(2,2,3-trimethylcyclopent-3-en-1-yl)pentan-2-ol	65113-99-7	DEFHJK
1024	(Z)-2-ethyl-4-(2,2,3-trimethylcyclopent-3-en-1-yl)but-2-en-1-ol	28219-61-6	DEFHJK
1025	(E)-2-methyl-4-(2,2,3-trimethylcyclopent-3-en-1-yl)but-2-en-1-ol	28219-60-5	CHJK
1026	5-methoxyoctahydro-1H-4,7-methanoindene-2-carbaldehyde	86803-90-9	CHJK
1027	5-methoxyoctahydro-1H-4,7-methanoindene-2-carbaldehyde	193425-86-4	CHJK
1028	Sclareol	515-03-7	DEFHJ

1029	Sclareol oxide	5153-92-4	DEFHJK
1031	Selina-3,7(11)-diene	6813-21-4	DEFHJKL
1032	2-(1-(3,3-dimethylcyclohexyl)ethoxy)-2-methylpropyl cyclopropanecarboxylate	477218-42-1	DEFHJ
1033	3-(4-isobutylphenyl)-2-methylpropanal	6658-48-6	DHJK
1035	Spathulenol	6750-60-3	DEFHJK
1036	Spirambrene	533925-08-5	BCEFHJK
1037	Spirodecane	6413-26-9	BCEFGIJKL
1038	1-(spiro[4.5]dec-7-en-7-yl)pent-4-en-1-one	224031-70-3	DGJK
1042	2-(4-methylthiazol-5-yl)ethan-1-ol	137-00-8	CGIKL
1043	2-(heptan-3-yl)-1,3-dioxolane	4359-47-1	ACEFHIJKL
1045	(Z)-dodec-4-enal	21944-98-9	BDFHJK
1046	tau-Cadinol	5937-11-1	DEFHJK
1047	tau-Muurolol	19912-62-0	DEFHJK
1053	Tetrahydrojasmone	13074-63-0	BDFHIJKL
1057	2,6,10,10-tetramethyl-1-oxaspiro[4.5]dec-6-ene	36431-72-8	BDFHIJKL
1059	Thiomenthone	38462-22-5	BDEFHIJKL
1060	Thujopsene	470-40-6	BDEFGJKL
1062	Thymol methyl ether	1076-56-8	ADHIJKL
1063	1-(2,2,6-trimethylcyclohexyl)hexan-3-ol	70788-30-6	DEFHJK
1064	trans,trans-2,4-Nonadienal	5910-87-2	ACHKL
1065	trans,trans-Farnesol	106-28-5	DEFHJK
1066	trans-2,cis-6-Nonadienal	557-48-2	ACHKL
1067	trans-2-Decenal	3913-81-3	ADHKL
1070	trans-2-Nonen-1-al	18829-56-6	ADHKL
1072	trans-3, cis-6-nonadienol	56805-23-3	ACEFHK
1073	trans-4-Decen-1-al	65405-70-1	ADHKL
1075	trans-ambrettolide	51155-12-5	DGJ
1077	trans-beta-ocimene	13877-91-3	ADGIKL
1078	trans-beta-Ocimene	3779-61-1	ADGIKL
1082	trans-Geraniol	106-24-1	BCHIK
1083	trans-Hedione	2570-03-8	DFHJK
1085	7-(1,1-Dimethylethyl)-2H-1,5-benzodioxepin-3(4H)-one	195251-91-3	CEFHJ
1089	Tricyclone	68433-81-8	DEFHJK
1090	Tridecyl alcohol	112-70-9	DEFGJK
1091	Triethyl citrate	77-93-0	CEFGJ
1093	Methyl 2-((1-hydroxy-3-phenylbutyl)amino)benzoate	144761-91-1	DFHJ
1095	1-((2E,5Z,9Z)-2,6,10-trimethylcyclododeca-2,5,9-trien-1-yl)ethan-1-one	28371-99-5	DHJK

1097	Decahydro-2,6,6,7,8,8-hexamethyl-2h-indeno(4,5-b)furan	338735-71-0	BDEFHJK
1099	13-methyl oxacyclopentadec-10-en-2-one	365411-50-3	DEFHJK
1102	Undecanal	112-44-7	BDHJK
1104	(E)-4-methyldec-3-en-5-ol	81782-77-6	BDEFHIJK
1105	Valencene	4630-07-3	BDEFHJK
1107	Valerianol	20489-45-6	DEFHJK
1111	Vanillin isobutyrate	20665-85-4	CHJ
1113	Vaniwhite	5533-03-9	CGIK
1116	(Z)-2-methyl-4-(2,6,6-trimethylcyclohex-2-en-1-yl)but-2-enal	68555-62-4	BDFHJK
1117	Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	4707-47-5	CGIJ
1120	1-methoxy-3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoindene	27135-90-6	ACEFHJKL
1121	Methyl (Z)-2-((3-(4-(tert-butyl)phenyl)-2-methylpropylidene)amino)benzoate	91-51-0	DFHJ
1125	(Z)-hex-3-en-1-yl isobutyrate	41519-23-7	ADEFHJKL
1126	Vertacetal	5182-36-5	BCFHJK
1129	1-((3R,3aR,7R,8aS)-3,6,8,8-tetramethyl-2,3,4,7,8,8a-hexahydro-1H-3a,7-methanoazulen-5-yl)ethan-1-one	32388-55-9	DHJK
1131	Methyl (Z)-2-(((2,4-dimethylcyclohex-3-en-1-yl)methylene)amino)benzoate	68738-99-8	DEFHJ
1135	Vetiverol	89-88-3	CEFHIJK
1136	Vetivert Acetate	117-98-6	DEFHJK
1137	Decahydro-3H-spiro[furan-2,5'-[4,7]methanoindene]	68480-11-5	DEFGJKL
1138	(2Z,6E)-nona-2,6-dienenitrile	67019-89-0	ACEFHKL
1139	(Z)-cyclooct-4-en-1-yl methyl carbonate	87731-18-8	BCHJKL
1140	(1aR,4S,4aS,7R,7aS,7bS)-1,1,4,7-tetramethyldecahydro-1H-cyclopropa[e]azulen-4-ol	552-02-3	DEFHJK
1142	3,5,5,6,7,8,8-heptamethyl-5,6,7,8-tetrahydronaphthalene-2-carbonitrile	127459-79-4	DHJ
1143	(1S,2S,3S,5R)-2,6,6-trimethylspiro[bicyclo[3.1.1]heptane-3,1'-cyclohexan]-2'-en-4'-one	133636-82-5	DEFHJK
1144	1',1',5',5'-tetramethylhexahydro-2'H,5'H-spiro[[1,3]dioxolane-2,8'-[2,4a]methanonaphthalene]	154171-76-3	DEFHJK

1145	1',1',5',5'-tetramethylhexahydro-2'H,5'H-spiro[[1,3]dioxolane-2,8'-[2,4a]methanonaphthalene] K	154171-77-4	DEFHJK
1146	4-(4-hydroxy-3-methoxyphenyl)butan-2-one	122-48-5	CEFGJ
1147	(1R,8aR)-4-isopropyl-1,6-dimethyl-1,2,3,7,8,8a-hexahydronaphthalene	41929-05-9	DEFHJKL

Table 2

List of materials with at least one MORV greater than 5 to 10

Number	Material Name	CAS Number	Comment Code
2	2,4-dimethyl-2-(5,5,8,8-tetramethyl-5,6,7,8-tetrahydronaphthalen-2-yl)-1,3-dioxolane	131812-67-4	DFHJ
23	3a,5,6,7,8,8b-hexahydro-2,2,6,6,7,8,8-heptamethyl-4H-indeno(4,5-d)-1,3-dioxole	823178-41-2	DEFHJK
141	2,4-dimethyl-4,4a,5,9b-tetrahydroindeno[1,2-d][1,3]dioxine	27606-09-3	CEFHJK
185	(1-methyl-2-((1,2,2-trimethylbicyclo[3.1.0]hexan-3-yl)methyl)cyclopropyl)methanol	198404-98-7	DEFHJK
227	Isobornylcyclohexanol	68877-29-2	DEFHJK
230	Isobornyl cyclohexanol	66072-32-0	DEFHJK
246	Indol/Hydroxycitronellal Schiff base	67801-36-9	DEFHJ
248	Hydroxymethyl isolongifolene	59056-64-3	DEFHJK
343	8,8-dimethyl-3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl propionate	76842-49-4	DEFHJK
359	(E)-4-((3aR,4R,7R,7aR)-1,3a,4,6,7,7a-hexahydro-5H-4,7-methanoinden-5-ylidene)-3-methylbutan-2-ol	501929-47-1	DEFHJK
565	Cedryl methyl ether	19870-74-7	BDEFHJK
631	beta-Copaene	18252-44-3	BDEFHJKL
659	2'-isopropyl-1,7,7-trimethylspiro[bicyclo[2.2.1]heptane-2,4'-[1,3]dioxane]	869292-93-3	BDEFHJK
674	(4aR,5R,7aS,9R)-2,2,5,8,8,9a-hexamethyloctahydro-4H-4a,9-methanoazuleno[5,6-d][1,3]dioxole	211299-54-6	DEFHJK
678	(3S,5aR,7aS,11aS,11bR)-3,8,8,11a-tetramethyldodecahydro-5H-3,5a-epoxynaphtho[2,1-c]oxepine	57345-19-4	DEFHJ
679	2,2,6,6,7,8,8-heptamethyldecahydro-2H-indeno[4,5-b]furan	476332-65-7	DEFHJK
715	alpha-Cedrene epoxide	13567-39-0	BDEFHJK
758	Acetoxymethyl-isolongifolene (isomers)	59056-62-1	DEFHJK

1028	Sclareol	515-03-7	DEFHJ
1097	Decahydro-2,6,6,7,8,8-hexamethyl-2h-indeno(4,5-b)furan	338735-71-0	DEFHJK

Table 3
List of materials with at least one MORV from 0.5 to less than 1

Number	Material Name	CAS Number	Comment Code
12	1-ethoxy-4-(tert-pentyl)cyclohexane	181258-89-9	ADEFHJK
19	(3Z)-1-(2-buten-1-yloxy)-3-hexene	888744-18-1	ADEFHJKL
20	4-(2-methoxypropan-2-yl)-1-methylcyclohex-1-ene	14576-08-0	ADHIJKL
24	O-Methyl linalool	60763-44-2	ADHIJKL
26	o-Methoxycinnamaldehyde	1504-74-1	ACHK
27	Octanal, 3,7-dimethyl-	25795-46-4	ADGIJKL
53	3,3-Dimethyl-5(2,2,3-Trimethyl-3-Cyclopenten-1yl)-4-Penten-2-ol	329925-33-9	CEFHJ
54	n-Hexyl salicylate	6259-76-3	DEFHJ
55	n-Hexyl 2-butenoate	19089-92-0	ADEFHJKL
59	Neryl Formate	2142-94-1	BCEFHJK
72	Methyl-beta-ionone	127-43-5	DHJK
73	Myroxide	28977-57-3	ADGIJKL
81	(E)-3,7-dimethylocta-4,6-dien-3-ol	18479-54-4	BCEFGIJK
84	(Z)-hex-3-en-1-yl cyclopropanecarboxylate	188570-78-7	BCEFHIKL
96	Methyl phenyl carbinyl propionate	120-45-6	BCHJK
97	Methyl phenylacetate	101-41-7	ACEFHIKL
107	2-methyl-6-oxaspiro[4.5]decan-7-one	91069-37-3	BCEFGIKL
111	Methyl geraniate	2349-14-6	BCHJKL
115	2-ethoxy-4-(methoxymethyl)phenol	5595-79-9	CFGK
116	Methyl cyclopentylideneacetate	40203-73-4	ACEFHIKL
125	Methoxymelonal	62439-41-2	ACGIJK
133	((1s,4s)-4-isopropylcyclohexyl)methanol	13828-37-0	BDEFHIJK
147	Linalyl propionate	144-39-8	BDFHJK
150	Linalyl formate	115-99-1	ACFHJK
151	Linalyl butyrate	78-36-4	BDEFHJK
154	Linalyl acetate	115-95-7	BDHJK
157	Linalool	78-70-6	BCEFGIJK
163	(Z)-hex-3-en-1-yl methyl carbonate	67633-96-9	ACEFGKL

166	Lepidine	491-35-0	BCEFHIKL
169	L-Carvone	6485-40-1	ACGIJKL
181	Khusinil	75490-39-0	DHJK
191	Isoraldeine	1335-46-2	BDHIJK
194	Isopropylvinylcarbinol	4798-45-2	ACGIKL
198	Isopropyl 2-methylbutyrate	66576-71-4	ACEFGIJKL
201	Isopentyrate	80118-06-5	ADEFGIJKL
204	Isononyl acetate	40379-24-6	BDEFHJKL
205	Isononanol	27458-94-2	BDEFGIKL
213	Isoeugenyl acetate	93-29-8	CFHJK
214	Isoeugenol	97-54-1	CEFHIK
232	Isoborneol	124-76-5	ACEFHIJKL
237	Isoamyl octanoate	2035-99-6	DEFHJK
239	Isoamyl isobutyrate	2050-01-3	ACEFGIJKL
255	Hydrocinnamic acid	501-52-0	CEFHIK
258	Hydratopic alcohol	1123-85-9	BCEFHIK
264	Hexyl propanoate	2445-76-3	ADEFHIKL
270	Hexyl butyrate	2639-63-6	BDEFHJKL
273	Hexyl 2-methylbutanoate	10032-15-2	BDEFHJKL
275	Hexyl 2-furoate	39251-86-0	DEFHJK
282	Heptyl alcohol	111-70-6	ACEFGIKL
283	Heptyl acetate	112-06-1	ADEFHKL
284	Heptaldehyde	111-71-7	ACHIKL
287	Heliotropin	120-57-0	BCGIK
302	Geranyl nitrile	5146-66-7	BCEFHKL
306	Geranyl formate	105-86-2	BCEFHJK
308	Geranyl caprylate	51532-26-4	DEFHJ
310	Geranyl benzoate	94-48-4	DFHJ
312	Geranial	141-27-5	ACHIKL
314	N,2-dimethyl-N-phenylbutanamide	84434-18-4	BCEFHJK
319	gamma-Terpinene	99-85-4	ADEFGIJKL
346	2-(sec-butyl)cyclohexan-1-one	14765-30-1	ADFHIKL
354	3-(2-ethylphenyl)-2,2-dimethylpropanal	67634-14-4	BDHJK
355	2-(tert-butyl)cyclohexyl ethyl carbonate	67801-64-3	BDFHJK
365	2-(tert-butyl)cyclohexyl ethyl carbonate	81925-81-7	ACFHIKL
366	Fenchyl alcohol	1632-73-1	ACGIJKL
376	Eucalyptol	470-82-6	ADEFGIJKL
379	Ethyl vanillin acetate	72207-94-4	CHJ
387	Ethyl octanoate	106-32-1	BDEFHJKL
400	Ethyl cinnamate	103-36-6	BCEFHK
412	Ethyl 2-(cyclohexyl)propionate	2511-00-4	BDFHIJKL
419	d-p-8(9)-Menthen-2-one	5524-05-0	ACGIJKL

420	4-methyl-2-phenyltetrahydro-2H-pyran	94201-73-7	BDEFHJK
437	Dihydromyrcenol	18479-58-8	ADEFGIJK
438	Dihydrojasmone	1128-08-1	BCFHIJKL
439	Dihydroisophorone	873-94-9	ACEFGIJKL
440	Dihydroeugenol	2785-87-7	CEFHIJK
442	Dihydrocoumarin	119-84-6	BCGIKL
443	Dihydrocarvone	7764-50-3	ACGIJKL
447	Dihydro-alpha-terpinyl acetate	80-25-1	BDEFHIJKL
448	Dihydro-alpha-ionone	31499-72-6	BDHIJK
454	Dibenzyl ether	103-50-4	DEFHJK
455	Dibutyl o-phthalate	84-74-2	DEFHJ
469	2-pentylcyclopentan-1-one	4819-67-4	BDFHIKL
472	Decyl anthranilate	18189-07-6	DEFHJ
477	Methyl (1s,4s)-1,4-dimethylcyclohexane-1-carboxylate	23059-38-3	ADEFHIJKL
481	Cyclohexylethyl acetate	21722-83-8	BDEFHJKL
492	Creosol	93-51-6	BCHIK
495	Cosmene	460-01-5	ADEFGIKL
496	4-cyclohexyl-2-methylbutan-2-ol	83926-73-2	BDEFGIJK
504	2-benzyl-2-methylbut-3-enenitrile	97384-48-0	BDHJK
509	Citronellyl nitrile	51566-62-2	BCEFGIKL
510	Citronellyl phenylacetate	139-70-8	DFHJ
512	Citronellyl formate	105-85-1	BCEFGJKL
515	Citronellyl benzoate	10482-77-6	DFHJ
517	Citronellol	106-22-9	BCHIJKL
518	Citronellal	106-23-0	ACHIJKL
522	Citral	5392-40-5	ACHIKL
525	cis-Pinane	6876-13-7	ADEFGIJKL
526	(Z)-3-methyl-2-(pent-2-en-1-yl)cyclopent-2-en-1-one	488-10-8	BCHIJKL
528	cis-iso-Eugenol	5912-86-7	CEFHIK
535	cis-3-Hexenyl valerate	35852-46-1	BDEFHJKL
536	cis-3-Hexenyl tiglate	67883-79-8	BDEFHJK
538	cis-3-Hexenyl propionate	33467-74-2	ACEFHIKL
540	cis-3-Hexenyl butyrate	16491-36-4	ADEFHJKL
542	cis-3-Hexen-1-ol	928-96-1	ACEFHIKL
547	cis-2-Hexenol	928-94-9	ACEFHIKL
549	Cinnamyl nitrile	4360-47-8	ACEFGIK
554	Cinnamic aldehyde	104-55-2	ACHIK
556	Cinnamyl nitrile	1885-38-7	ACEFGIK
557	Chloroxylenol	88-04-0	BCHIJK
575	Carvacrol	499-75-2	DHIJK
576	Carvone	99-49-0	ACGIJKL

579	Carbitol	111-90-0	BCEFGIK
583	Caproyl alcohol	111-27-3	ACEFGIKL
585	2-(2,2,3-trimethylcyclopent-3-en-1-yl)acetonitrile	15373-31-6	ACGIJKL
588	Camphor	76-22-2	ACEFGIJKL
602	(E)-2-methyl-4-(2,6,6-trimethylcyclohex-1-en-1-yl)but-2-enal	3155-71-3	DHJK
605	Borneol	507-70-0	ACEFHIJKL
617	beta-Pinene epoxide	6931-54-0	ACEFGIJKL
619	beta-Phellandrene	555-10-2	ADEFGIJKL
640	Benzylacetone	2550-26-7	ACEFGIK
641	Benzyl salicylate	118-58-1	DFGJ
645	Benzyl isovalerate	103-38-8	BDEFHJK
647	Benzyl isobutyrate	103-28-6	BCHJK
651	Benzyl butyrate	103-37-7	BCEFHJK
652	Benzyl alcohol	100-51-6	ACEFGIKL
662	1-(3,3-dimethylcyclohexyl)ethyl formate	25225-08-5	ADEFHIJKL
664	Anisyl acetate	104-21-2	BCEFGK
665	Anisyl formate	122-91-8	BCEFGK
667	Anethole	104-46-1	ACEFHK
672	Amyl benzoate	2049-96-9	DEFHJK
687	alpha-Terpinyl acetate	80-26-2	BDHJK
699	alpha-methyl-cyclohexanepropanol	10528-67-3	BDEFHIK
701	alpha-methyl cinnamaldehyde	101-39-3	ACHIK
703	alpha-Isomethylionone	127-51-5	BDHIJK
740	2,5-Dimethyl-4-methoxy-3(2H)-furanone	4077-47-8	ACEFGIJKL
743	Allyl phenoxyacetate	7493-74-5	BCGK
744	Allyl Phenethyl ether	14289-65-7	ACEFHK
745	Allyl heptanoate	142-19-8	ADEFHJKL
755	N-ethyl-N-(m-tolyl)propionamide	179911-08-1	CEFHJK
760	3-hydroxybutan-2-one	513-86-0	ACEFGIKL
761	Acetoanisole	100-06-1	BCEFHIK
777	6-Methylquinoline	91-62-3	BCEFHIKL
779	6,8-Diethyl-2-nonanol	70214-77-6	BDEFGIJKL
784	5-Methyl-3-heptanone	541-85-5	ACFGIKL
789	4-Vinylphenol	2628-17-3	BCHIK
796	4-hydroxy-3-methoxy-cinnamaldehyde	458-36-6	CH
797	4-Ethylguaiacol	2785-89-9	CEFHIK
799	4-Damascol	4927-36-0	BDFHJK
808	3-methyl-4-phenylpyrazole	13788-84-6	CEFHK

810	3-Methyl-1,2-cyclopentanedione	765-70-8	ACEFGIKL
811	3-Methoxy-5-methylphenol	3209-13-0	BCHIK
812	3-Methoxy-3-Methyl Butanol	56539-66-3	ACGIKL
817	3-Hexenol	544-12-7	ACEFHIKL
819	3,7-dimethyl-2-methylene-6-octenal	22418-66-2	ADFHIJK
820	3,7-dimethyl-1-octanol	106-21-8	BDEFGIJKL
832	2-Phenylethyl acetate	103-45-7	BCEFHK
835	2-Phenethyl propionate	122-70-3	BCEFHJK
836	2-Pentylcyclopentan-1-ol	84560-00-9	DEFHIKL
838	2-nonanone propylene glycol acetal	165191-91-3	BDEFHJK
845	2-Methoxy-3-(1-methylpropyl)pyrazine	24168-70-5	BCEFGIK
846	2-isopropyl-N,2,3-trimethylbutyramide	51115-67-4	ACEFGIJK
847	2-Isopropyl-5-methyl-2-hexenal	35158-25-9	ADFGIJKL
848	2-Isopropyl-4-methylthiazole	15679-13-7	ACHIJKL
851	2-Hexen-1-ol	2305-21-7	ACEFHIKL
858	2-Butoxyethanol	111-76-2	ACEFGIKL
875	1,4-Cineole	470-67-7	ADGIJKL
880	1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	43052-87-5	BDHIJK
882	(Z)-3-hepten-1-yl acetate	1576-78-9	ACEFHKL
883	(S)-(1R,5R)-4,6,6-trimethylbicyclo[3.1.1]hept-3-en-2-one	1196-01-6	ACEFGIJKL
888	(R)-(-)-Linalool	126-91-0	BCEFGIJK
889	(l)-Citronellal	5949-05-3	ACHIJKL
891	(d)-Citronellal	2385-77-5	ACHIJKL
899	(+)-Citronellol	1117-61-9	BCHIJKL
900	(-)-Citronellol	7540-51-4	BCHIJKL
901	(+)-alpha-Pinene	7785-70-8	ADEFGIJKL
902	(+)-Carvone	2244-16-8	ACGIJKL
903	(-)-alpha-Pinene	7785-26-4	ADEFGIJKL
904	Methyl 2-methylbutyrate	868-57-5	ACEFGIKL
909	Hexyl tiglate	16930-96-4	BDEFHJKL
918	Allyl 2-(cyclohexyloxy)acetate	68901-15-5	CHJK
921	1,5-dimethylbicyclo[3.2.1]octan-8-one oxime	75147-23-8	CFHIJK
931	alpha-acetoxystyrene	2206-94-2	ACEFHIK
940	p-Cymene	99-87-6	ADGIJKL
956	Phenethyl formate	104-62-1	ACEFHK

958	Phenethyl isobutyrate	103-48-0	DHJK
960	Phenethyl tiglate	55719-85-2	DHJK
971	Phenylethyl methacrylate	3683-12-3	DHJK
977	p-Isopropylphenylacetaldehyde	4395-92-0	BDFHK
981	1,2-dimethyl-3-(prop-1-en-2-yl)cyclopentan-1-ol	72402-00-7	BCEFGIJKL
983	p-Methoxyphenylacetone	122-84-9	BCEFHK
986	(2Z,5Z)-5,6,7-trimethylocta-2,5-dien-4-one	358331-95-0	ADHIJKL
987	p-Propyl anisole	104-45-0	ADEFHKL
994	p-t-butyl phenyl acetaldehyde	109347-45-7	BDHJK
995	p-tert-Amyl cyclohexanol	5349-51-9	BDEFHIJK
1001	Racemic alpha-Pinene	80-56-8	ADEFGIJKL
1002	4-(4-hydroxyphenyl)butan-2-one	5471-51-2	CEFGIK
1004	Rhodinol	141-25-3	BCHIJKL
1005	Ethyl (2,3,6-trimethylcyclohexyl) carbonate	93981-50-1	BDEFHJKL
1011	1-(3,3-dimethylcyclohexyl)ethyl acetate	25225-10-9	ADHIJKL
1017	S)-(+)-Linalool	126-90-9	BCEFGIJK
1018	Sabinene	3387-41-5	ADEFGIJKL
1019	Sabinene hydrate	546-79-2	ADEFGIJKL
1030	Propyl (S)-2-(tert-pentyloxy)propanoate	319002-92-1	BDEFHJK
1039	Spirolide	699-61-6	BCGIKL
1040	(Z)-5-methylheptan-3-one oxime	22457-23-4	BCEFGIJKL
1041	1-phenylethyl acetate	93-92-5	ACEFHIK
1051	Tetrahydrogeranial	5988-91-0	ADGIJKL
1052	Tetrahydroionol	4361-23-3	BDEFHIJK
1054	Tetrahydrolinalool	78-69-3	BDEFGIJKL
1055	Tetrahydrolinalyl acetate	20780-48-7	ADEFHJKL
1058	Ethyl (1R,6S)-2,2,6-trimethylcyclohexane-1-carboxylate	22471-55-2	ADEFHIJKL
1061	Thymol	89-83-8	BDHIJK
1069	trans-2-Hexenol	928-95-0	ACEFHIKL
1071	trans-2-tert-Butylcyclohexanol	5448-22-6	ACGIJKL
1074	trans-alpha-Damascone	24720-09-0	BDHIJK
1076	trans-Anethole	4180-23-8	ACEFHK
1079	trans-Cinnamic acid	140-10-3	CEFHK
1081	trans-Dihydrocarvone	5948-04-9	ACGIJKL
1084	trans-Isoeugenol	5932-68-3	CEFHIK

1088	Trichloromethyl phenyl carbinyl acetate	90-17-5	BDEFGJ
1098	2-mercapto-2-methylpentan-1-ol	258823-39-1	ACEFHIJKL
1110	Vanillin acetate	881-68-5	CH
1112	Vanitrope	94-86-0	CEFHK
1115	2,2,5-trimethyl-5-pentylcyclopentan-1-one	65443-14-3	BDFGIJKL
1118	Veratraldehyde	120-14-9	BCGIK
1119	(1R,5R)-4,6,6-trimethylbicyclo[3.1.1]hept-3-en-2-one	18309-32-5	ACEFGIJKL
1122	Verdol	13491-79-7	ACGIJKL
1127	4-(tert-butyl)cyclohexyl acetate	10411-92-4	BDEFHJK
1128	4-(tert-butyl)cyclohexyl acetate	32210-23-4	BDEFHJK
1133	Vethymine	7193-87-5	CEFGK
1134	4-methyl-4-phenylpentan-2-yl acetate	68083-58-9	BDFHJK
1141	(Z)-1-((2-methylallyl)oxy)hex-3-ene	292605-05-1	ADEFHKL

Table 4

List of materials with ALL MORVs from 1 to 5

Number	Material Name	CAS Number	Comment Code
7	3-methoxy-7,7-dimethyl-10-methylenebicyclo[4.3.1]decane	216970-21-7	BDEFHJK
14	Oxyoctaline formate	65405-72-3	DFHJK
39	2,2,6,8-tetramethyl-1,2,3,4,4a,5,8,8a-octahydronaphthalen-1-ol	103614-86-4	DEFHIJK
48	Nootkatone	4674-50-4	DHJK
183	Khusimol	16223-63-5	CEFHJK
199	Isopimpinellin	482-27-9	CFGJ
206	Iso3-methylcyclopentadecan-1-one	3100-36-5	DEFGJK
212	Isoeugenyl benzyl ether	120-11-6	DFHJ
215	1-((2S,3S)-2,3,8,8-tetramethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-yl)ethan-1-one	54464-57-2	DHJK
229	Isobornyl isobutyrate	85586-67-0	BDEFHIJK
260	2,3-dihydro-3,3-dimethyl-1H-indene-5-propanal	173445-44-8	DHJK
261	3-(3,3-dimethyl-2,3-dihydro-1H-inden-5-yl)propanal	173445-65-3	DHJK
281	3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl acetate	5413-60-5	CEFGJK
329	gamma-Eudesmol	1209-71-8	DFHJK
335	4,6,6,7,8,8-hexamethyl-1,3,4,6,7,8-hexahydrocyclopenta[g]isochromene	1222-05-5	DEFHJK

353	(Z)-6-ethylideneoctahydro-2H-5,8-methanochromen-2-one	69486-14-2	CEFGJK
360	8,8-dimethyl-3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl acetate	171102-41-3	DEFHJK
441	Octahydro-1H-4,7-methanoinden-5-yl acetate	64001-15-6	DEFHJKL
484	3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl butyrate	113889-23-9	DEFHJK
487	3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-5-yl isobutyrate	67634-20-2	DEFHJK
488	Curzerene	17910-09-7	DHJK
501	(E)-cycloheptadec-9-en-1-one	542-46-1	DEFGJ
566	Cedryl formate	39900-38-4	BDEFHJK
567	Cedryl acetate	77-54-3	DEFHJK
569	Cedrol	77-53-2	DEFHJK
570	5-methyl-1-(2,2,3-trimethylcyclopent-3-en-1-yl)-6-oxabicyclo[3.2.1]octane	139539-66-5	DEFHJK
573	Caryophyllene alcohol acetate	32214-91-8	DEFHJK
574	Caryolan-1-ol	472-97-9	DEFHJK
603	Bornyl isobutyrate	24717-86-0	BDEFHIJK
616	beta-Santalol	77-42-9	DEFHJK
621	beta-Patchoulline	514-51-2	BDEFGJKL
624	beta-Himachalene Oxide	57819-73-5	BDFHJK
627	(2,2-dimethoxyethyl)benzene	101-48-4	DHJK
632	beta-Cedrene	546-28-1	BDEFGJKL
663	Anisyl phenylacetate	102-17-0	DFHJ
680	2,2,6,6,7,8,8-heptamethyldecahydro-2H-indeno[4,5-b]furan	647828-16-8	ADEFHJK
684	alpha-Vetivone	15764-04-2	DHJK
694	alpha-Santalol	115-71-9	DEFHJK
696	alpha-Patchoulene	560-32-7	ADEFHJKL
708	alpha-Gurjunene	489-40-7	BDEFHJKL
712	alpha-Eudesmol	473-16-5	DEFHJK
714	alpha-Cubebene	17699-14-8	ADEFHJKL
726	alpha-Agarofuran	5956-12-7	BDEFHJK
750	Allo-aromadendrene	25246-27-9	BDEFHJKL
764	Acetarolle	744266-61-3	DFHJK
775	7-eip-alpha-Eudesmol	123123-38-6	DEFHJK
776	7-Acetyl-1,1,3,4,4,6-hexamethyltetralin	1506-02-1	DEFHJ
788	5-Cyclohexadecenone	37609-25-9	DEFGJK
804	3-Thujopsanone	25966-79-4	BDEFHJK
872	10-epi-gamma-Eudesmol	15051-81-7	DFHJK
919	3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl propionate	17511-60-3	CEFHJK

927	5-Acetyl-1,1,2,3,3,6-hexamethylindan	15323-35-0	DEFHJK
933	Patchouli alcohol	5986-55-0	DEFHIJK
978	3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl pivalate	68039-44-1	DEFHJK
1007	(2R,4a'R,8a'R)-3,7'-dimethyl-3',4',4a',5',8',8a'-hexahydro-1'H-spiro[oxirane-2,2'-[1,4]methanonaphthalene]	41816-03-9	DEFHJK
1022	2,2,7,9-tetramethylspiro(5.5)undec-8-en-1-one	502847-01-0	DHIJK
1024	(Z)-2-ethyl-4-(2,2,3-trimethylcyclopent-3-en-1-yl)but-2-en-1-ol	28219-61-6	DEFHJK
1027	5-methoxyoctahydro-1H-4,7-methanoindene-2-carbaldehyde	193425-86-4	CHJK
1029	Sclareol oxide	5153-92-4	DEFHJK
1035	Spathulenol	6750-60-3	DEFHJK
1038	1-(spiro[4.5]dec-7-en-7-yl)pent-4-en-1-one	224031-70-3	DGJK
1060	Thujopsene	470-40-6	BDEFGJKL
1089	Tricyclone	68433-81-8	DEFHJK
1107	Valerianol	20489-45-6	DEFHJK
1129	1-((3R,3aR,7R,8aS)-3,6,8,8-tetramethyl-2,3,4,7,8,8a-hexahydro-1H-3a,7-methanoazulen-5-yl)ethan-1-one	32388-55-9	DHJK
1131	Methyl (Z)-2-(((2,4-dimethylcyclohex-3-en-1-yl)methylene)amino)benzoate	68738-99-8	DEFHJ
1136	Vetivert Acetate	117-98-6	DEFHJK
1137	Decahydro-3H-spiro[furan-2,5'-[4,7]methanoindene]	68480-11-5	DEFGJKL
1140	(1aR,4S,4aS,7R,7aS,7bS)-1,1,4,7-tetramethyldecahydro-1H-cyclopropa[e]azulen-4-ol	552-02-3	DEFHJK
1142	3,5,5,6,7,8,8-heptamethyl-5,6,7,8-tetrahydronaphthalene-2-carbonitrile	127459-79-4	DHJ
1143	(1S,2S,3S,5R)-2,6,6-trimethylspiro[bicyclo[3.1.1]heptane-3,1'-cyclohexan]-2'-en-4'-one	133636-82-5	DEFHJK
1144	1',1',5',5'-tetramethylhexahydro-2'H,5'H-spiro[[1,3]dioxolane-2,8'-[2,4a]methanonaphthalene]	154171-76-3	DEFHJK
1145	1',1',5',5'-tetramethylhexahydro-2'H,5'H-spiro[[1,3]dioxolane-2,8'-[2,4a]methanonaphthalene] K	154171-77-4	DEFHJK

Table 5
List of materials with ALL MORVs greater than 5 to 10

Number	Material Name	CAS Number	Comment Code
248	Hydroxymethyl isolongifolene	59056-64-3	BDEFHJK

Table 6
List of materials with ALL MORVs from 0.5 to less than 1

Number	Material Name	CAS Number	Comment Code
472	Decyl anthranilate	18189-07-6	DEFHJ
526	(Z)-3-methyl-2-(pent-2-en-1-yl)cyclopent-2-en-1-one	488-10-8	BCHIJKL

Compositions and Methods

A composition comprising a malodor reduction material having an MORV of at least 0.5, from about 0.5 to about 10, from 0.5 to about 10, from about 1 to about 10, or from about 1 to about 5 is disclosed.

In one aspect, said composition comprises a malodor reduction material is selected from the group consisting of Table 1 materials Table 2 materials, Table 3 materials and mixtures thereof; in one aspect said material is selected from the group consisting of Table 1 materials 3; 4; 7; 9; 21; 25; 29; 30; 31; 32; 33; 34; 35; 42; 49; 50; 62; 64; 65; 67; 70; 91; 92; 93; 98; 101; 102; 103; 108; 110; 114; 117; 119; 122; 123; 126; 130; 142; 145; 146; 149; 155; 159; 167; 168; 170; 178; 186; 189; 190; 192; 193; 208; 209; 210; 218; 228; 229; 231; 243; 254; 256; 259; 267; 274; 278; 280; 281; 290; 294; 317; 318; 322; 325; 333; 338; 342; 344; 358; 362; 364; 375; 386; 394; 397; 398; 415; 421; 424; 428; 429; 436; 441; 444; 445; 449; 453; 461; 466; 468; 471; 473; 474; 475; 491; 519; 520; 524; 527; 530; 531; 532; 534; 544; 546; 551; 555; 565; 578; 580; 581; 584; 586; 587; 589; 603; 604; 606; 609; 611; 612; 614; 615; 618; 621; 627; 628; 631; 632; 633; 639; 649; 659; 668; 683; 686; 692; 693; 696; 698; 702; 708; 711; 714; 715; 717; 720; 725; 730; 738; 742; 748; 750; 752; 763; 766; 767; 768; 770; 774; 778; 781; 786; 791; 792; 800; 802; 806; 814; 821; 826; 827; 828; 829; 834; 837; 839; 840; 850; 852; 856; 864; 865; 866; 868; 869; 871; 873; 876; 877; 878; 879; 884; 897; 905; 914; 926; 928; 929; 937; 946; 947; 950; 955; 969; 973; 974; 982; 993; 1006; 1008; 1010; 1016; 1020; 1021; 1031; 1037; 1043; 1045; 1053; 1057; 1060; 1062; 1064; 1066; 1067; 1070; 1072; 1073; 1077; 1078; 1082; 1102; 1104; 1105; 1120; 1125; 1137; 1138; 1144; 1145, Table 2 materials 565; 631; 659; 715, Table 3 materials 9; 12; 19; 20; 21; 24; 25; 27; 32; 34; 53; 55; 59; 64; 65; 70; 73; 81; 84; 96; 97; 98; 108; 110; 111; 114; 116; 119; 125; 126; 133; 142; 146; 147; 150; 154; 157; 159; 163; 166; 167; 169; 178; 189; 192; 194;

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In another aspect, said composition comprises a malodor reduction material selected from the group consisting of Table 1 materials 3; 7; 9; 25; 29; 30; 32; 33; 34; 35; 42; 49; 62; 65; 67; 70; 91; 92; 98; 101; 102; 103; 108; 110; 114; 117; 119; 122; 126; 130; 142; 145; 159; 167; 168; 178; 186; 189; 190; 192; 193; 208; 209; 210; 218; 228; 229; 231; 243; 254; 256; 259; 267; 274; 278; 280; 281; 290; 294; 322; 325; 333; 338; 342; 344; 358; 362; 386; 394; 397; 415; 421; 424; 428; 429; 436; 441; 444; 445; 449; 453; 461; 468; 471; 473; 474; 475; 519; 520; 527; 530; 534; 544; 546; 551; 555; 565; 578; 580; 581; 587; 589; 603; 604; 606; 609; 614; 615; 618; 621; 628; 631; 632; 633; 639; 649; 659; 668; 683; 686; 692; 693; 696; 698; 702; 708; 711; 714; 715; 717; 720; 725; 730; 748; 750; 763; 766; 767; 768; 774; 778; 781; 792; 802; 806; 814; 821; 826; 827; 834; 839; 840; 850; 852; 865; 866; 868; 869; 873; 876; 877; 878; 884; 897; 905; 926; 928; 929; 950; 955; 969; 973; 974; 993; 1006; 1008; 1016; 1020; 1021; 1031; 1037; 1043; 1045; 1053; 1057; 1060; 1072; 1104; 1105; 1120; 1125; 1137; 1138; 1144; 1145 and table 3 materials 9; 12; 19; 21; 25; 32; 34; 53; 55; 59; 65; 70; 81; 84; 97; 98; 108; 110; 114; 116; 119; 126; 133; 142; 147; 150; 157; 159; 163; 166; 167; 178; 189; 192; 198; 201; 204; 205; 228; 231; 232; 237; 239;

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In another aspect, said composition comprises a malodor reduction material selected from the group consisting of Table 1 materials 1; 2; 3; 7; 9; 10; 11; 13; 14; 18; 21; 22; 23; 25; 28; 29; 30; 31; 32; 33; 35; 36; 38; 39; 47; 48; 49; 50; 52; 57; 62; 63; 64; 67; 68; 69; 71; 74; 75; 76; 77; 78; 79; 80; 83; 85; 91; 92; 93; 100; 101; 102; 103; 104; 105; 109; 114; 119; 120; 122; 123; 128; 134; 135; 137; 140; 142; 145; 148; 149; 152; 153; 158; 159; 161; 162; 174; 175; 176; 177; 178; 182; 183; 184; 185; 186; 189; 192; 195; 196; 197; 206; 208; 209; 210; 211; 212; 215; 221; 227; 228; 229; 230; 231; 233; 234; 238; 242; 243; 244; 246; 252; 253; 260; 261; 263; 267; 269; 271; 274; 276; 277; 280; 285; 289; 290; 292; 293; 294; 295; 296; 300; 301; 303; 307; 316; 317; 318; 322; 324; 325; 328; 329; 330; 331; 333; 334; 335; 336; 338; 339; 342; 343; 344; 349; 352; 356; 358; 359; 360; 361; 362; 363; 364; 368; 369; 370; 371; 372; 378; 381; 385; 386; 388; 390; 391; 397; 398; 413; 414; 416; 418; 421; 424; 426; 428; 429; 432; 441; 444; 449; 453; 457; 459; 461; 462; 463; 465; 466; 467; 468; 470; 471; 473; 475; 478; 479; 480; 482; 484; 486; 487; 488; 497; 498; 501; 502; 503; 505; 519; 520; 521; 524; 529; 532; 534; 537; 541; 544; 548; 550; 552; 558; 559; 560; 561; 562; 563; 565; 566; 567; 568; 569; 570; 571; 572; 573; 574; 577; 578; 582; 584; 589; 591; 592; 594; 599; 600; 601; 603; 604; 606; 607; 608; 609; 610; 611; 613; 614; 615; 616; 618; 620; 621; 624; 625; 626; 628; 631; 632; 633; 635; 644; 650; 653; 659; 660; 661; 663; 671; 673; 674; 675; 676; 677; 678; 679; 680; 681; 684; 686; 691; 692; 693; 694; 696; 697; 698; 700; 702; 704; 706; 707; 708; 709; 710; 711; 712; 713; 714; 715; 716; 717; 718; 719; 720; 721; 722; 723; 724; 725; 726; 727; 731; 741; 746; 750; 752; 754; 757; 758; 763; 766; 769; 770; 771; 774; 775; 776; 778; 781; 782; 788; 791; 800; 802; 804; 806; 814; 821; 826; 827; 828; 831; 837; 839; 840; 849; 850; 852; 856; 866; 868; 869; 870; 871; 872; 873; 876; 877; 878; 879; 881; 884; 885; 886; 890; 892; 893; 894; 905; 908; 912; 913; 914; 916; 919; 920; 922; 925; 926; 927; 930; 933; 939; 941; 942; 943; 945; 947; 948; 950; 951; 953; 954; 959; 965; 967; 973; 978; 985; 988; 998; 1000; 1003; 1006; 1007; 1008; 1009; 1010; 1016; 1022; 1023; 1024; 1025; 1028; 1029; 1031;

1032; 1033; 1035; 1038; 1045; 1046; 1047; 1053; 1057; 1060; 1062; 1063; 1065; 1067; 1070; 1073; 1075; 1077; 1078; 1082; 1089; 1090; 1093; 1095; 1097; 1099; 1102; 1104; 1105; 1107; 1116; 1120; 1121; 1126; 1129; 1131; 1135; 1136; 1137; 1138; 1140; 1142; 1143; 1144; 1145; 1147, Table 2 materials 2; 23; 185; 227; 230; 246; 248; 343; 359; 565; 631; 659; 674; 678; 679; 715; 758; 1028; 1097; and Table 3 materials 1; 9; 12; 13; 19; 20; 21; 24; 25; 27; 32; 38; 54; 55; 59; 64; 68; 71; 72; 79; 81; 83; 85; 100; 105; 109; 111; 114; 119; 133; 134; 135; 137; 140; 142; 147; 148; 150; 151; 152; 153; 154; 157; 159; 162; 178; 181; 189; 191; 192; 195; 197; 204; 211; 228; 231; 233; 234; 237; 238; 242; 246; 252; 264; 270; 273; 275; 277; 283; 285; 289; 290; 292; 293; 295; 300; 301; 302; 306; 308; 310; 312; 319; 322; 325; 331; 333; 334; 336; 338; 339; 344; 346; 354; 355; 356; 358; 361; 362; 363; 370; 371; 372; 378; 381; 385; 387; 388; 390; 412; 413; 418; 420; 428; 429; 432; 437; 438; 444; 447; 448; 454; 455; 457; 461; 465; 467; 472; 477; 478; 479; 480; 481; 482; 495; 496; 497; 502; 503; 504; 509; 510; 512; 515; 517; 518; 522; 525; 529; 535; 536; 537; 540; 541; 544; 550; 557; 558; 559; 560; 561; 568; 571; 572; 575; 589; 592; 594; 599; 600; 602; 604; 609; 619; 620; 625; 626; 633; 641; 644; 645; 650; 653; 662; 667; 672; 673; 675; 676; 681; 686; 687; 693; 697; 698; 700; 703; 704; 706; 707; 716; 717; 718; 722; 725; 744; 745; 746; 757; 769; 771; 779; 782; 799; 806; 819; 820; 827; 828; 836; 838; 839; 847; 850; 875; 878; 879; 880; 881; 888; 889; 890; 891; 893; 899; 900; 901; 903; 909; 912; 914; 920; 922; 930; 939; 940; 941; 945; 947; 948; 953; 954; 958; 959; 960; 965; 967; 971; 986; 987; 994; 995; 998; 1000; 1001; 1003; 1005; 1008; 1009; 1010; 1011; 1017; 1018; 1023; 1031; 1032; 1046; 1047; 1051; 1052; 1053; 1054; 1055; 1057; 1058; 1061; 1062; 1063; 1074; 1075; 1076; 1082; 1088; 1093; 1095; 1099; 1102; 1104; 1105; 1115; 1116; 1120; 1127; 1128; 1134; 1135; 1141; 1147 and mixtures thereof , in one aspect, said composition comprises a material selected from the group consisting of Table 1 materials 1; 2; 3; 7; 9; 10; 11; 13; 14; 18; 21; 22; 23; 25; 28; 29; 30; 31; 32; 35; 36; 38; 39; 47; 48; 49; 50; 52; 57; 62; 63; 64; 67; 68; 69; 71; 74; 75; 76; 77; 78; 79; 80; 83; 85; 91; 92; 93; 100; 101; 102; 103; 104; 105; 109; 114; 120; 122; 123; 128; 134; 135; 137; 140; 142; 145; 148; 149; 152; 153; 158; 159; 161; 162; 174; 175; 176; 177; 178; 182; 183; 184; 185; 186; 189; 192; 195; 196; 197; 206; 208; 209; 210; 211; 212; 215; 221; 227; 228; 229; 230; 231; 233; 234; 238; 242; 243; 244; 246; 252; 253; 260; 261; 263; 267; 269; 271; 274; 276; 277; 280; 285; 289; 290; 292; 293; 294; 295; 296; 300; 301; 303; 307; 316; 317; 318; 322; 324; 325; 328; 329; 330; 331; 333; 334; 335; 336; 338; 339; 342; 343; 344; 349; 352; 356; 358; 359; 360; 361; 362; 363; 364; 368; 369; 370; 371; 372; 378; 381; 385; 386; 388; 390; 391; 397; 398; 413; 414; 416; 418; 421; 424; 426; 428; 429; 432; 441; 444; 449; 453; 457; 459; 461; 462; 463; 465; 466; 467; 468; 470; 471; 473; 475; 478; 479; 480; 482; 484; 486; 487; 488; 497; 498; 501; 502; 503;

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In another aspect, said composition comprises a malodor reduction material selected from the group consisting of Table 1 materials 4; 13; 16; 17; 18; 21; 32; 33; 34; 35; 37; 42; 49; 57; 76; 126; 145; 156; 167; 168; 174; 190; 199; 206; 208; 210; 242; 247; 249; 259; 277; 281; 286; 289; 318; 353; 370; 371; 372; 373; 378; 407; 417; 424; 425; 429; 449; 457; 468; 474; 479; 480; 482; 485; 501; 524; 527; 529; 537; 562; 578; 580; 587; 589; 592; 595; 612; 615; 618; 621; 632; 638; 639; 649; 683; 702; 711; 733; 735; 736; 741; 748; 767; 771; 786; 788; 824; 834; 839; 866; 868; 877; 905; 924; 955; 969; 974; 976; 980; 982; 993; 1016; 1037; 1038; 1042; 1060; 1075; 1077; 1078; 1090; 1091; 1117; 1137; 1146, Table 3 materials 13; 21; 27; 32; 34; 37; 73; 81; 107; 115; 125; 126; 157; 163; 167; 169; 194; 198; 201; 205; 239; 242; 277; 282; 286; 287; 289; 319; 366; 370; 371; 372; 376; 378; 407; 417; 419; 429; 437; 439; 442; 443; 457; 474; 479; 480; 482; 485; 495; 496; 509; 512; 525; 529; 537; 549; 556; 576; 579; 583; 585; 588; 589; 592; 617; 619; 638; 640; 641; 652; 664; 665; 683; 740; 743; 760; 771; 779; 784; 810; 812; 820; 839; 845; 846; 847; 858; 875; 883; 888; 901; 902; 903; 904; 940; 981; 1001; 1002; 1017; 1018; 1019; 1039; 1040; 1051; 1054; 1071; 1075; 1081; 1088; 1091; 1115; 1118; 1119; 1122; 1133; 114, and mixtures thereof, in one aspect, said composition comprises a material selected from Table 1 materials 4; 21; 32; 33; 34; 35; 42; 49; 145; 167; 168; 190; 208; 210; 259; 281; 424; 429; 449; 468; 474; 524; 527; 578; 580; 587; 589; 612; 615; 618; 621; 632; 639; 649; 683; 702; 711; 748; 767; 786; 834; 839; 866; 868; 877; 905; 955; 969; 974; 982; 993; 1016; 1037; 1060; 1077; 1078; 1137, Table 3 materials 21; 27; 32; 34; 73; 81; 125; 126; 157; 163; 167; 169; 194; 198; 201; 205; 239; 282; 287; 319; 366; 376; 419; 429; 437; 439; 443; 474; 495; 496; 509; 512; 525; 549; 556; 576; 579; 583; 585; 588; 589; 617; 619; 640; 652; 664; 665; 683; 740; 760; 779; 784; 810; 812; 820; 839; 845; 846; 847; 858; 875; 883; 888; 901; 902; 903; 904; 940; 981; 1001; 1017; 1018; 1019; 1039; 1040; 1051; 1054; 1071; 1081; 1115; 1122 and mixtures thereof.

In one aspect, said composition comprising a malodor reduction material, in one aspect, comprises a malodor reduction material having a Universal MORV.

Preferably, said composition comprising a malodor reduction material having a Universal MORV comprises a malodor reduction material selected from the group consisting of Table 4 materials 7; 229; 281; 441; 603; 621; 627; 632; 696; 708; 714; 750; 1060; 1137; 1144; 1145, and Table 6 material 627 and mixtures thereof. In one aspect, such materials are selected from Table 4 material 627 and mixtures thereof are disclosed.

In one aspect, said composition comprising a malodor reduction material having a Universal MORV. In one aspect, said composition comprises, a malodor reduction material

selected from the group consisting of Table 4 materials 7; 229; 281; 441; 603; 621; 632; 696; 708; 714; 750; 1060; 1137; 1144; 1145, and mixtures thereof are disclosed.

In one aspect, said composition comprising a malodor reduction material having a Universal MORV comprises, a malodor reduction material selected from the group consisting of Table 4 materials 7; 14; 39; 48; 183; 206; 212; 215; 229; 260; 261; 329; 335; 360; 441; 484; 487; 488; 501; 566; 567; 569; 570; 573; 574; 603; 616; 621; 624; 632; 663; 680; 684; 694; 696; 708; 712; 714; 726; 750; 775; 776; 788; 804; 872; 919; 927; 933; 978; 1007; 1022; 1024; 1029; 1035; 1038; 1060; 1089; 1107; 1129; 1131; 1136; 1137; 1140; 1142; 1143; 1144; 1145, Table 5 matierals 248, and Table 6 material 472 and mixtures thereof.

In one aspect, said composition comprising a malodor reduction material having a Universal MORV comprises, a malodor reduction material selected from the group consisting of Table 4 materials 199; 206; 281; 353; 501; 621; 632; 788; 1038; 1060; 1137 and mixtures thereof. In one aspect, such materials are selected from Table 4 281; 621; 632; 1060; 1137 and mixtures thereof.

A composition according to any preceding embodiment wherein said malodor reduction material is not a material selected from the group consisting of 302; 288; 50; 157; 1017; 888; 64; 1054; 832; 375; 390; 745; 504; 505; 140; 1012; 498; 362; 103; 356; 1074; 908; 1127; 475; 918; 687; 611; 317; 9; 141; 550; 602; 913; 1005; 521; 10; 215; 370; 335; 378; 1121; 360; 565; 1136; 1129; 655; 369; 1065; 914; 757; 601; 478; 889; 891; 358; 973; 162; 554; 522; 312; 125; 26; 418; 92; 586; 1026; 218; 31; 828; 871; 829; 1066; 287; 269; 769; 701; 1118; 70; 946; 142; 109; 108 and mixtures thereof.

A composition according to any preceding embodiment, said malodor reduction composition being a consumer product, said consumer comprising a total of, based on total consumer product weight, from about 0.0001% to about 100% of one or more of said malodor reduction materials and an adjunct material is disclosed.

In one aspect, said malodor reduction composition that is a consumer product is a laundry detergent that comprises a total of, based on total consumer product weight, from about 0.0001% to about 10%, in one aspect, from about 0.001% to about 5%, in one aspect, from about 0.1% to about 3%, in one aspect, from about 0.3% to about 2% of one or more of said malodor reduction materials and, a material selected from the group consisting of surfactants, builders, chelating agents, dye transfer inhibiting agents, dispersants, enzymes, and enzyme stabilizers, catalytic materials, bleach activators, a fabric softener active, hydrogen peroxide, sources of hydrogen

peroxide, preformed peracids, polymeric dispersing agents, clay soil removal/anti-redeposition agents, brighteners, suds suppressors, dyes, hueing dyes, perfumes, perfume delivery systems, structure elasticizing agents, carriers, structurants, hydrotropes, processing aids, solvents, pigments and mixtures thereof, in none aspect, said laundry detergent comprises an adjunct material selected from the group consisting of an organic acid, in one aspect, citric acid and/ or lactic acid, hydrogenated castor oil, ethoxylated polyethleneimines, in one aspect, PEI 600 EO 20 and/or PEI 600, an enzyme,in one aspect, a cold water amylase , cold water protease and/ or xylogluconase.

In one aspect, said malodor reduction composition that is a consumer product is air care composition that comprises a total of, based on total consumer product weight, from about 0.001% to about 100%, in none apect, from 0.01 to 10%, of one or more of said malodor reduction materials and, optionally, one or more materials selected from the group consisting of surfactants, antimicrobial agents, wetting agents, buffering agents, cyclodextrins, propellants, and solvents.

In one aspect, said malodor reduction composition that is a consumer product is a liquid fabric enhancer that comprises a total of, based on total composition weight, from about 0.05% to about 10% of one or more of said malodor reduction materials and, a fabric softener active selected from the group consisting of a quaternary ammonium compound, a silicone polymer, a polysaccharide, a clay, an amine, a fatty ester, a dispersible polyolefin, a polymer latex and mixtures thereof, in one aspect, said quaternary ammonium compound is selected from the group consisting of bis-(2-hydroxypropyl)-dimethylammonium methylsulphate fatty acid ester, 1,2-di(acyloxy)-3-trimethylammoniopropane chloride., N, N-bis(stearoyl-oxy-ethyl) N,N-dimethyl ammonium chloride, N,N-bis(tallowoyl-oxy-ethyl) N,N-dimethyl ammonium chloride, N,N-bis(stearoyl-oxy-ethyl) N-(2 hydroxyethyl) N-methyl ammonium methylsulfate., 1, 2 di (stearoyl-oxy) 3 trimethyl ammoniumpropane chloride, dicanoladimethylammonium chloride, di(hard)tallowdimethylammonium chloride dicanoladimethylammonium methylsulfate, 1-methyl-1-stearoylamidoethyl-2-stearoylimidazolinium methylsulfate, 1-tallowylamidoethyl-2-tallowylimidazoline, Dipalmethyl Hydroxyethylammoinum Methosulfate and mixtures thereof, in one aspect, said fabric softening active has an Iodine Value of between 0-140, in one aspect, 5-100, in one aspect,10-80, in one aspect, 15-70, in one aspect 18-25.

In one aspect, said malodor reduction composition that is a consumer product is a fabric enhancer solid particle or bead composition comprising from 0.05% to about 10% of one or more of said malodor reduction materials and at least about 25% PEG 8000.

In one aspect, said malodor reduction composition that is a consumer product is a soluble unit-dose composition contained within a PVA film.

In one aspect, said malodor reduction composition that is a consumer product is a fabric softener dryer added sheet composition, said fabric softener dryer added sheet composition comprising from 0.05% to about 10% of one or more of said malodor reduction materials and impregnated onto a non-woven sheet.

In one aspect, said malodor reduction composition that is a consumer product is a spray-dried laundry detergent powder, said composition comprising from about 0.05% to about 20% of one or more of said malodor reduction materials and at least 10% solids chosen from the following list or combinations thereof: sodium carbonate, sodium sulfate, carboxy methyl cellulose powder, a polymer comprising an acrylate monomer.

In one aspect, said malodor reduction composition that is a consumer product is a plastic film said plastic film comprising LLDPE, LDPE, HDPE, and/or compostable film, in one aspect, said plastic film comprises about 0.5 mg to about 100 mg of said malodor reduction composition per 20 grams of said plastic film, in one aspect, said malodor reduction composition is present in the amount of about 5 mg to about 30 mg per 20 grams of said plastic film, in one aspect, said malodor reduction composition is present in the amount of about 5 mg to about 15 mg per 20 grams of said plastic film.

In one aspect, said malodor reduction composition that is a consumer product is an absorbent article said absorbent article comprising a total of, based on total consumer product weight, from about 0.1% to about 75%, in one aspect, from about 1% to about 50%, in one aspect, from about 5% to about 40%, in one aspect, from about 12% to about 30% of one or more of said malodor reduction materials and, wherein the article comprises a topsheet, a backsheet, an absorbent core disposed between the topsheet and the backsheet, and an acquisition layer disposed between the topsheet and the absorbent core, wherein the malodor reduction composition is disposed on one of the backsheet, absorbent core, or acquisition layer, in one aspect, said absorbant article comprises a hot melt adhesive and the hot melt adhesive comprises the malodor reduction composition, in one aspect, the hot melt adhesive adheres the backsheet to the topsheet, in one aspect, the backsheet comprises a nonwoven layer and a film layer, and the hot melt adhesive adheres the backsheet nonwoven layer to the backsheet
film layer.

In one aspect, said malodor reduction composition that is a consumer product is a personal care deodorant composition, said deodorant composition comprising a total of, based on

total consumer product weight, from about 0.1% to about 7% of one or more of said malodor reduction materials and, optionally, from about 0.01% to about 75% of an antimicrobial, in one aspect, said antimicrobialsare selected from the group consisting of metals, zeolites, metal zeolites, quaternary ammonium (quat) compounds (e.g., cetyl pyridinium chloride, and benzylalkonium chloride), quat bound clays, metal bound clays, polyaspirin. salicylic acid, polyvinyl amines, coal tar, sulfur, whitfield's ointment, castellani's paint, aluminum chloride, gentian violet, octopirox (piroctone olamine), ciclopirox olamine, undecylenic acid and it's metal salts, potassium permanganate, selenium sulfide, sodium thiosulfate, glycols, diols, oil of bitter orange, urea preparations, griseofulvin, 8-Hydroxyquinoline ciloquinol, thiobendazole, thiocarbamates, haloprogin, polyenes, hydroxypyridone, morpholine, benzylamine, allylamines (such as terbinafine), tea tree oil, clove leaf oil, coriander, palmarosa, berberine, thyme red, cinnamon oil, , citronellic acid, hinokitol, ichthyol pale, Sensiva SC-50, Elestab HP-100, azelaic acid, lyticase, iodopropynyl butylcarbamate (IPBC), triclosan, triclocarban, isothiazalinones and azoles, and combinations thereof, more preferably, hexanediol, triclosan, octyl isothiazalinone metals selected from the group consisting of Zn, Cu, Al, Ti, Sn, Bi, and Ag, metal salts selected from the group consisting of zinc carbonate, copper sulfate, and zinc gluconate, metal pyrithione salts selected from the group consisting of ZPT and CuPT, glycols selected from the group consisting of propylene glycol, dipropylene glycol and hexylene glycol and mixtures thereof, in one aspect, said personal care deodorant composition comprises, based on total deodorant weight, from about 10% to about 75% glycol.

In one aspect, said malodor reduction composition that is a consumer product is a personal care body wash/shampoo composition, said body wash/shampoo comprising a total of, based on total consumer product weight, from about 0.1% to about 7% of one or more of said malodor reduction materials from about 3% to 30% of a surfactant, and, optionally, a miscellar phase and/or lamellar phase.

In one aspect, said malodor reduction composition that is a consumer product is a personal care antiperspirant composition, said antiperspirant composition comprising a total of, based on total consumer product weight, from about 0.1% to about 7% of one or more of said malodor reduction materials and, optionally, from about 1% to about 25% of an aluminum salt antiperspirant active.

In one aspect, said malodor reduction composition that is a consumer product is an anhydrous antiperspirant composition, said anhydrous antiperspirant composition comprising a total of, based on total consumer product weight, from about 0.1% to about 7% of one or more of

said malodor reduction materials and from about 1% to about 25% oof an antiperspirant actives slected from the group consisiting of astringent metallic salts, in one aspect, inorganic and organic salts of aluminum, zirconium and zinc, as well as mixtures thereof, in one aspect, aluminum halides, aluminum chlorohydrate, aluminum hydroxyhalides, zirconyl oxyhalides, zirconyl hydroxyhalides, and mixtures thereof.

In one aspect, said malodor reduction composition that is a consumer product is a dish cleaning composition, said dish cleaning composition comprising a total of, based on total consumer product weight, from about 0.1% to about 7% of one or more of said malodor reduction materials.

In one aspect, a method of controlling malodors comprising: contacting the material comprising a malodor with a composition selected from the group consisting of any of the compositions comprising a malodor reduction material disclosed herein and mixtures thereof, in one aspect, said contacting step comprises contacting said material containing a malodor with about 1 mg to about 50 mg, from about 3 mg to 30 mg, or from about 5 mg to about 20 mg of said composition per 20 grams of said material containing a malodor is disclosed.

In one aspect, a method of determining the material's ability to decrease or even eliminate the perception of one or more malodors comprising determining the MORV and/or Universal MORV of said material, in one aspect, determining said MORV and/or Universal MORV by the MORV and Universal MORV method provided in Test Method 1, is disclosed.

Process of Making Encapsulates

Methods of making suitable encapsulated malodor reduction compositions, for example condensation processes, as well as suitable shell materials for such encapsulated malodor reduction compositions are described in US Patent No. 6,869,923 B1 and US Published Patent Applications Nos. 2005/0276831 A1 and 2007/020263 A1. Such shell materials include acrylates, acrylics, aminoplast materials such as melamine formaldehyde material and combinations thereof. 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 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, U.S.A.), Arde Barinco (New Jersey, U.S.A.).

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 aspects of the invention, for example to assist or enhance cleaning 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. 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 fabric treatment 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, hydrogen peroxide, sources of hydrogen peroxide, preformed peracids, polymeric dispersing agents, clay soil removal/anti-redeposition agents, brighteners, suds suppressors, dyes, hueing dyes, perfumes, perfume delivery systems, structure elasticizing agents, carriers, structurants, hydrotropes, processing aids, solvents, pigments and/or fabric softener actives.

As stated, the adjunct ingredients are not essential to Applicants' compositions. Thus, certain aspects of Applicants' compositions do not contain one or more of the following adjuncts materials: surfactants, builders, chelating agents, dye transfer inhibiting agents, dispersants, enzymes, and enzyme stabilizers, catalytic materials, bleach activators, hydrogen peroxide, sources of hydrogen peroxide, preformed peracids, polymeric dispersing agents, clay soil removal/anti-redeposition agents, brighteners, suds suppressors, dyes, hueing dyes, perfumes, perfume delivery systems structure elasticizing agents, carriers, hydrotropes, processing aids, solvents, pigments and/or fabric softener actives. However, when one or more adjuncts are present, such one or more adjuncts may be present as detailed below.

Hueing Dye - The liquid laundry detergent composition may comprise a hueing dye. The hueing dyes employed in the present laundry care compositions may comprise polymeric or non-polymeric dyes, organic or inorganic pigments, or mixtures thereof. In one aspect, the hueing dye comprises a polymeric dye, comprising a chromophore constituent and a polymeric constituent. The chromophore constituent is characterized in that it absorbs light in the wavelength range of blue, red, violet, purple, or combinations thereof upon exposure to light. In

one aspect, the chromophore constituent exhibits an absorbance spectrum maximum from about 520 nanometers to about 640 nanometers in water and/or methanol, and in another aspect, from about 560 nanometers to about 610 nanometers in water and/or methanol.

Although any suitable chromophore may be used, the dye chromophore is, in one aspect, selected from benzodifuranes, methine, triphenylmethanes, napthalimides, pyrazole, napthoquinone, anthraquinone, azo, oxazine, azine, xanthene, triphenodioxazine and phthalocyanine dye chromophores. Mono and di-azo dye chromophores are may be preferred.

The hueing dye may comprise a dye polymer comprising a chromophore covalently bound to one or more of at least three consecutive repeat units. It should be understood that the repeat units themselves do not need to comprise a chromophore. The dye polymer may comprise at least 5, or at least 10, or even at least 20 consecutive repeat units.

The repeat unit can be derived from an organic ester such as phenyl dicarboxylate in combination with an oxyalkyleneoxy and a polyoxyalkyleneoxy. Repeat units can be derived from alkenes, epoxides, aziridine, carbohydrate including the units that comprise modified celluloses such as hydroxyalkylcellulose; hydroxypropyl cellulose; hydroxypropyl methylcellulose; hydroxybutyl cellulose; and, hydroxybutyl methylcellulose or mixtures thereof. The repeat units may be derived from alkenes, or epoxides or mixtures thereof. The repeat units may be C_2-C_4 alkyleneoxy groups, sometimes called alkoxy groups, in one aspect, derived from C_2-C_4 alkylene oxide. The repeat units may be C_2-C_4 alkoxy groups, in one aspect, ethoxy groups.

For the purposes of the present invention, the at least three consecutive repeat units form a polymeric constituent. The polymeric constituent may be covalently bound to the chromophore group, directly or indirectly via a linking group. Examples of suitable polymeric constituents include polyoxyalkylene chains having multiple repeating units. In one aspect, the polymeric constituents include polyoxyalkylene chains having from 2 to about 30 repeating units, from 2 to about 20 repeating units, from 2 to about 10 repeating units or even from about 3 or 4 to about 6 repeating units. Non-limiting examples of polyoxyalkylene chains include ethylene oxide, propylene oxide, glycidol oxide, butylene oxide and mixtures thereof.

Surfactants - The compositions according to the present invention may comprise a surfactant or surfactant system wherein the surfactant can be selected from nonionic surfactants, anionic surfactants, cationic surfactants, ampholytic surfactants, zwitterionic surfactants, semi-polar nonionic surfactants and mixtures thereof.

The surfactant is typically present at a level of from about 0.1% to about 60%, from about 1% to about 50% or even from about 5% to about 40% by weight of the subject composition.

Chelating Agents - The compositions herein may contain a chelating agent. Suitable chelating agents include copper, iron and/or manganese chelating agents and mixtures thereof. When a chelating agent is used, the composition may comprise from about 0.1% to about 15% or even from about 3.0% to about 10% chelating agent by weight of the subject composition.

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, polyvinyloxazolidones and polyvinylimidazoles or mixtures thereof.

When present in a subject composition, the dye transfer inhibiting agents may be present at levels from about 0.0001% to about 10%, from about 0.01% to about 5% or even from about 0.1% to about 3% by weight of the composition.

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

Perfumes – The dispersed phase may comprise a perfume that may include materials selected from the group consisting of perfumes such as 3-(4-*t*-butylphenyl)-2-methyl propanal, 3-(4-*t*-butylphenyl)-propanal, 3-(4-isopropylphenyl)-2-methylpropanal, 3-(3,4-methylenedioxyphenyl)-2-methylpropanal, and 2,6-dimethyl-5-heptenal, α-damascone, β-damascone, δ-damascone, β-damascenone, 6,7-dihydro-1,1,2,3,3-pentamethyl-4(5H)-indanone, methyl-7,3-dihydro-2H-1,5-benzodioxepine-3-one, 2-[2-(4-methyl-3-cyclohexenyl-1-yl)propyl]cyclopentan-2-one, 2-sec-butylcyclohexanone, and β-dihydro ionone, linalool, ethyllinalool, tetrahydrolinalool, and dihydromyrcenol.

Perfume Delivery Technologies - The compositions of the present invention may comprise one or more perfume delivery technologies that stabilize and enhance the deposition and release of perfume ingredients from treated substrate. Such perfume delivery technologies can also be used to increase the longevity of perfume release from the treated substrate. Perfume delivery technologies, methods of making certain perfume delivery technologies and the uses of such perfume delivery technologies are disclosed in US 2007/0275866 A1.

In one aspect, the compositions of the present invention may comprise from about 0.001% to about 20%, or from about 0.01% to about 10%, or from about 0.05% to about 5%, or even from about 0.1% to about 0.5% by weight of the perfume delivery technology. In one aspect, said perfume delivery technologies may be selected from the group consisting of: perfume microcapsules, pro-perfumes, polymer particles, functionalized silicones, polymer assisted delivery, molecule assisted delivery, fiber assisted delivery, amine assisted delivery, cyclodextrins, starch encapsulated accord, zeolite and inorganic carrier, and mixtures thereof:

In one aspect, said perfume delivery technology may comprise microcapsules formed by at least partially surrounding a benefit agent with a wall material. Said benefit agent may include materials selected from the group consisting of perfumes such as 3-(4-*t*-butylphenyl)-2-methyl propanal, 3-(4-*t*-butylphenyl)-propanal, 3-(4-isopropylphenyl)-2-methylpropanal, 3-(3,4-methylenedioxyphenyl)-2-methylpropanal, and 2,6-dimethyl-5-heptenal, α-damascone, β-damascone, δ-damascone, β-damascenone, 6,7-dihydro-1,1,2,3,3-pentamethyl-4(5H)-indanone, methyl-7,3-dihydro-2H-1,5-benzodioxepine-3-one, 2-[2-(4-methyl-3-cyclohexenyl-1-yl)propyl]cyclopentan-2-one, 2-sec-butylcyclohexanone, and β-dihydro ionone, linalool, ethyllinalool, tetrahydrolinalool, and dihydromyrcenol. Suitable perfume materials can be obtained from Givaudan Corp. of Mount Olive, New Jersey, USA, International Flavors & Fragrances Corp. of South Brunswick, New Jersey, USA, or Quest Corp. of Naarden, Netherlands. In one aspect, the microcapsule wall material may comprise: melamine, polyacrylamide, silicones, silica, polystyrene, polyurea, polyurethanes, polyacrylate based materials, gelatin, styrene malic anhydride, polyamides, and mixtures thereof. In one aspect, said melamine wall material may comprise melamine crosslinked with formaldehyde, melamine-dimethoxyethanol crosslinked with formaldehyde, and mixtures thereof. In one aspect, said polystyrene wall material may comprise polyestyrene cross-linked with divinylbenzene. In one aspect, said polyurea wall material may comprise urea crosslinked with formaldehyde, urea crosslinked with gluteraldehyde, and mixtures thereof. In one aspect, said polyacrylate based materials may comprise polyacrylate formed from methylmethacrylate/dimethylaminomethyl methacrylate, polyacrylate formed from amine acrylate and/or methacrylate and strong acid, polyacrylate formed from carboxylic acid acrylate and/or methacrylate monomer and strong base, polyacrylate formed from an amine acrylate and/or methacrylate monomer and a carboxylic acid acrylate and/or carboxylic acid methacrylate monomer, and mixtures thereof. In one aspect, the perfume microcapsule may be coated with a deposition aid, a cationic polymer, a non-ionic polymer, an anionic polymer, or mixtures thereof. Suitable polymers may be selected from the

group consisting of: polyvinylformaldehyde, partially hydroxylated polyvinylformaldehyde, polyvinylamine, polyethyleneimine, ethoxylated polyethyleneimine, polyvinylalcohol, polyacrylates, and combinations thereof. In one aspect, the microcapsule may be a perfume microcapsule. In one aspect, one or more types of microcapsules, for example two microcapsules types having different benefit agents may be used.

In one aspect, said perfume delivery technology may comprise an amine reaction product (ARP) or a thio reaction product. One may also use "reactive" polymeric amines and or polymeric thiols in which the amine and/or thiol functionality is pre-reacted with one or more PRMs to form a reaction product. Typically the reactive amines are primary and/or secondary amines, and may be part of a polymer or a monomer (non-polymer). Such ARPs may also be mixed with additional PRMs to provide benefits of polymer-assisted delivery and/or amine-assisted delivery. Nonlimiting examples of polymeric amines include polymers based on polyalkylimines, such as polyethyleneimine (PEI), or polyvinylamine (PVAm). Nonlimiting examples of monomeric (non-polymeric) amines include hydroxyl amines, such as 2-aminoethanol and its alkyl substituted derivatives, and aromatic amines such as anthranilates. The ARPs may be premixed with perfume or added separately in leave-on or rinse-off applications. In another aspect, a material that contains a heteroatom other than nitrogen and/or sulfur, for example oxygen, phosphorus or selenium, may be used as an alternative to amine compounds. In yet another aspect, the aforementioned alternative compounds can be used in combination with amine compounds. In yet another aspect, a single molecule may comprise an amine moiety and one or more of the alternative heteroatom moieties, for example, thiols, phosphines and selenols. The benefit may include improved delivery of perfume as well as controlled perfume release. Suitable ARPs as well as methods of making same can be found in USPA 2005/0003980 A1 and USP 6,413,920 B1.

Fabric Softening Actives

The compositions of the present invention may comprise a fabric softening active ("FSA"). Suitable fabric softening actives, include, but are not limited to, materials selected from the group consisting of quaternary ammonium compounds (quat), amines, fatty esters, sucrose esters, silicones, dispersible polyolefins, clays, polysaccharides, fatty acids, softening oils, polymer latexes and mixtures thereof.

Non-limiting examples of water insoluble fabric care benefit agents include dispersible polyethylene and polymer latexes.

Quat - Suitable quats include but are not limited to, materials selected from the group consisting of ester quats, amide quats, imidazoline quats, alkyl quats, amdioester quats and mixtures thereof. Suitable ester quats include but are not limited to, materials selected from the group consisting of monoester quats, diester quats, triester quats and mixtures thereof. In one aspect, a suitable ester quat is bis-(2-hydroxypropyl)-dimethylammonium methylsulphate fatty acid ester having a molar ratio of fatty acid moieties to amine moieties of from 1.85 to 1.99, an average chain length of the fatty acid moieties of from 16 to 18 carbon atoms and an iodine value of the fatty acid moieties, calculated for the free fatty acid, of from 0.5 to 60 or 15 to 50. In one aspect, the cis-trans-ratio of double bonds of unsaturated fatty acid moieties of the bis (2 hydroxypropyl)-dimethylammonium methylsulphate fatty acid ester is from 55:45 to 75:25, respectively. Suitable amide quats include but are not limited to, materials selected from the group consisting of monoamide quats, diamide quats and mixtures thereof. Suitable alkyl quats include but are not limited to, materials selected from the group consisting of mono alkyl quats, dialkyl quats quats, trialkyl quats, tetraalkyl quats and mixtures thereof.

In one embodiment, the fabric softening active is a quaternary ammonium compound suitable for softening fabric in a rinse step. In one embodiment, the fabric softening active is formed from a reaction product of a fatty acid and an aminoalcohol obtaining mixtures of mono-, di-, and, in one embodiment, tri-ester compounds. In another embodiment, the fabric softening active comprises one or more softener quaternary ammonium compounds such, but not limited to, as a monoalkyquaternary ammonium compound, dialkylquaternary ammonium compound, a diamido quaternary compound, a diester quaternary ammonium compound, or a combination thereof.

In one aspect, the fabric softening active comprises a diester quaternary ammonium or protonated diester ammonium (hereinafter "DQA") compound composition. In certain embodiments of the present invention, the DQA compound compositions also encompass diamido fabric softening actives s and fabric softening actives with mixed amido and ester linkages as well as the aforementioned diester linkages, all herein referred to as DQA.

In one embodiment, the fabric softening agent is chosen from at least one of the following: ditallowoyloxyethyl dimethyl ammonium chloride, dihydrogenated-tallowoyloxyethyl dimethyl ammonium chloride, ditallow dimethyl ammonium chloride, dihydrogenatedtallow dimethyl ammonium chloride, ditallowoyloxyethyl methylhydroxyethylammonium methyl

sulfate, dihydrogenated-tallowoyloxyethyl methyl hydroxyethylammonium chloride, or combinations thereof.

It will be understood that combinations of softener actives disclosed above are suitable for use in this invention.

Anion A

In the cationic nitrogenous salts herein, the anion A^-, which comprises any softener compatible anion, provides electrical neutrality. Most often, the anion used to provide electrical neutrality in these salts is from a strong acid, especially a halide, such as chloride, bromide, or iodide. However, other anions can be used, such as methylsulfate, ethylsulfate, acetate, formate, sulfate, carbonate, fatty acid anions and the like. In one aspect, the anion A may comprise chloride or methylsulfate. The anion, in some aspects, may carry a double charge. In this aspect, A^- represents half a group.

Silicone

In one embodiment, the compositions of the present invention may comprise a silicone. Suitable levels of silicone may comprise from about 0.1% to about 70%, alternatively from about 0.3% to about 40%, alternatively from about 0.5% to about 30%, alternatively from about 1% to about 20% by weight of the composition. Useful silicones can be any silicone comprising compound. In one embodiment, the silicone polymer is selected from the group consisting of cyclic silicones, polydimethylsiloxanes, aminosilicones, cationic silicones, silicone polyethers, silicone resins, silicone urethanes, and mixtures thereof. In one embodiment, the silicone is a polydialkylsilicone, alternatively a polydimethyl silicone (polydimethyl siloxane or "PDMS"), or a derivative thereof. In another embodiment, the silicone is chosen from an aminofunctional silicone, amino-polyether silicone, alkyloxylated silicone, cationic silicone, ethoxylated silicone, propoxylated silicone, ethoxylated/propoxylated silicone, quaternary silicone, or combinations thereof.

In another embodiment, the silicone may be chosen from a random or blocky organosilicone polymer having the following formula:

$$[R_1R_2R_3SiO_{1/2}]_{(j+2)}[(R_4Si(X\text{-}Z)O_{2/2}]_k[R_4R_4SiO_{2/2}]_m[R_4SiO_{3/2}]_j$$

wherein:

j is an integer from 0 to about 98; in one aspect j is an integer from 0 to about 48; in one aspect, j is 0;

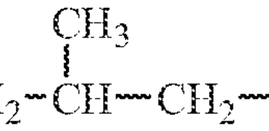
k is an integer from 0 to about 200, in one aspect k is an integer from 0 to about 50; when k = 0, at least one of R_1, R_2 or R_3 is –X—Z;

m is an integer from 4 to about 5,000; in one aspect m is an integer from about 10 to about 4,000; in another aspect m is an integer from about 50 to about 2,000;

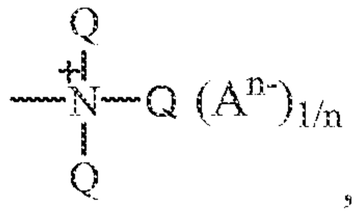
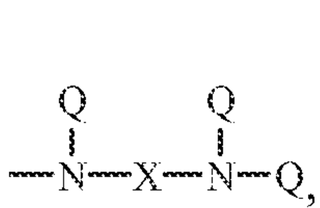
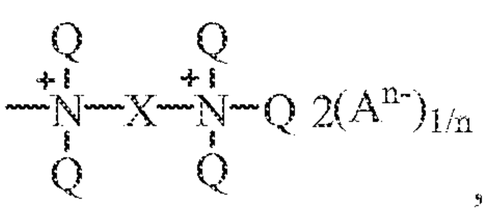
R_1, R_2 and R_3 are each independently selected from the group consisting of H, OH, C_1-C_{32} alkyl, C_1-C_{32} substituted alkyl, C_5-C_{32} or C_6-C_{32} aryl, C_5-C_{32} or C_6-C_{32} substituted aryl, C_6-C_{32} alkylaryl, C_6-C_{32} substituted alkylaryl, C_1-C_{32} alkoxy, C_1-C_{32} substituted alkoxy and X-Z;

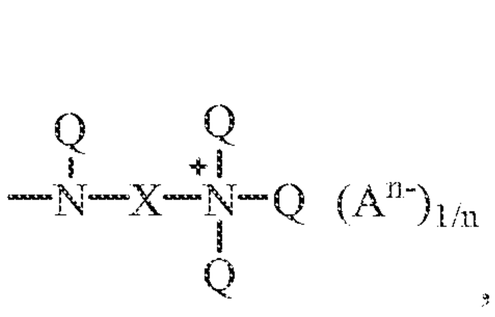
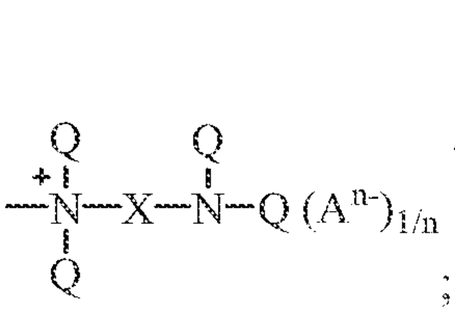
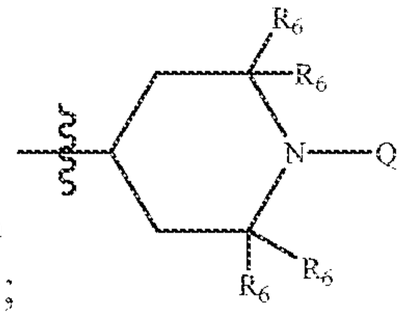
each R_4 is independently selected from the group consisting of H, OH, C_1-C_{32} alkyl, C_1-C_{32} substituted alkyl, C_5-C_{32} or C_6-C_{32} aryl, C_5-C_{32} or C_6-C_{32} substituted aryl, C_6-C_{32} alkylaryl, C_6-C_{32} substituted alkylaryl, C_1-C_{32} alkoxy and C_1-C_{32} substituted alkoxy;

each X in said alkyl siloxane polymer comprises a substituted or unsubsitituted divalent alkylene radical comprising 2-12 carbon atoms, in one aspect each divalent alkylene radical is independently selected from the group consisting of $-(CH_2)_s-$ wherein s is an integer from about 2 to about 8, from about 2 to about 4; in one aspect, each X in said alkyl siloxane polymer comprises a substituted divalent alkylene radical selected from the group consisting of: $-CH_2-CH(OH)-CH_2-$; $-CH_2-CH_2-CH(OH)-$

; and  ;

each Z is selected independently from the group consisting of ,

 ,  ,  ,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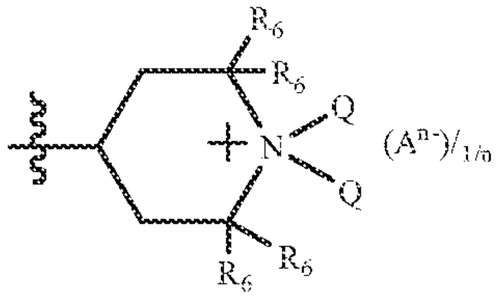
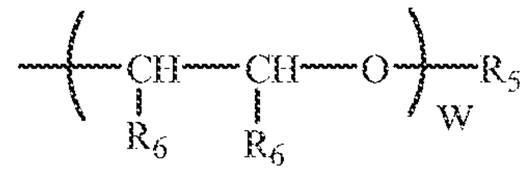
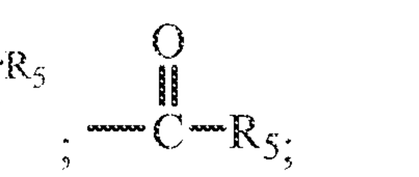
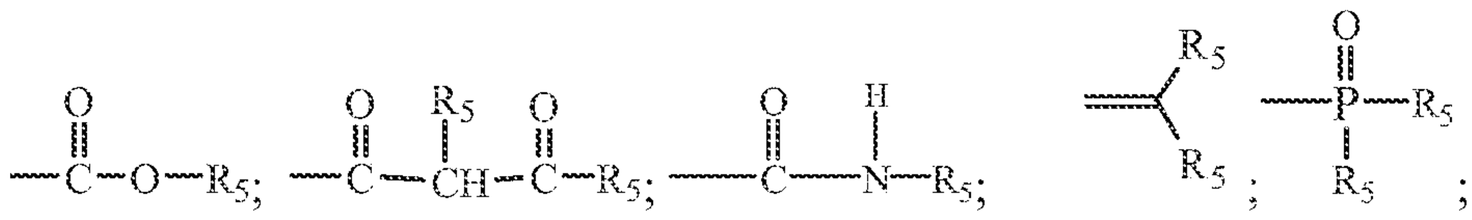
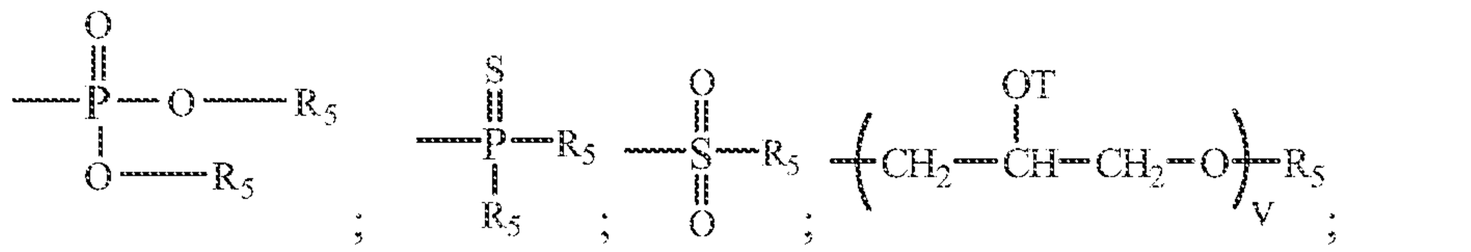
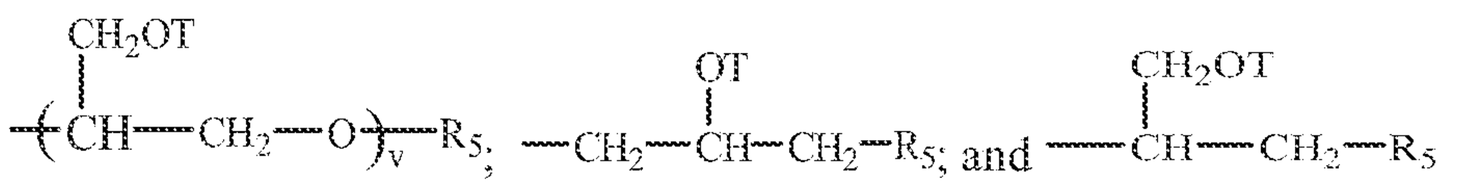
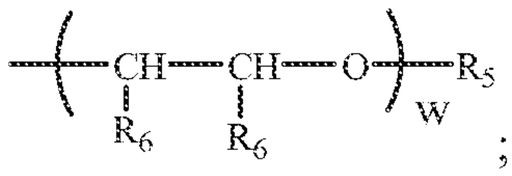
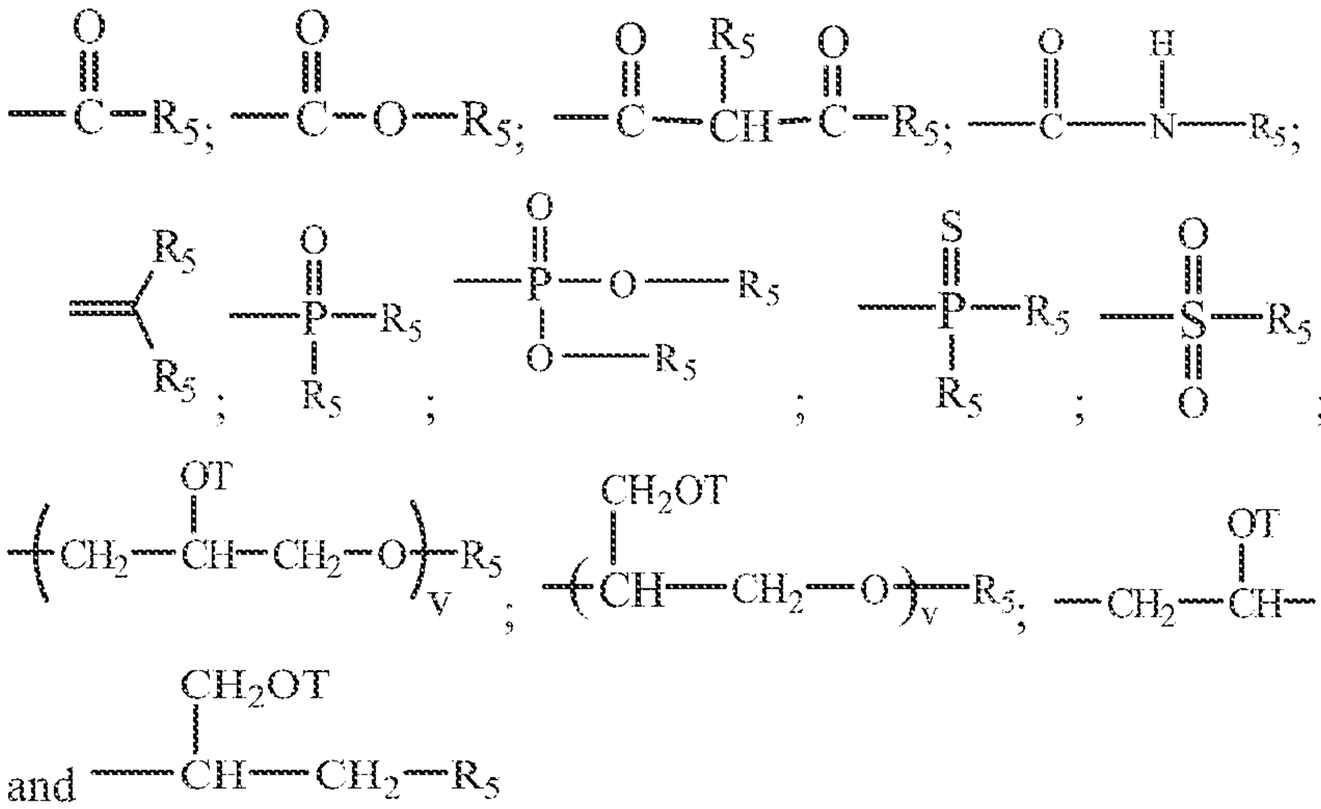


with the proviso that when Z is a quat, Q cannot be an amide, imine, or urea moiety and if Q is an amide, imine, or urea moiety, then any additional Q bonded to the same nitrogen as said amide, imine, or urea moiety must be H or a C_1-C_6 alkyl, in one aspect, said additional Q is H; for Z A^{n-} is a suitable charge balancing anion. In one aspect A^{n-} is selected from the group consisting of Cl^-, Br^-,I^-, methylsulfate, toluene sulfonate, carboxylate and phosphate ; and at least one Q in said organosilicone is independently selected from

$-CH_2-CH(OH)-CH_2-R_5$; 





each additional Q in said organosilicone is independently selected from the group comprising of H, C_1-C_{32} alkyl, C_1-C_{32} substituted alkyl, C_5-C_{32} or C_6-C_{32} aryl, C_5-C_{32} or C_6-C_{32} substituted aryl, C_6-C_{32} alkylaryl, C_6-C_{32}

substituted alkylaryl, $-CH_2-CH(OH)-CH_2-R_5$; 



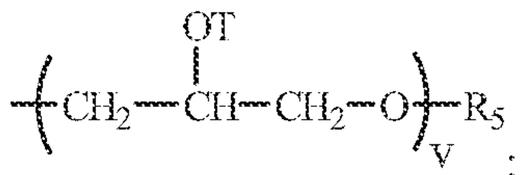
wherein each R_5 is independently selected from the group consisting of H, C_1-C_{32} alkyl, C_1-C_{32} substituted alkyl, C_5-C_{32} or C_6-C_{32} aryl, C_5-C_{32} or C_6-C_{32} substituted aryl, C_6-C_{32} alkylaryl, C_6-C_{32} substituted alkylaryl, $-(CHR_6-CHR_6-O-)_w-L$ and a siloxyl residue;

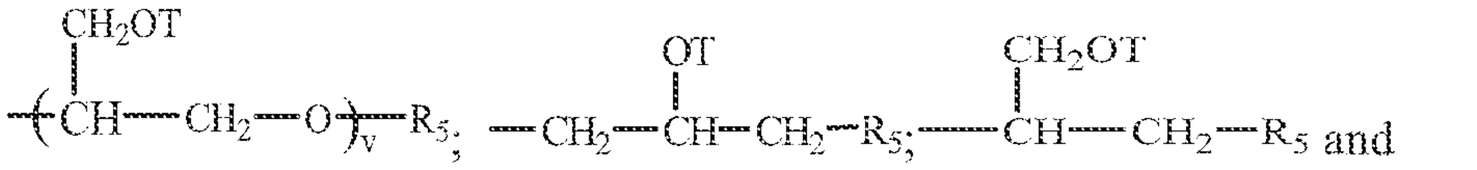
each R_6 is independently selected from H, C_1-C_{18} alkyl

each L is independently selected from $-C(O)-R_7$ or R_7;

w is an integer from 0 to about 500, in one aspect w is an integer from about 1 to about 200; in one aspect w is an integer from about 1 to about 50;

each R_7 is selected independently from the group consisting of H; C_1-C_{32} alkyl; C_1-C_{32} substituted alkyl, C_5-C_{32} or C_6-C_{32} aryl, C_5-C_{32} or C_6-C_{32} substituted aryl, C_6-C_{32} alkylaryl; C_6-C_{32} substituted alkylaryl and a siloxyl residue;

each T is independently selected from H, and  ;



wherein each v in said organosilicone is an integer from 1 to about 10, in one aspect, v is an integer from 1 to about 5 and the sum of all v indices in each Q in the said organosilicone is an integer from 1 to about 30 or from 1 to about 20 or even from 1 to about 10.

In another embodiment, the silicone may be chosen from a random or blocky organosilicone polymer having the following formula:

$$[R_1R_2R_3SiO_{1/2}]_{(j+2)}[(R_4Si(X\text{-}Z)O_{2/2}]_k[R_4R_4SiO_{2/2}]_m[R_4SiO_{3/2}]_j$$

wherein

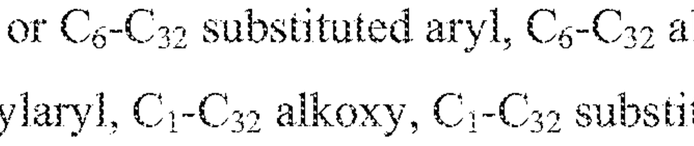
j is an integer from 0 to about 98; in one aspect j is an integer from 0 to about 48; in one aspect, j is 0;

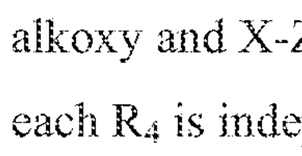
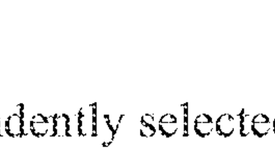
k is an integer from 0 to about 200; when k = 0, at least one of R_1, R_2 or R_3= -X-Z, in one aspect, k is an integer from 0 to about 50

m is an integer from 4 to about 5,000; in one aspect m is an integer from about 10 to about 4,000; in another aspect m is an integer from about 50 to about 2,000;

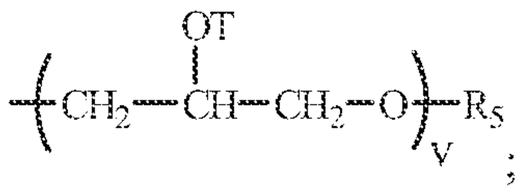
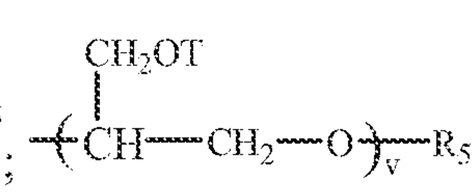
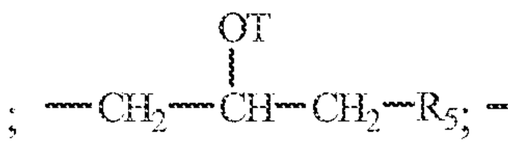
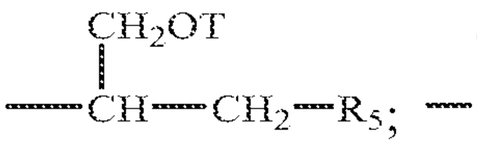
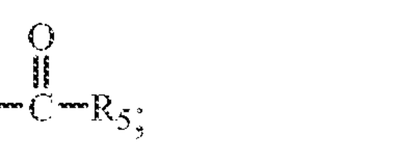
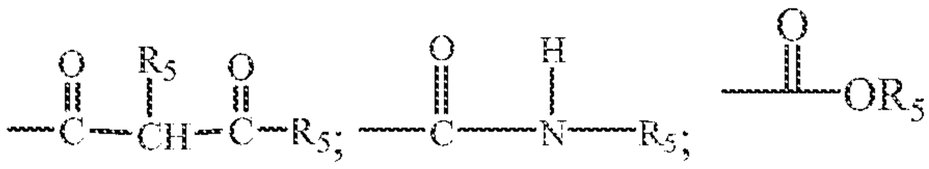
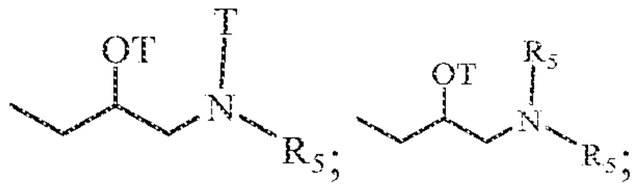
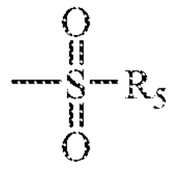
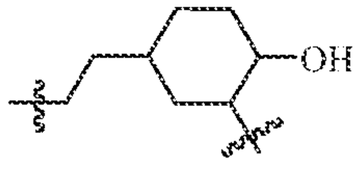
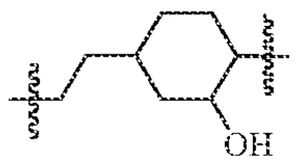
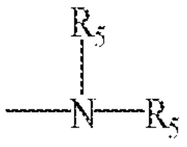
R_1, R_2 and R_3 are each independently selected from the group consisting of H, OH, C_1-C_{32} alkyl, C_1-C_{32} substituted alkyl, C_5-C_{32} or C_6-C_{32} aryl, C_5-C_{32} or C_6-C_{32} substituted aryl, C_6-C_{32} alkylaryl, C_6-C_{32} substituted alkylaryl, C_1-C_{32} alkoxy, C_1-C_{32} substituted alkoxy and X-Z;

each R_4 is independently selected from the group consisting of H, OH, C_1-C_{32} alkyl, C_1-C_{32} substituted alkyl, C_5-C_{32} or C_6-C_{32} aryl, C_5-C_{32} or C_6-C_{32} substituted aryl, C_6-C_{32} alkylaryl, C_6-C_{32} substituted alkylaryl, C_1-C_{32} alkoxy and C_1-C_{32} substituted alkoxy;

each X comprises of a substituted or unsubstituted divalent alkylene radical comprising 2-12 carbon atoms; in one aspect each X is independently selected from the group consisting of $-(CH_2)_s-$ O-; $-CH_2-CH(OH)-CH_2-O-$;  ;

 and 

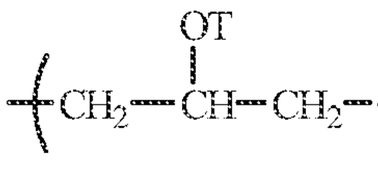
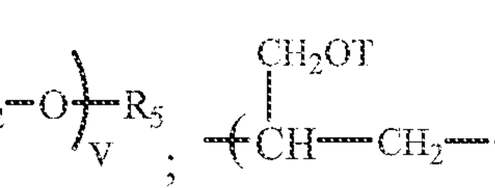
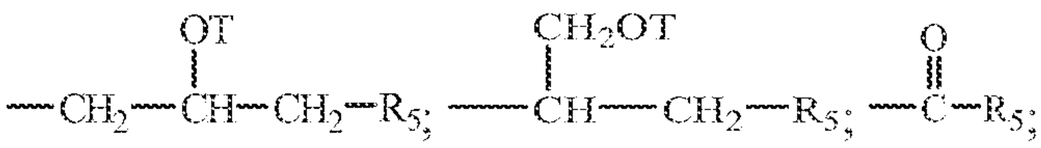
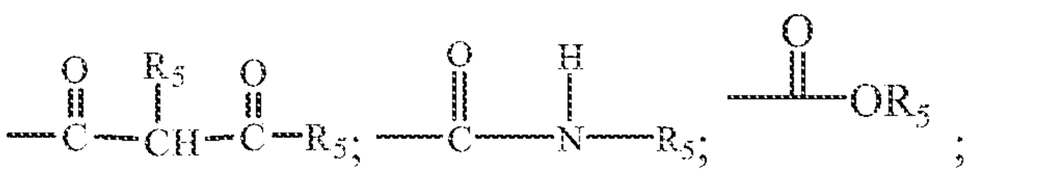
wherein each s independently is an integer from about 2 to about 8, in one aspect s is an integer from about 2 to about 4;

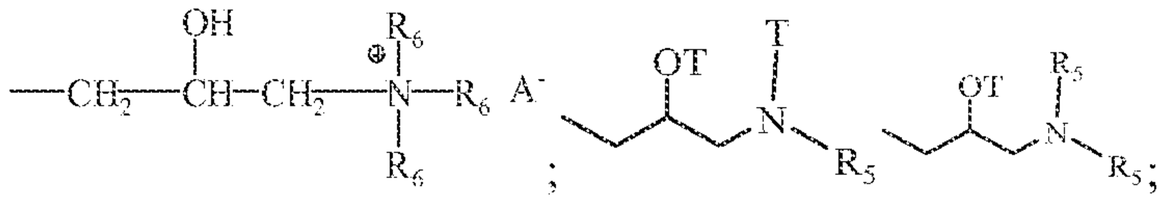
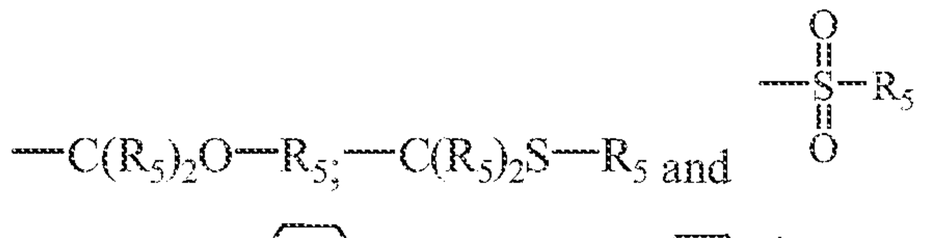
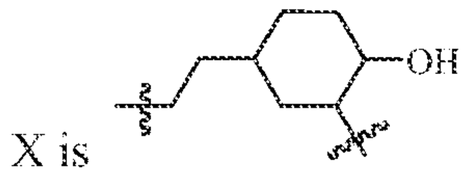
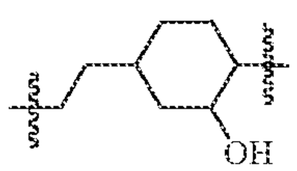
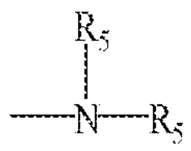
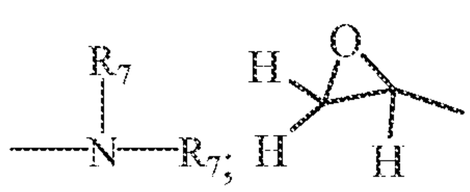
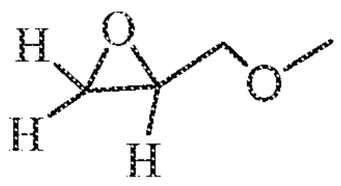
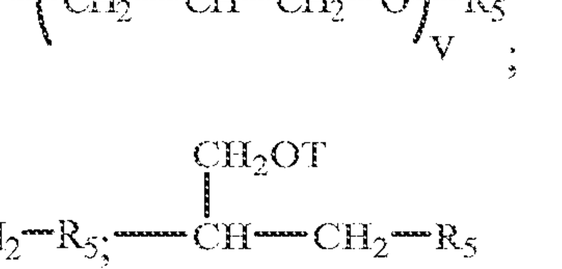
At least one Z in the said organosiloxane is selected from the group consisting of R_5;  ;  ;  ;  ;  ;  ;  ; ; $-C(R_5)_2O-R_5$; $-C(R_5)_2S-R_5$ and  provided that when X is  or  then Z = $-OR_5$ or 

wherein A^- is a suitable charge balancing anion. In one aspect A^- is selected from the group consisting of Cl^-, Br^-,

I^-, methylsulfate, toluene sulfonate, carboxylate and phosphate and

each additional Z in said organosilicone is independently selected from the group comprising of H, C_1-C_{32} alkyl, C_1-C_{32} substituted alkyl, C_5-C_{32} or C_6-C_{32} aryl, C_5-C_{32} or C_6-C_{32} substituted aryl, C_6-C_{32} alkylaryl, C_6-C_{32} substituted alkylaryl, R_5,

 ;  ;  ;  ;


each R_5 is independently selected from the group consisting of H; C_1-C_{32} alkyl; C_1-C_{32} substituted alkyl, C_5-C_{32} or C_6-C_{32} aryl, C_5-C_{32} or C_6-C_{32} substituted aryl or C_6-C_{32} alkylaryl, or C_6-C_{32} substituted alkylaryl,

$-(CHR_6-CHR_6-O-)_w-CHR_6-CHR_6-L$ and siloxyl residue wherein

each L is independently selected from $-O-C(O)-R_7$ or $-O-R_7$;

w is an integer from 0 to about 500, in one aspect w is an integer from 0 to about 200, one aspect w is an integer from 0 to about 50;

each R_6 is independently selected from H or C_1-C_{18} alkyl;

each R_7 is independently selected from the group consisting of H; C_1-C_{32} alkyl; C_1-C_{32} substituted alkyl, C_5-C_{32} or C_6-C_{32} aryl, C_5-C_{32} or C_6-C_{32} substituted aryl, C_6-C_{32} alkylaryl, and C_6-C_{32} substituted aryl, and a siloxyl residue;

each T is independently selected from H; ;

wherein each v in said organosilicone is an integer from 1 to about 10, in one aspect, v is an integer from 1 to about 5 and the sum of all v indices in each Z in the said organosilicone is an integer from 1 to

about 30 or from 1 to about 20 or even from 1 to about 10.

In one embodiment, the silicone is one comprising a relatively high molecular weight. A suitable way to describe the molecular weight of a silicone includes describing its viscosity. A high molecular weight silicone is one having a viscosity of from about 10 cSt to about 3,000,000 cSt, or from about100 cSt to about 1,000,000 cSt, or from about 1,000 cSt to about 600,000 cSt, or even from about 6,000 cSt to about 300,000 cSt,

In one embodiment, the silicone comprises a blocky cationic organopolysiloxane having the formula:

$$M_wD_xT_yQ_z$$

wherein:

M = $[SiR_1R_2R_3O_{1/2}]$, $[SiR_1R_2G_1O_{1/2}]$, $[SiR_1G_1G_2O_{1/2}]$, $[SiG_1G_2G_3O_{1/2}]$, or combinations thereof;

D = $[SiR_1R_2O_{2/2}]$, $[SiR_1G_1O_{2/2}]$, $[SiG_1G_2O_{2/2}]$ or combinations thereof;

T = $[SiR_1O_{3/2}]$, $[SiG_1O_{3/2}]$ or combinations thereof;

Q = $[SiO_{4/2}]$;

w = is an integer from 1 to (2+y+2z);

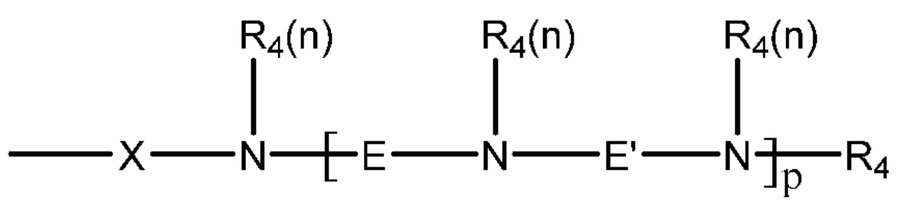
x = is an integer from 5 to 15,000;

y = is an integer from 0 to 98;

z = is an integer from 0 to 98;

R_1, R_2 and R_3 are each independently selected from the group consisting of H, OH, C_1-C_{32} alkyl, C_1-C_{32} substituted alkyl, C_5-C_{32} or C_6-C_{32} aryl, C_5-C_{32} or C_6-C_{32} substituted aryl, C_6-C_{32} alkylaryl, C_6-C_{32} substituted alkylaryl, C_1-C_{32} alkoxy, C_1-C_{32} substituted alkoxy, C_1-C_{32} alkylamino, and C_1-C_{32} substituted alkylamino;

at least one of M, D, or T incorporates at least one moiety G_1, G_2 or G_3; and G_1, G_2, and G_3 are each independently selected from the formula:



$k A^{-t}$

wherein:

X comprises a divalent radical selected from the group consisting of C_1-C_{32} alkylene, C_1-C_{32} substituted alkylene, C_5-C_{32} or C_6-C_{32} arylene, C_5-C_{32} or C_6-C_{32} substituted arylene, C_6-C_{32} arylalkylene, C_6-C_{32} substituted arylalkylene, C_1-C_{32} alkoxy, C_1-C_{32} substituted alkoxy, C_1-C_{32} alkyleneamino, C_1-C_{32} substituted alkyleneamino, ring-opened epoxide, and ring-opened glycidyl, with the proviso that if X does not comprise a repeating alkylene oxide moiety then X can further comprise a heteroatom selected from the group consisting of P, N and O;

each R_4 comprises identical or different monovalent radicals selected from the group consisting of H, C_1-C_{32} alkyl, C_1-C_{32} substituted alkyl, C_5-C_{32} or C_6-C_{32} aryl, C_5-C_{32} or C_6-C_{32} substituted aryl, C_6-C_{32} alkylaryl, and C_6-C_{32} substituted alkylaryl;

E comprises a divalent radical selected from the group consisting of C_1-C_{32} alkylene, C_1-C_{32} substituted alkylene, C_5-C_{32} or C_6-C_{32} arylene, C_5-C_{32} or C_6-C_{32} substituted arylene, C_6-C_{32} arylalkylene, C_6-C_{32} substituted arylalkylene, C_1-C_{32} alkoxy, C_1-C_{32} substituted alkoxy, C_1-C_{32} alkyleneamino, C_1-C_{32} substituted alkyleneamino, ring-opened epoxide and ring-opened glycidyl, with the proviso that if E does not comprise a repeating alkylene oxide moiety then E can further comprise a heteroatom selected from the group consisting of P, N, and O;

E' comprises a divalent radical selected from the group consisting of C_1-C_{32} alkylene, C_1-C_{32} substituted alkylene, C_5-C_{32} or C_6-C_{32} arylene, C_5-C_{32} or C_6-C_{32} substituted arylene, C_6-C_{32} arylalkylene, C_6-C_{32} substituted arylalkylene, C_1-C_{32} alkoxy, C_1-C_{32} substituted alkoxy, C_1-C_{32} alkyleneamino, C_1-C_{32} substituted alkyleneamino, ring-opened epoxide and ring-opened glycidyl, with the proviso that if E' does not comprise a repeating alkylene oxide moiety then E' can further comprise a heteroatom selected from the group consisting of P, N, and O;

p is an integer independently selected from 1 to 50;

n is an integer independently selected from 1 or 2;

when at least one of G_1, G_2, or G_3 is positively charged, A^{-t} is a suitable charge balancing anion or anions such that the total charge, k, of the charge-balancing anion or anions is equal to and opposite from the net charge on the moiety G_1, G_2 or G_3; wherein t is an integer independently

selected from 1, 2, or 3; and $k \leq (p*2/t) + 1$; such that the total number of cationic charges balances the total number of anionic charges in the organopolysiloxane molecule;
and wherein at least one E does not comprise an ethylene moiety.

TEST METHODS

Malodor reduction materials may be separated from mixtures, including but not limited to finished products such as consumer products and indentified, by analytical methods that include GC-MS and/or NMR.

MORV and Universal MORV calculation

1.) Search Chemical Abstracts using the name and/or the CAS Registry number for the material of interest and use the structure provided. If there are multiple isomers for a given material, use the structure provided by Chemical Abstracts or use the isomer that is most prevalent in the material. Input structure of material into winMolconn (Hall Associates, version 1.1.2.1).

2.) Input values from 1.) above into the following four equations:

a) MORV = –8.5096 + 2.8597×(dxp9) + 1.1253×(knotpv) – 0.34484×(e1C2O2) – 0.00046231×(idw) + 3.3509×(idcbar) + 0.11158×(n2pag22)

b) MORV = –5.2917 + 2.1741×(dxvp5) – 2.6595×(dxvp8) + 0.45297×(e1C2C2d) – 0.6202×(c1C2O2) + 1.3542×(CdCH2) + 0.68105×(CaasC) + 1.7129×(idcbar)

c) MORV = –0.0035 + 0.8028×(SHCsatu) + 2.1673×(xvp7) – 1.3507×(c1C1C3d) + 0.61496×(c1C1O2) + 0.00403×(idc) – 0.23286×(nd2).

d) MORV = –0.9926 – 0.03882×(SdO) + 0.1869×(Ssp3OH) + 2.1847×(xp7) + 0.34344×(e1C3O2) – 0.45767×(c1C2C3) + 0.7684×(CKetone)

Equation a) is for the malodor trans-3-methyl-2-hexenoic acid (carboxylic acid based malodors)

Equation b) is for the malodor trimethylamine (amine based malodors)

Equation c) is for the malodor 3-mercapto-3-methylhexan-1-ol (thiol based malodors)

Equation d) is for the malodor skatole (indole based malodors)

3.) For purpose of the present application, a material's MORV is the highest MORV value from equations 2.)a) through 2.)d).

4.) If all MORV values from equations 2.)a) through 2.)d) above are greater than 0.5, the subject material has a Universal MORV.

EXAMPLE 1: Malodor reduction composition

Ingredient	CAS #	MRC A Percent	MRC B Percent	MRC C Percent
5-Cyclohexadecen-1-One	37609-25-9	15.0	2.00	2.00
decahydro-2,2,7,7,8,9,9-heptamethylindeno(4,3a-b)furan	476332-65-7	0.005	0.01	0.01
2,3-Dihydro-5,6-dimethoxy-2-(4-piperidinylmethylene)-1H-inden-1-one	33704-61-9	0.3	0.5	0.5
Cedryl Methyl Ether	19870-74-7	6.0	10.0	4.0
Trans-4-Decenal	65405-70-1	0.005	0.002	0.002
Decyl Aldehyde	112-31-2	3.74	2.0	2.0
3- methyl cyclopentadecenone	63314-79-4	0.4	1.0	1.0
Diphenyl Oxide	101-84-8	0.5	1.0	1.0
3a,4,5,6,7,7a- hexahydro-4,7-methano-1H-indenyl acetate	54830-99-8	5.0	8.0	8.0
3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-1-yl propanoate	68912-13-0	6.0	8.0	8.0
2-(5-methyl-2-propan-2-yl-8-bicyclo[2.2.2]oct-5-enyl)-1,3-dioxolane	68901-32-6	10.0	15.0	15.0
(E)-3,7-dimethyl-2,6-octadienylhexadecanoate	3681-73-0	10.0	10.0	16.0
Iso Nonyl Acetate	58430-94-7	6.65	8.0	3.0
2,2,7,7-tetramethyltricyclo[6.2.1.01,6]undecan-5-one	23787-90-8	10.0	8.0	8.0
(1-Methyl-2-(1,2,2-trimethylbicyclo[3.1.0]-hex-3-ylmethyl)cyclopropyl)methanol	198404-98-7	0.1	0.3	0.3

Lauric Aldehyde	112-54-9	0.625	1.0	0.7
Methyl Iso Eugenol	93-16-3	18.000	10.0	13.0
Methyl hexadecanoate	112-39-0	3.000	10.0	12.0
2,3-dihydro-1,1-1H-dimethyl-indene-ar-propanal	300371-33-9	0.400	0.0	0.3
4-tert-butylcyclohexanol	98-52-2	0.400	0.1	0.1
2-isobutyl-4-hydroxy-4-methyltetrahydropyran	63500-71-0	1.600	2.0	2.0
Undecyl Aldehyde	112-44-7	1.725	2.888	1.888
Undecylenic Aldehyde	112-45-8	0.550	0.2	1.2
Total		100	100.0	100.0

The term "air refresher" or "air freshener", as used herein, refer to any suitable composition that reduces odors in air, and/or reduces the impression of odors in the air by masking, layering or including malodor counteractant perfume raw materials into the composition.

Example 2.1-2.3: Energized Air Refresher

An energized air refresher composition is prepared with malodor reduction composition, according to the compositions shown in Example 1.

	Example 2.1	Example 2.2	Example 2.3
Perfume composition	40-60	50-60	30-50
Malodor reducing composition	10-20	15-30	10-25
Functional Perfume Component	30-50	10-30	25-60

Use of Functional Perfume Components at the recited levels may help modulate the evaporation profile of an entire perfume composition to provide perfume character consistency over the intended usage period.

Suitable FPCs may be highly volatile, low boiling, perfume ingredients. Non-limiting, suitable FPCs include iso-nonyl acetate, dihydro myrcenol (3 -methylene-7-methyloctan-7-ol), linalool (3-hydroxy-3,7-dimethyl-1,6 octadiene), geraniol (3,7 dimethyl-2,6-octadien-1-ol), d-limonene,1 -methyl-4-isopropenyl-1-cyclohexene, benzyl acetate, isopropyl mystristate, and combinations thereof.

Functional Perfume Component Examples 2.1-2.3

	Example A1	Example A2	Example A3
Benzyl alcohol	10-50	0-50	0-20
Iso nonyl acetate	1-20	1-10	1-10
Dipropylene glycol methyl ether	40-70	5-65	2-50

An energized air freshening device is filled with the composition above. The resulting air freshener is effective at reducing malodor.

Examples 3.1-3.3 - Non-Energized Air Freshener

A non-energized air refresher composition is prepared with malodor reduction composition, according to the compositions shown in Example 1.

	Example 3.1	Example 3.2	Example 3.3
Perfume composition	20-30	20-50	10-30
Malodor reducing composition	10-20	10-20	20-50
Functional Perfume components	0-70	40-70	20-70

Functional Perfume components	Example 1	Example 2	Example 3
3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-1-yl propanoate	15-25	20-25	0-20
Iso nonyl acetate	30-75	15-75	1-10
2-isobutyl-4-hydroxy-4-methyltetrahydropyran	20-30	5-65	2-50

A non-energized air freshener is filled with the example composition above. The resulting air freshener is effective at reducing malodor.

Examples 4.1-4.2 - Fabric and Air RefresherComposition

A fabric refresher composition is prepared with malodor reduction composition, according to the compositions shown in Example 1.

Ingredient	**Example 4.1**	**Example 4.2**	**Example 4.3 (ranges)**
Deionized Water	Balance	Balance	Balance
Ethanol	3.0	3.0	1-5.0%
Lupasol HF+	0.0650	0.0650	0-0.1%
Diethylene Glycol	0.175	0.175	0-0.2%
Silwet L-7600	0.1	0.100	0-0.2
Maleic Acid and/or Citric Acid	0.05	0.05	0-0.2
Koralone B-119	0.015	0.015	0-0.1

Hydroxypropyl β-cyclodextrin	0.630	0.630	0-2.0%
Sodium Hydroxide	0.003	0.003	0.001-0.01
Fragrance	0	0.4%	0-1.0%
Malodor Reduction Composition (MRC A, B, or C)	0.03%	0.04%	0-0.1%
Total	100.000	100.000	100.000

Lupasol HF	Polyethyleneimine (available from BASF)
Silwet L-7600	Organosilicone (available from BASF)
Koralone B-119	19% active aqueous solution of 1,2 Benzisothiazolin-3-one (BIT) in dipropylene glycol and water (available from Dow Chemical)

The resulting Fabric fresher composition is effective at reducing or preventing malodor when sprayed on fabrics, such as articles of clothing or upholstery.

Example 5.1-5.2 - Aerosol Air Freshener Composition

An aerosol air freshener composition is prepared with malodor reduction composition, according to the compositions shown in Example 1.

Ingredient	Example 5.1	Example 5.2
Water Purified USP	Balance	92.370
Ethyl Alcohol	5.000	5.000
Acid Polyacrylic	0.185	-
Sodium Citrate,Dihydrate	-	0.100
Acid Citric Solution 50%	-	0.100
Sodium Dicoctyl Sulfosuccinate	0-0.200	-
Silwet L-7600	0 - 0.2	0.200
Hydrogenated Castor Oil PEG 60	1.400	1.400
Fragrance	0- 1.5%	0 – 1.5%
Malodor Reduction Composition (MRC A, B, or C)	1.0	0 – 1.50%
Hydroxypropyl BetaCyclodextrine	0.380	0.380
Koralone B-119	0.050	0.050
Sodium Hydroxide 20%	0 - 0.3	-
Total	100	100

Silwet L-7600	Organosilicone (available from BASF)

Koralone B-119	19% active aqueous solution of 1,2 Benzisothiazolin-3-one (BIT) in dipropylene glycol and water (available from Dow Chemical)

A resulting aerosol air freshener is effective at reducing malodor in the air when sprayed. In addition the aerosol can be sprayed on fabrics to reduce or prevent malodor.

Examples 6.1–6.4 - Heavy Duty Liquid Composition

A HDL-Heavy Duty Liquid composition is prepared with malodor reduction composition, according to the compositions shown in Example 1.

	Example 6.1	Example 6.2	Example 6.3	Example 6.4
Ingredient	**WT% Active**	**WT% Active**	**WT% Active**	**WT% Active**
$AE_{1.8}S$	16.3	16.3	12	8
$C_{11.8}$ linear alkyl benzene sulfonic acid	2.8	2.8	8	--
HSAS	13.6	13.6	0	22
C24 alcohol, EO9	2.2	2.2	1	1.8
Citric Acid	0.9	0.9	2	1.7
Lactic Acid	---	5.8	---	---
C_{12}-C_{18} Fatty Acid	2.3	1.3	0.8	3.0
Protease (55.3 mg/g)	1.7	1.7	1.7	1.7
Amylase (25.4mg/g)	0.7	0.7	0.7	0.7
Borax	3.6	3.6	3.6	3.6
Calcium Formate	0.2	0.2	0.2	0.2
Polyethyleneimine 600, EO20	1.6	1.6	---	1.6
Polyethyleneimine 600, EO24, PO16	1.6	----	2.0	1.6
DTPA	0.3	0.3	0.3	0.3
Tiron®	0.8	0.8	0.8	0.8
Optical Brightener [7]	0.3	0.3	0.3	0.3
NaOH	4.0	9.3	4.0	9.3
Na Cumene Sulfonate	1.1	1.1	1.1	1.1
Na Formate	0.2	0.2	0.2	0.2
Aesthetics Dye	0.03 – 1.0	0.03 – 1.0	0.03 – 1.0	0.03 – 1.0
Perfume	0.5 – 3.0	0.5 – 3.0	0.5 – 3.0	0.5 – 3.0
Malodor Reducing Composition	0.15-1.0	0.15-1.0	0.15-1.0	0.15-1.0
Water and Solvent	Balance	Balance	Balance	Balance
pH	5.0	8.0	5.0	8.0

HSAS	secondary alkyl sulfate, acid form
DTPA	diethylene triamine pentaacetic acid (DTPA)
Tiron	4,5-Dihydroxy-1,3-benzenedisulfonic acid disodium salt monohydrate

The resulting heavy duty liquid product when used to wash articles of clothing is effective at reducing malodor on the washed clothing.

Examples 7.1-7.3 - Heavy Duty Liquid Composition

Other examples of HDL-Heavy Duty Liquid composition prepared with malodor reduction composition, according to the compositions shown in Example 1.

	Example 7.1	Example 7.2	Example 7.33
Ingredient	**WT% Active**	**WT% Active**	**WT% Active**
$AE_{1.8}S$	14%	8%	11%
Amine Oxide	2%	---	---
$C_{11.8}$ linear alkyl benzene sulfonic acid	10%	---	---
HSAS	---	20%	15
HF LAS	---	---	---
C24 alcohol, EO9	1%	2%	1.2%
Citric Acid	3%	1.5%	0.9%
C_{12}-C_{18} Fatty Acid	2%	1%	1.5%
Protease (55.3 mg/g)	0.013	0.8	0.013
Amylase (25.4mg/g)	0.02	0.7	0.02
Borax	2 – 8.0	2 – 8.0	2 – 8.0
Calcium Formate	0.2	0.2	0.2
Carezyme 5.0L	0.01 – 0.5	---	0.01 – 0.5
Polyethyleneimine 600, EO20	0.5 – 3.0	0.5 – 3.0	0.5 – 3.0
Polyethyleneimine 600, EO24, PO16	0.5 – 3.0	---	0.5 – 3.0
DTPA	0.1 – 1.0	0.1 – 1.0	0.1 – 1.0
Tiron®	0.1 – 1.5	0.1 – 1.5	0.1 – 1.5
Optical Brightener	0.1 – 1.0	0.1 – 1.0	0.1 – 1.0
MEA- Hydrogenated Castor Oil	0.5 – 3.0	----	
NaOH	0.1 – 1.0	0.1-1.0	
Na Cumene Sulfonate	1.1	----	
Na Formate	0.2	0.2	

Dye	0.1	0.1	
Malodor Reducing Composition	0.15-1.0	0.15-1.0	0.15-1.0
Perfume	0.9	0.5 - 3	
Water and Solvent	Balance	Balance	Balance

HSAS	secondary alkyl sulfate, acid form
DTPA	diethylene triamine pentaacetic acid (DTPA)
Tiron	4,5-Dihydroxy-1,3-benzenedisulfonic acid disodium salt monohydrate

The resulting heavy duty liquid product when used to wash articles of clothing is effective at reducing malodor on the washed clothing.

Examples 8.1-8.6 – Soluble Uni-dose Heavy Duty Liquid Composition

An example for a Soluble Uni-dose heavy duty liquid composition prepared with malodor reduction composition, according to the compositions shown in Example 1.

	8.1	8.2	8.3	8.4	8.5	3 compartments pouched product 8.6		
Form	liquid	liquid	liquid	liquid	gel	liq	liq	liq
Compartment #	1	1	1	1	1	1	2	3
Dosage (g)	36.0	38.0	32.0	36.0	40.0	34.0	25	35
Alkylbenzene sulfonic acid	14.5	13.8	16.0	14.5	13.5	14.5	20.0	
C_{12-14} alkyl ethoxy 3 sulfate	8.5	16.4	10.0	8.5	15.0	8.5		
C_{12-13} alkyl 3-ethoxylate				13.0				
C_{12-14} alkyl 7-ethoxylate	12.5	9.0	14.0		4.0	12.5	17.0	
C12-18 Fatty acid	14.5	8.5	16.0	15.0	7.2	14.5	13.0	
Citric acid				2.0	4.1			
Enzymes	0-3	0-3	0-3		0-3	0-3	0-3	
PAP granule [1]								50.0

Ethoxysulfated Hexamethylene Diamine Dimethyl Quat		3.0					2.2	
Ethoxylated Polyethylenimine	4.0	1.0		4.0	3.0	2.0		
Hydroxyethane diphosphonic acid	1.0	1.0			1.6	0.6	0.6	
Ethylene diamine tetra(methylene phosphonic) acid				1.0				
Brightener	0.2	0.2	0.3	0.3	0.2	0.2	0.2	
Polydimethyl Siloxane			3.0					
Hueing dye [2]							0.05	
Perfume	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0		
Malodor reducing composition	0.3-0.7	0.3-0.7	0.3-0.7	0.3-0.7	0.3-0.7	0.3-0.7		
Water and minors	To 100%							
Buffers (sodium carbonate, monoethanolamine)	To pH 8.0							
Solvents (1,2 propanediol, ethanol), Sulfate	To 100%							

1 PAP granule

2 Hueing dye

The resulting Unidose pouch product when used to wash articles of clothing is effective at reducing malodor on the washed clothing.

Examples 9.1-9.5 - Fabric Enhancer Solid Paricle or Bead Composition

An example of a Fabric Enhancer bead composition prepared with malodor reduction composition, according to the compositions shown in Example 1.

;

	Example 9.1	**Example 9.2**	**Example 9.3**	**Example 9.4**	**Example 9.5**
Ingredients	**Active Wt%**	**Active Wt%**	**Active Wt%**	**Active Wt%**	**Active Wt%**
PEG 8000	86.21	83.255	83.255	86.21	82.49
Free (Neat) Perfume	4.41	5.88	4.41	4.25	5.88
Malodor reducing composition	0.75-1.5	0.75-1.5	0.75-1.5	0.75-1.5	0.75-1.5
Perfume Micro Capsule (PMC)	5.88	8.22	8.88	5.88	8.70
Encapsulated Perfume	1.88	1.88	1.88	1.88	1.88
Malodor Reducing Composition	1.47	---	1.47	1.63	---
Encapsulated Malodor Reducing Composition	---	0.75	0.75	---	0.9
Aesthetics Dye	0.015	0.015	0.015	0.015	0.015

1. PMC is a friable PMC with a urea-formaldehyde shell from Appvion-Encapsys. About 50% water by weight of the PMC (including encapsulated perfume) is assumed.
2. Encapsulated perfume (within PMC) assumes about 32% active

The resulting Fabric enhancing bead product when added to an automatic washing machine is effective at reducing malodor on the clothing.

Examples 10.1-10.4 - Dryer Added Fabric Softener Sheet Composition

An example of a dryer added fabric softener sheet composition prepared with malodor reduction composition, according to the compositions shown in Example 1.

	Example 10.1	**Example 10.2**	**Example 10.3**	**Example 10.4**
Ingredient	**Wt% Active**	**Wt% Active**	**Wt% Active**	**Wt% Active**
DEQA[1]	---	50	---	---
DEQA[2]	30	---	---	30
DTDMAMS[3]	---	---	50	---
7018FA[4]	---	---	50	---
TS-20[5]	15	---	---	15
SMS[6]	15	---	---	15

SDASA[7]	19	25	---	19
TPED[8]	---	3	---	---
Complex[9]	16.5	16.5	---	8.0
Clay[10]	3	4	---	3
Free (Neat) Perfume	1.5	1.5	---	1.5
Free (Neat) malodor reducing compostion	0.5	0.5	0.5	---
Encapsulated Perfume/malodor reducing composition [11]	---	---	---	1.56
Encapsulated Perfume[12]	---	0.4	---	---
Encap malodor reducing composition	---	---	---	0.5
Active Weight (g/sheet)	2.4	2.4	1.9	2.4

(1) DEQA[1]: Di(soft tallowoyloxyethyl)dimethylammonium methyl sulfate with 25%> 7018 FA, as described below, as solvent

(2) DEQA[2]: Di(soft tallowoyloxyethyl)hydroxyethylmethylammoniun methyl sulfate with 18%» partially hydrogenated tallow fatty acid solvent

(3) DTDMAMS: Di(hydrogenated tallowalkyl)dimethylammonium methyl sulfate

(4) 7018FA: 70:30 Stearic Acid:Palmitic Acid (IV=0) Industrene 7018 sold by Witco

(5) TS-20: Polyoxyethylene-20 Sorbitan Tristearate (Glycosperse TS-20, sold by Lonza

(6) SMS: Sorbitan Mono Stearate

(7) SDASA: 1 :2 ratio of stearyl dimethyl amine: triple pressed stearic acid

(8) TPED: N,N,N',N'-Tetrakis(2-hydroxypropyl)ethylenediamine (Quadrol, sold by BASF)

(9) Complex: Beta-Cyclodextrin/Perfume Complex

(10) Clay: Calcium Bentonite Clay (Bentonite L sold by Southern Clay Products

Free (Neat) Perfume

(11) PMC is a friable PMC with a urea-formaldehyde shell from Appleton. About 50% water by weight of the PMC (including encapsulated perfume and/ or blocker) is assumed.

(12) Encapsulated perfume and encapsulated malodor reducing composition (within PMC) assumes about 32% active

The compositions of Example 10 are mixed homogeneously and impregnated onto a non- woven polyester sheet having dimensions of about 6¾ in x 12" (about 17.1 cm x 30.5 cm) and weighing about 1 gram.

The resulting dryer added fabric softener sheet product when added to an automatic dryer is effective at reducing malodor on the clothing.

Examples 11.1-11.4 – Liquid Fabric Enhancer Composition

An example of a Liquid Fabric Enhancer composition prepared with malodor reduction composition, according to the compositions shown in Example 1.

	Example 11.1	Example 11.2	Example 11.3	Example 11.4
Ingredient	**Wt% Active**	**Wt% Active**	**Wt% Active**	**Wt% Active**
FSA[1]	12	21	18	14
Low MW alcohol	1.95	3.0	3.0	2.28
Structurant[2,3]	1.25[e]	-----	0.2[f]	-----
Free (Neat) Perfume	1.50	1.8	2.0	1.50
Free (Neat) malodor reducing composition	0.3	0.7	----	----
Encapsulated Perfume[4]	-----	0.6	-----	0.6
Encap malodor reducing composition [4]	----	----	0.6	0.6
Perfume/ malodor reducing composition encapsulated[5]	-----	1.85	1.85	3.7
Calcium Chloride	0.10	0.12	0.1	0.45
DTPA[6]	0.005	0.005	0.005	0.005
Preservative (ppm)[7]	5	5	5	5
Antifoam[8]	0.015	0.15	0.11	0.011
Polyethylene imines[9]	0.15	0.05	-----	0.1
Delivery enhancing	0.1	0.1	0.2	0.05
PDMS emulsion[10]	-----	0.5	1	2.0
Dispersant[11]	----	----	0.5	0.2
Organosiloxane	5	-----	-----	-----
Front-end Stability Aid[12,13]	0.06[11]	0.63[12]	0.36[11]	0.14[12]
Dye (parts per million ppm)	40	11	30	40
Ammonium Chloride				0.10

Hydrochloric Acid	0.010	0.01	0.10	0.010
Deionized Water	Balance	Balance	Balance	Balance

(1) N,N-di(tallowoyloxyethyl)-N,N-dimethylammonium chloride.

(2) Cationic high amylose maize starch-available from National Starch under the trade name HYLON VII ®.

(3) Cationic polymer available from BASF ® under the name Rheovis ® CDE.

(4) Encapsulated perfume and encapsulated malodor reducing composition (within PMC) assumes about 32% active

(5) PMC is a friable PMC with a urea-formaldehyde shell from Appleton. About 50% water by weight of the PMC (including encapsulated perfume and/ or malodor reducing composition) is assumed.

(6) Diethylene triamine pentaacetic acid

(7) 19% active aqueous solution of 1,2 Benzisothiazolin-3-one (BIT) in dipropylene glycol and water available from Dow Chemical under the trade name Koralone B-119

(8) Silicone antifoam agent available from Dow Corning ® under the trade name DC2310.

(9) Polyethylene imines available from BASF under the trade name Lupasol ®.

(10) Polydimethylsiloxane emulsion from Dow Corning ® under the trade name DC346.

(11) Non-ionic such as TWEEN 20 ™ or cationic surfactant as Berol 648 and Ethoquad ® C 25 from Akzo Nobel.

(12) Organosiloxane polymer condensate made by reacting hexamethylenediisocyanate (HDI), and a, w silicone diol and 1,3-propanediamine, N'-(3-(dimethylamino)propyl)-N,N-dimethyl- Jeffcat Z130) or N-(3-dimethylaminopropyl)-N,Ndiisopropanolamine (Jeffcat ZR50) commercially available from Wacker Silicones, Munich, Germany.

(13) Fineoxocol ® 180 from Nissan Chemical Co.

(14) Isofol ® 16 from Sasol.

**For example PGE

Examples 11.1 to 11.4 are made by combining the molten fabric softener active with the front-end stability agent to form a first mixture. This first mixture is combined with water and hydrochloric acid using a high shear mixing device to form a second mixture. The adjunct ingredients are combined with the second mixture using low shear mixing to form the fabric enhancing formula.

Examples 11.1 through 11.4 are used by dosing 10 to 60 g of the formula into the rinse liquor for example via dispensing into a clothes washing machine. Clothes are dried on a line or in an automated clothes dryer. The fabrics treated with these formulas have improved feel and scent and are effective at reducing malodor on the clothing.

Example 12.1-12.2 – Spray-Dried Laundry Detergent Powder composition and Process of Making it

An example of a Spray-Dried Laundry Detergent Powder composition prepared with malodor reduction composition, according to the compositions shown in Example 1.

Compositions	Slurry 12.1	Dried Powder 12.1	Slurry 12.2	Dried Powder 12.2
	w/w%	w/w%	w/w%	w/w%
Linear alkyl benzene sulfonate	10.6	15.8	21.3	35.7
Acrylate/ maleate copolymer	4.6	6.8	9.4	14.2
Ethylenediame disuccinic acid and /or Hydroxyethane dimethylene phosphonic acid	1.4	2.1	1.7	2.9
Sodium carbonate	19.4	26.5	18.8	29.9
Sodium sulfate	28.6	42.4	----	----
Carboxy methyl cellulose polymer	---	----	4.3	7.1
Miscellaneous, such as magnesium sulfate, brightener and one or more stabilizers	1.4	2.2	2.5	4.2
Free (Neat) Perfume (spray-on)	---	1.7	----	2.4
Free (Neat) malodor reduction composition (spray-on)	---	0.5	----	0.6
Water	34.0	2.0	42.0	3.0

Preparation of Spray-Dried Laundry Detergent Powders.

Aqueous slurry12.1 having the composition as described above is prepared having a moisture content of 34.0%. Any ingredient added above in liquid form is heated to 70° C., such that the aqueous slurry is never at a temperature below 70° C. At the end of preparation, the aqueous slurry is heated to 80° C. and pumped under pressure ($5\times10^{6}Nm^{-2}$), into a counter current spray-drying tower with an air inlet temperature of from 290° C. The aqueous slurry is atomized and the atomized slurry is dried to produce a solid mixture, which is then cooled and sieved to

remove oversize material (>1.8 mm) to form a spray-dried powder, which is free-flowing. Fine material (<0.15 mm) is elutriated with the exhaust the exhaust air in the spray-drying tower and collected in a post tower containment system. The spray-dried powder 12.1 has a moisture content of 2.0 wt %, a bulk density of 310 g/l and a particle size distribution such that greater than 90 wt % of the spray-dried powder has a particle size of from 150 to 710 micrometers. The composition of the spray-dried powder 12.1 is listed in the table above. Perfume and malodor reduction composition are sprayed onto the composition following the spray dry procedure.

Aqueous slurry 12.2 having the composition as described above is prepared having a moisture content of 42.0%. Any ingredient added above in liquid form is heated to 70° C., such that the aqueous slurry is never at a temperature below 70° C. At the end of preparation, the aqueous slurry is heated to 85° C. and pumped under pressure (from $6.5\times10^{6}Nm^{-2}$), into a counter current spray-drying tower with an air inlet temperature of from 275° C. The aqueous slurry is atomized and the atomized slurry is dried to produce a solid mixture, which is then cooled and sieved to remove oversize material (>1.8 mm) to form a spray-dried powder 12.2, which is free-flowing. Fine material (<0.15 mm) is elutriated with the exhaust the exhaust air in the spray-drying tower and collected in a post tower containment system. The spray-dried powder has a moisture content of 3.0 wt %, a bulk density of 250 g/l and a particle size distribution such that greater than 90 wt % of the spray-dried powder has a particle size of from 150 to 710 micrometers. The composition of the spray-dried powder is given in the table above. Perfume and malodor reduction composition are sprayed onto the composition after the spray dry process.

Example 13 Plastic film Example with Malodor Reducing Composition

A plastic film is treated with an Malodor Reduction Composition disclosed in the present specification. Said treatment is accomplished by spraying said Malodor Reduction Composition on the film. Said Malodor Reduction Composition is applied to at a level of 0.1% to 5% based on weight of the film. The Malodor Reduction Composition is found on the surface and may also be absorbed into the plastic film.

Example 14: Diaper example with Malodor reducing composition

A diaper article, is treated with a Malodor Reduction Composition disclosed in the present specification. The Malodor Reduction Composition is disposed on one or more areas such as:

- the garment-facing side;
- the body-facing side of the topsheet;

- the absorbent core;
- the body-facing side of the backsheet.

The Malodor Reduction Composition may also be disposed on the garment-facing side of the absorbent core and/or on other components such as the garment facing side of a nonwoven dusting layer or body-facing side of a secondary topsheet or acquisition layer. In some embodiments, a topsheet or an acquisition layer may comprise a tissue layer and/or a nonwoven layer, and the malodor reduction composition may be disposed on either the tissue layer or the nonwoven layer. As discussed below, the Malodor Reduction Composition may be in the absorbent article via incorporation into an adhesive. In some embodiments, the Malodor Reduction Composition may be incorporated into the absorbent article via a lotion that is applied to a substrate component of the article. In some embodiments, the malodor reduction composition may be incorporated into the absorbent article via an elastomeric film. In some embodiments, the malodor reduction composition may be in an article by having been incorporated into the making of an article component, including, but not limited to, a film, a nonwoven, AGM, elastics, and/or ink.

Example 16.1-16.5 Deodorant example with Malodor reducing composition.

An example of Deodorant compositions prepared with malodor reduction composition, according to the compositions shown in Example 1.

Ingredient	16.1	16.2	16.3	16.4	16.5
Product Form	Solid Deodorant Control	Solid Deodorant	Solid Deodorant	Solid Deodorant	Aerosol Deodorant or Body Spray
dipropylene glycol	48	48	20	30	20
propylene glycol	19.3	19.3	22	-	-
tripopylene glycol	-	-	25	-	-
Glycerine	-	-	-	10	-
PEG -8	-	-	-	20	-
Propylene Glycol 3 Myristyl Ether	1.4	1.4	-	-	-
ethanol	-	-	-	-	QS
Water	QS	QS	QS	QS	-
sodium stearate	5.4	5.4	5.5	5.5	-
tetra sodium EDTA	0.5	0.5	0.05	0.05	-
sodium hydroxide	-	-	0.04	0.04	-
triclosan	-	-	0.3	0.3	-
Neat Perfume	2.8	2.8	2	1.5	1.5

Malodor reducing composition	-	0.7	1.0	0.5	0.35
Blue 1	0.0009	0.0009	-	-	-
Propellant (1,1 difluoroethane)	-	-	-	-	40

QS – Indicates that this material is used to bring the total to 100%.

Examples 17.1-17.3: Body wash with Malodor reducing composition

An example of Body Wash compositions prepared with malodor reduction composition, according to the compositions shown in Example 1.

	17.1 Body Wash	17.2Body Wash	17.3Body Wash
Sodium Laureth-3 Sulfate (as 28% active)	27.85%	27.85%	27.85%
Water	Q.S.	Q.S.	Q.S.
Sodium Lauryl Sulfate (as 29% active)	10.34	10.34	10.34
Cocamidopropyl Betaine B (30% active)	4.01	4.01	4.01
Citric Acid	0.18	0.18	0.18
Sodium Benzoate	0.3	0.3	0.3
Disodium EDTA	0.12	0.12	0.12
Methylchloroisothiazolinone/Methylisothiazolinone	0.04	0.04	0.04
Sodium Chloride	2.35	1.7	1.6
Neat Perfume	1.25	1	2
Malodor reducing composition	0.25	0.175	0.25

QS – indicates that this material is used to bring the total to 100%.

Examples 18.1-18.6: Antiperspirant examples with Malodor reducing composition

An example of Antipersiprant compositions prepared with malodor reduction composition, according to the compositions shown in Example 1.

	18.1 Invisible Solid	18.2Invisible Solid	18.3Invisible Solid	18.4Soft Solid	18.5Soft Solid	18.6Soft Solid
Aluminum Zirconium Trichlorohydrex Glycine Powder	24	24	24	26.5	26.5	26.5
Cyclopentasiloxane	Q.S	Q.S.	Q.S.	Q.S.	Q.S.	Q.S.
Dimethicone	-	-	-	5	5	5
CO-1897 Stearyl Alcohol NF	14	14	14	-	-	-
Hydrogenated Castor Oil MP80 Deodorized	3.85	3.85	3.85	-	-	-
Behenyl Alcohol	0.2	0.2	0.2	-	-	-
Tribehenin	-	-	-	4.5	4.5	4.5
C 18 – 36 acid triglyceride	-	-	-	1.125	1.125	1.125
C12-15 Alkyl Benzoate	9.5	9.5	5	-	-	-
PPG-14 Butyl Ether	6.5	6.5	-	0.5	0.5	0.5
Phenyl Trimethicone	3	-	3	-	-	-
White Petrolatum	3	-	-	3	3	3
Mineral Oil	1.0	1.0	1.0	-	-	-
Free (Neat) Perfume	1.0	0.75	2.0	0.75	1.0	1.25
Malodor reducing composition	0.25	-	0.35	0.175	0.25	0.1
Beta-Cyclodextrin complexed with Malodor reducing composition	-	3.0	-	-	-	3.0
Talc Imperial 250 USP	3.0	3.0	3.0	-	-	-
Polyacrylate Microcapsule loaded with Malodor reducing composition	-	-	1.9	-	-	-

QS – indicates that this material is used to bring the total to 100%.

Example 19.1-19.4: Dish cleansing composition examples with Malodor reducing composition

An example of Dish cleaning compositions prepared with malodor reduction composition, according to the compositions shown in Example 1.

	19.1	19.2	19.3	19.4
Alkyl C_{10-14} Ethoxy Sulphate (AE0.6S)	26.9	-	-	25.7
Alkyl C_{10-14} Ethoxy Sulphate (AE2S)	-	18.7	26.9	-
Sodium alkyl benzene sulfonate	-	8.0	-	-
C12-14 dimethyl amine oxide	6.1	-	-	4.1
Cocamido propyl betaine	-	4.5	6.8	3.2
Branched Nonionic: 3-propyl heptanol EO8	1.0	0.8	-	-
PEI600-EO10-PO7 block polymer	-	-	0.8	-
Perfume	0.15-0.3	0.15-0.3	0.15-0.3	0.15-0.3
Malodor Reducing Composition	0.06-0.15	0.06-0.15	0.06-0.15	0.06-0.15
Ethanol	4.0	5.0	3.0	3.0
Polypropylene glycol MW2000	1.1	0.8	1.1	1.1
Sodium Chloride	1.3	0.8	1.3	0.5
Minors* and water	to balance up to 100%			

Examples 20.1–20.4 - Heavy Duty Liquid Composition

A HDL-Heavy Duty Liquid composition is prepared with malodor reduction composition, according to the compositions shown in Example 1.

	Example 20.1	Example 20.2	Example 20.3	Example 20.4
Ingredient	**WT% Active**	**WT% Active**	**WT% Active**	**WT% Active**
$AE_{1.8}S$	16	16	12	8
$C_{11.8}$ linear alkyl benzene sulfonic acid	3	3	8	--
HSAS[1]	14	14	0	22
C24 alcohol, EO9	2	2	1	2
Citric Acid	1	1	2	2
Lactic Acid	---	6	---	---
C_{12}-C_{18} Fatty Acid	2	1	1	3
Protease (55.3 mg/g)	2	2	2	2
Amylase (25.4mg/g)	0.7	0.7	0.7	0.7
Borax	3.6	3.6	3.6	3.6
Calcium Formate	0.2	0.2	0.2	0.2
Polyethyleneimine 600, EO20	1.6	1.6	---	1.6
Polyethyleneimine 600, EO24, PO16	1.6	---	2.0	1.6
DTPA[2]	0.3	0.3	0.3	0.3
Tiron®[3]	0.8	0.8	0.8	0.8
Optical Brightener	0.3	0.3	0.3	0.3
NaOH	4	9	4	9
Na Cumene Sulfonate	1	1	1	1
Na Formate	0.2	0.2	0.2	0.2
Aesthetics Dye	0.03 – 1	0.03 – 1	0.03 – 1	0.03 – 1
Perfume	0.5 – 3	0.5 – 3	0.5 – 3	0.5 – 3
Malodor Reducing Composition	0.1 - 1	0.1 - 1	0.1 - 1	0.1 - 1
Water and Solvent	Balance	Balance	Balance	Balance
pH	5	8	5	8

The resulting heavy duty liquid product when used to wash articles of clothing is effective at reducing malodor on the washed clothing.

Examples 21.1-21.3 - Heavy Duty Liquid Composition

Other examples of HDL-Heavy Duty Liquid composition prepared with malodor reduction composition, according to the compositions shown in Example 1.

	Example 21.1	Example 21.2	Example 21.3
Ingredient	**WT% Active**	**WT% Active**	**WT% Active**
$AE_{1.8}S$	14	8	11
Amine Oxide	2	---	---
$C_{11.8}$ linear alkyl benzene sulfonic acid	10%	---	---
HSAS[1]	----	20	15
C24 alcohol, EO9	1 - 2	1 - 2	1 - 2
Citric Acid	0.5 - 3	0.5 - 3	0.5 - 3
C_{12}-C_{18} Fatty Acid	1 - 2	1 - 2	1 - 2
Protease (55.3 mg/g)	0.013 – 0.8	0.013 – 0.8	0.013 – 0.8
Amylase (25.4mg/g)	0.02 – 0.7	0.02 – 0.7	0.02 – 0.7
Borax	2 – 8	2 – 8	2 – 8
Calcium Formate	0.2	0.2	0.2
Carezyme 5.0L	0.01 – 0.5	---	0.01 – 0.5
Polyethyleneimine 600, EO20	0.5 – 3	0.5 – 3	0.5 – 3
Polyethyleneimine 600, EO24, PO16	0.5 – 3	---	0.5 – 3
DTPA[2]	0.1 – 1	0.1 – 1	0.1 – 1
Tiron® [3]	0.1 – 2	0.1 – 2	0.1 – 2
Optical Brightener	0.1 – 1	0.1 – 1	0.1 – 1
MEA - Hydrogenated Castor Oil		0.5 – 3	0.5 – 3
NaOH	0.1 – 1	0.1 – 1	0.1 – 1
Na Cumene Sulfonate	1.1	----	---
Na Formate	0.2	0.2	0.2
Dye	0.1	0.1	0.1
Malodor Reducing Composition	0.15-1.0	---	0.15-1.0
Encapsulated Malodor Reducing[4]	---	0.3 - 3	---
Perfume	0.5 - 2	0.5 - 2	---
Encapsulated Perfume[4]	---	---	1.5 - 3
Water and Solvent	Balance	Balance	Balance

1. HSAS is secondary alkyl sulfate, acid form
2. DTPA is diethylene triamine pentaacetic acid (DTPA)
3. Tiron is 4,5-Dihydroxy-1,3-benzenedisulfonic acid disodium salt monohydrate
4. Encapsulated perfume and encapsulated malodor reducing composition is a slurry. One non-limiting example of an encapsulate is a friable microcapsule with a urea-formaldehyde shell from Appvion-Encapsys. About 50% water by weight of the PMC (including encapsulated perfume) is assumed.

The resulting heavy duty liquid product when used to wash articles of clothing is effective at reducing malodor on the washed clothing.

Examples 22.1-22.3 - Fabric Enhancer Solid Paricle or Bead Composition

An example of a Fabric Enhancer bead composition prepared with malodor reduction composition, according to the compositions shown in Example 1.

	Example 22.1	Example 22.2	Example 22.3
Ingredients	**Active Wt%**	**Active Wt%**	**Active Wt%**
PEG 8000	80-90	80-90	80-90
Free (Neat) Perfume	3.5-6	4-6	3-5
Malodor reducing composition	0.5-2	0.5-2	0.5-2
Encapsulated Perfume [1]	0- 2	0- 2	2 -3
Encapsulated Malodor Reducing Composition [1]	---	0.5 - 2	---
Dipropylene Glycol	0 - 6	0 -5	0 - 4.5
Aesthetics Dye	0.015	0.015	0.015

3. Encapsulated perfume and encapsulated malodor reducing composition is a slurry. One non-limiting example of an encapsulate is a friable microcapsule with a urea-formaldehyde shell from Appvion-Encapsys. About 50% water by weight of the PMC (including encapsulated perfume) is assumed.

The resulting Fabric enhancing bead product when added to an automatic washing machine is effective at reducing malodor on the clothing.

Example: 23.1 – 23.6 Malodor Reduction Composition

The following malodor reduction malodor reduction compositions are made by combining the listed ingredients. All ingredients are in weight percent of the total malodor reduction composition.

Ingredient	CAS#	23.1	23.2	23.3	23.4	23.5	23.6
(3aR,5aS,9aS,9bR)-3a,6,6,9a-tetramethyl-2,4,5,5a,7,8,9,9b-octahydro-1H-benzo[e][1]benzofuran	6790-58-5	0.1	0.5	0	0	0.5	0.2
7-(3-methylbutyl)-1,5-benzodioxepin-3-one	362467-67-2	1	0.5	0.07	0.6	0.01	0
triethyl 2-hydroxypropane-1,2,3-tricarboxylate	77-93-0	0.05	0.2	1	0.5	0.09	0.03
1,1,2,3,3-pentamethyl-2,5,6,7-tetrahydroinden-4-one	33704-61-9	1	1	0.5	0.5	0.2	0.2
(3R,3aS,6S,7R,8aS)-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	19870-74-7	2	1	0	2	1	3
(5E)-3-methylcyclopentadec-5-en-1-one	63314-79-4	0.3	0.2	0.43	0	0.15	0.17
4-(octahydro-4,7-methano-5H-inden-5-ylidene)butanal	30168-23-1	0.5	1	0.7	1	0.2	0.4
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	5413-60-5	3	1	0.5	0.5	1	0.8
3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-1-yl propanoate	68912-13-0	4	0.8	2	2	0.5	1
5-(diethoxymethyl)-1,3-benzodioxole	40527-42-2	0.7	0.5	0	0	1	0
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylcyclopenta(g)-2-benzopyran	1222-05-5	5	8	3	8	10	5
1-(2,3,8,8-tetramethyl-1,3,4,5,6,7-hexahydronaphthalen-2-yl)ethanone	54464-57-2	18	25	54	28	20	50
2,2,7,7-tetramethyltricyclo[6.2.1.01,6]undecan-5-one	23787-90-8	0.6	0.5	0.5	3	1	0
[(1R,2S)-1-methyl-2-[[(1R,3S,5S)-1,2,2-trimethyl-3-bicyclo[3.1.0]hexanyl]methyl]cyclopropyl]methanol	198404-98-7	0.05	0.5	0	0.18	0.05	0.1

2,4-dimethyl-4,4a,5,9b-tetrahydroindeno[1,2-d][1,3]dioxine	27606-09-3	40	38	26	26	20	10
methyl 3-oxo-2-pentylcyclopentaneacetate	24851-98-7	15	7	5	15	22	22
2-[2-(4-methyl-1-cyclohex-3-enyl)propyl]cyclopentan-1-one	95962-14-4	5	7	5	10	16	5
2,2-dimethoxyethylbenzene	101-48-4	0.4	1	0.5	1	1	0
(E)-3,3-dimethyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)-4-penten-2-ol	107898-54-4	0.2	1	0	0.7	0.2	1
octahydro-5-methoxy-4,7-methano-1H-indene-2-carboxaldehyde	86803-90-9	0.1	0.3	0.3	0.02	0.1	0.1
1-oxacycloheptadecan-2-one & cyclopentadecanone	109-29-5 & 502-72-7	3	5	0.5	1	5	1
TOTAL		100	100	100	100	100	100

Each of the malodor reduction compositions of Examples 23.1 throught 23.6 is used in a consumer product by combining the malodor reduction composition at a level of about 0.05% to about 0.35%, based on total consumer product weight, with the consumer product. Then the consumer product is applied to a site on the human body that is in need of malodor reduction. In one aspect, the consumer product is selected from a shampoo, body wash, conditioner and an antiperspirant/ deodorant.

EXAMPLES 24.1 -24.6: Malodor Reduction Composition

The following malodor reduction malodor reduction compositions are made by combining the listed ingredients. All ingredients are in weight percent of the total malodor reduction composition.

Ingredient	**CAS #**	**24.1**	**24.2**	**24.3**	**24.4**	**24.5**	**24.6**
(E)-1-(2,6,6-trimethyl-1-cyclohex-2-enyl)pent-1-en-3-one	127-42-4	4	8	2	8	3	2
ethyl dodecanoate	106-33-2	0	1	0	3	0	0

3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-1-yl propanoate	68912-13-0	8	30	1	4	1	3.5
[1R-(1R*,4R*,6R*,10S*)]-4,12,12-trimethyl-9-methylene-5-oxatricyclo[8.2.0.04,6]dodecane	1139-30-6	0	0.3	2	.5	0	0.5
(8E)-cyclohexadec-8-en-1-one	3100-36-5	0	5	0	7	0	0
3,5,5-trimethylhexyl acetate	58430-94-7	25	15	50	35	60	56
ethyl (2,3,6-trimethylcyclohexyl) carbonate	93981-50-1	0	1	0	5	0	0
2,4-dimethyl-4,4a,5,9b-tetrahydroindeno[1,2-d][1,3]dioxine	27606-09-3	25	10	15	15	16	15
2,2,7,7-tetramethyltricyclo[6.2.1.01,6]undecan-5-one	23787-90-8	8	9	5	7	5	5
(3,5-dimethylcyclohex-3-en-1-yl)methanol	67634-16-6	0	0.7	0	.5	0	0
3-(7,7-dimethyl-4-bicyclo[3.1.1]hept-3-enyl)-2,2-dimethylpropanal	33885-52-8	30	20	25	15	15	18
Total		100	100	100	100	100	100

Each of the malodor reduction compositions of Examples 24.1 through 24.6 is used as a perfume component in an air care device at a level of form about 5% to about 100% or in other consumer products by combining the malodor reduction composition at a level of about 0.0003% to about

5% based on total consumer product weight, with the consumer product. Then the consumer product is applied to a site on the human body that is in need of malodor reduction, used in an air care device and/or as a treatment composition to treat a fabric and/or hard surface. In one aspect, the consumer product is selected from a shampoo, body wash, conditioner, an antiperspirant/ deodorant and/or a fabric or hard surface cleaner or treatment composition such as a detergent or fabric enhancer.

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 a functionally equivalent range surrounding that value. For example, a dimension disclosed as "40 mm" is intended to mean "about 40 mm."

Every document cited herein, including any cross referenced or related patent or application, is hereby incorporated herein by reference in its entirety unless expressly excluded or otherwise limited. The citation of any document is not an admission that it is prior art with respect to any invention disclosed or claimed herein or that it alone, or in any combination with any other reference or references, teaches, suggests, or discloses any such invention. Further, 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 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:

1. A composition comprising a malodor reduction material having an MORV of at least 0.5, preferably from 0.5 to 10, more preferably from 1 to 10, most preferably from 1 to 5.

2. A composition comprising a malodor reduction material having a Universal MORV.

3. A composition according to Claim 1 comprising a malodor reduction material is selected from the group consisting of 1,1-dimethoxynon-2-yne, para-Cymen-8-ol; 3-methoxy-7,7-dimethyl-10-methylenebicyclo[4.3.1]decane; Methoxycyclododecane; 4-(tert-pentyl)cyclohexan-1-one; 7-isopropyl-8,8-dimethyl-6,10-dioxaspiro[4.5]decane; Octyl acetate; octanal propylene glycol acetal; Octanal; Octanal dimethyl acetal; Myrcene; Myrcenol; Myrcenyl acetate; Ocimenol; Nonyl alcohol; Nonaldehyde; 2-methoxynaphthalene; Nerol; 1-ethyl-3-methoxytricyclo[2.2.1.02,6]heptane; Methyl (E)-non-2-enoate; Myrtenal; Methyl octine carbonate; Methyl octyl acetaldehyde; 6,6-dimethoxy-2,5,5-trimethylhex-2-ene; Methyl phenylethyl carbinol; Methyl nonyl acetaldehyde dimethyl acetal; Methyl nonyl ketone; Methyl nonyl acetaldehyde; Methyl isoeugenol; Methyl eugenol; Methyl diphenyl ether; Methyl cinnamate; Methyl chavicol; Methyl 2-octynoate; Methyl alpha-cyclogeranate; Methoxycitronellal; Octahydro-1H-4,7-methanoindene-1-carbaldehyde; Maceal; l-Limonene; (Z)-3-hexen-1-yl-2-cyclopenten-1-one; Linalyl isobutyrate; Linalool oxide (furanoid); 3-(4-methylcyclohex-3-en-1-yl)butanal; (E)-1-(1-methoxypropoxy)hex-3-ene; Leaf acetal; l-Carveol; Lauraldehyde; 2-propylheptanenitrile; 2-hexylcyclopentan-1-one; 2-methyl-4-phenyl-1,3-dioxolane; 2,6,9,10-tetramethyl-1-oxaspiro(4.5)deca-3,6-diene; Isopulegol; Isomenthone; 2-hexylcyclopent-2-en-1-one; Isomenthone; Isocyclocitral; Isobornyl propionate; Isobornyl isobutyrate; Isobornyl acetate; Irisnitrile; Hydrocinnamyl alcohol; Hydratropaldehyde dimethyl acetal; 5-ethyl-4-hydroxy-2-methylfuran-3(2H)-one; Hexyl hexanoate; Hexenyl tiglate; 2-butyl-4,4,6-trimethyl-1,3-dioxane; Ethyl (1R,2R,3R,4R)-3-isopropylbicyclo[2.2.1]hept-5-ene-2-carboxylate; 3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl acetate; Gyrane; Ethyl 2-ethyl-6,6-dimethylcyclohex-2-ene-1-carboxylate; gamma-Terpinyl acetate; gamma-Terpineol; gamma-Muurolene; gamma-Himachalene; gamma-Cadinene; Furfuryl hexanoate; 2-methyldecanenitrile; Ethyl (3aR,4S,7R,7aR)-octahydro-3aH-4,7-methanoindene-3a-carboxylate; (E)-4,8-dimethyldeca-4,9-dienal; 2-heptylcyclopentan-1-one; 3-cyclohexene-1-carboxylic acid, 2,6,6-trimethyl-, methyl ester; Eugenol; Ethyl nonanoate; Ethyl hexyl ketone; Ethyl decanoate; Ethyl

gamma-Safranate; (2-(1-ethoxyethoxy)ethyl)benzene; Dodecanal dimethyl acetal; d-Limonene; Diphenyloxide; Diphenylmethane; 2,6-dimethyloct-7-en-4-one; Octahydro-1H-4,7-methanoinden-5-yl acetate; Dihydrocarveol acetate; Dihydrocarveol; Dihydro Linalool; Dibutyl sulfide; delta-Elemene; (Z)-1-((1R,2S)-2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one; delta-3-Carene; Decyl propionate; Decanal diethyl acetal; Decahydro-beta-naphthol; 1-cyclohexylethyl (E)-but-2-enoate; Cumic alcohol; Citral propylene glycol acetal; Citral dimethyl acetal; cis-Ocimene; cis-Limonene oxide; cis-6-nonenol; cis-carveol; cis-4-Decen-1-al; cis-3-hexenyl-cis-3-hexenoate; cis-3-Hexenyl 2-methylbutyrate; cis-3, cis-6-nonadienol; Cinnamyl formate; Cinnamic alcohol; Cedryl methyl ether; Caprylnitrile; Caprylic alcohol; Caprylic acid; Capraldehyde; 3-(4-methoxyphenyl)-2-methylpropanal; Camphorquinone; Camphene; Bornyl isobutyrate; Bornyl acetate; 2-ethoxy-2,6,6-trimethyl-9-methylenebicyclo[3.3.1]nonane; Bigarade oxide; beta-Terpinyl acetate; beta-Terpineol; beta-Sesquiphellandrene; beta-Selinene; beta-Pinene; beta-Patchoulline; (2,2-dimethoxyethyl)benzene; beta-Farnesene; beta-Copaene; beta-Cedrene; beta-Caryophyllene ; Benzyl-tert-butanol; Benzyl dimethyl carbinol; 2'-isopropyl-1,7,7-trimethylspiro[bicyclo[2.2.1]heptane-2,4'-[1,3]dioxane]; Methyl (E)-octa-4,7-dienoate; alpha-Thujone; alpha-Terpinyl propionate; alpha-Selinene; alpha-Santalene; alpha-Patchoulene; alpha-Muurolene; alpha-Limonene; alpha-Gurjunene; alpha-Fenchene; alpha-Cubebene; alpha-Cedrene epoxide; alpha-Cadinene; alpha-Bergamotene; alpha-Amorphene; 1-Phenyl-2-pentanol; 2,4-Nonadienal; alpha,4-Dimethyl benzenepropanal; Allyl 2-(isopentyloxy)acetate; Allo-aromadendrene; Aldehyde C-11; Acetate C9; Acetaldehyde phenylethyl propyl acetal; Acetaldehyde dipropyl acetal; Acetaldehyde benzyl 2-methoxyethyl acetal; 9-decenal; 7-epi-alpha-Selinene; 6-Isopropylquinoline; 6,6-dimethyl-2-norpinene-2-propionaldehyde; 5-Isopropenyl-2-methyl-2-vinyltetrahydrofuran; 4-Terpinenol; 4-Pentenophenone; 4-Carvomenthenol; 4,5,6,7-Tetrahydro-3,6-dimethylbenzofuran; 3-Nonylacrolein; 3-Hexenyl isovalerate; 3,6-Dimethyl-3-octanyl acetate; 3-(p-Isopropylphenyl)propionaldehyde; 2-Undecenenitrile; 2-Undecenal; 2-trans-6-trans-Nonadienal; 2-Phenoxyethanol; 2-Nonen-1-al; 2-Nonanol; 2-Nonanone; 2-Hexylidene cyclopentanone; 2-Heptyl tetrahydrofuran; 2-Decenal; 2,6-Nonadienal; 2,6-Nonadien-1-ol; 2,6-dimethyl-octanal; 1-Decanol; 1-Hepten-1-ol, 1-acetate; 10-Undecenal; 1,8-Thiocineol; 1,3,5-undecatriene; 1,2-Dihydrolinalool; 1,3,3-trimethyl-2-norbornanyl acetate; 1,1,2,3,3-Pentamethylindan; (Z)-3-Dodecenal; (+)-Dihydrocarveol; Menthone; 3-(3-isopropylphenyl)butanal; 7-epi-sesquithujene; 3-Methylphenethyl alcohol; 3,6-Nonadien-1-ol; p-Cresyl isobutyrate; Perillaldehyde; Perillyl acetate; (2-isopropoxyethyl)benzene; Phenethyl alcohol; Phenylacetaldehyde ethyleneglycol acetal; 2-(6,6-

dimethylbicyclo[3.1.1]hept-2-en-2-yl)acetaldehyde; 6,6-dimethyl-2-methylenebicyclo[3.1.1]heptan-3-ol; p-Menth-3-en-1-ol; Propylene glycol; 2,4-dimethyl-4-phenyltetrahydrofuran; (Z)-6-ethylideneoctahydro-2H-5,8-methanochromene; Methyl 2,2-dimethyl-6-methylenecyclohexane-1-carboxylate; 4-methyl-2-phenyl-3,6-dihydro-2H-pyran; Sabinol; Safrole; Selina-3,7(11)-diene; Spirodecane; 2-(heptan-3-yl)-1,3-dioxolane; (Z)-dodec-4-enal; Tetrahydrojasmone; 2,6,10,10-tetramethyl-1-oxaspiro[4.5]dec-6-ene; Thujopsene; Thymol methyl ether; trans,trans-2,4-Nonadienal; trans-2,cis-6-Nonadienal; trans-2-Decenal; trans-2-Nonen-1-al; trans-3, cis-6-nonadienol; trans-4-Decen-1-al; trans-beta-ocimene; trans-beta-Ocimene; trans-Geraniol; Undecanal; (E)-4-methyldec-3-en-5-ol; Valencene; 1-methoxy-3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoindene; (Z)-hex-3-en-1-yl isobutyrate; Decahydro-3H-spiro[furan-2,5'-[4,7]methanoindene]; (2Z,6E)-nona-2,6-dienenitrile; 1',1',5',5'-tetramethylhexahydro-2'H,5'H-spiro[[1,3]dioxolane-2,8'-[2,4a]methanonaphthalene]; 1',1',5',5'-tetramethylhexahydro-2'H,5'H-spiro[[1,3]dioxolane-2,8'-[2,4a]methanonaphthalene] K, Cedryl methyl ether; beta-Copaene; 2'-isopropyl-1,7,7-trimethylspiro[bicyclo[2.2.1]heptane-2,4'-[1,3]dioxane]; alpha-Cedrene epoxide, Methoxycyclododecane; 1-ethoxy-4-(tert-pentyl)cyclohexane; (3Z)-1-(2-buten-1-yloxy)-3-hexene; 4-(2-methoxypropan-2-yl)-1-methylcyclohex-1-ene; 4-(tert-pentyl)cyclohexan-1-one; O-Methyl linalool; 7-isopropyl-8,8-dimethyl-6,10-dioxaspiro[4.5]decane; Octanal, 3,7-dimethyl-; Octanal dimethyl acetal; Myrcenol; 3,3-Dimethyl-5(2,2,3-Trimethyl-3-Cyclopenten-1yl)-4-Penten-2-ol; n-Hexyl 2-butenoate; Neryl Formate; Nerol; 1-ethyl-3-methoxytricyclo[2.2.1.02,6]heptane; Myrtenal; Myroxide; (E)-3,7-dimethylocta-4,6-dien-3-ol; (Z)-hex-3-en-1-yl cyclopropanecarboxylate; Methyl phenyl carbinyl propionate; Methyl phenylacetate; Methyl phenylethyl carbinol; Methyl isoeugenol; Methyl eugenol; Methyl geraniate; Methyl diphenyl ether; Methyl cyclopentylideneacetate; Methyl chavicol; Methoxymelonal; Methoxycitronellal; ((1s,4s)-4-isopropylcyclohexyl)methanol; Maceal; (Z)-3-hexen-1-yl-2-cyclopenten-1-one; Linalyl propionate; Linalyl formate; Linalyl acetate; Linalool; 3-(4-methylcyclohex-3-en-1-yl)butanal; (Z)-hex-3-en-1-yl methyl carbonate; 4-methylquinoline; (E)-1-(1-methoxypropoxy)hex-3-ene; L-Carvone; Lauraldehyde; 2-hexylcyclopentan-1-one; 2,6,9,10-tetramethyl-1-oxaspiro(4.5)deca-3,6-diene; Isopropylvinylcarbinol; Isopropyl 2-methylbutyrate; Isopentyrate; Isononyl acetate; Isononanol; Isobornyl propionate; Isobornyl acetate; Isoborneol; Isoamyl octanoate; Isoamyl isobutyrate; Hydrocinnamyl alcohol; Hydratropaldehyde dimethyl acetal; Hydratopic alcohol; Hexyl propanoate; Hexyl butyrate; Hexyl 2-methylbutanoate; Heptyl alcohol; Heptyl acetate; Heptaldehyde; Heliotropin; Gyrane; Geranyl nitrile; Geranyl formate; Geranial; gamma-

Terpinene; gamma-Muurolene; gamma-Himachalene; gamma-Cadinene; Furfuryl hexanoate; Ethyl (3aR,4S,7R,7aR)-octahydro-3aH-4,7-methanoindene-3a-carboxylate; 2-(sec-butyl)cyclohexan-1-one; 3-(2-ethylphenyl)-2,2-dimethylpropanal; (E)-4,8-dimethyldeca-4,9-dienal; 2-heptylcyclopentan-1-one; 2-(tert-butyl)cyclohexyl ethyl carbonate; Fenchyl alcohol; Eugenol; Eucalyptol; Ethyl octanoate; Ethyl 2-(cyclohexyl)propionate; d-p-8(9)-Menthen-2-one; 4-methyl-2-phenyltetrahydro-2H-pyran; Diphenyloxide; Diphenylmethane; Dihydromyrcenol; Dihydrojasmone; Dihydroisophorone; Dihydrocarvone; Dihydrocarveol acetate; Dihydro-alpha-terpinyl acetate; Dihydro-alpha-ionone; delta-Elemene; 2-pentylcyclopentan-1-one; Decahydro-beta-naphthol; Methyl (1s,4s)-1,4-dimethylcyclohexane-1-carboxylate; Cyclohexylethyl acetate; Cumic alcohol; Creosol; Cosmene; 4-cyclohexyl-2-methylbutan-2-ol; Citronellyl nitrile; Citronellyl formate; Citronellol; Citronellal; Citral; cis-Pinane; cis-6-nonenol; cis-3-Hexenyl valerate; cis-3-Hexenyl tiglate; cis-3-Hexenyl propionate; cis-3-Hexenyl butyrate; cis-3-Hexen-1-ol; cis-3-Hexenyl 2-methylbutyrate; cis-2-Hexenol; Cinnamyl nitrile; Cinnamic aldehyde; Cinnamic alcohol; Cinnamyl nitrile; Chloroxylenol; Carvacrol; Carvone; Carbitol; Caproyl alcohol; 2-(2,2,3-trimethylcyclopent-3-en-1-yl)acetonitrile; Camphor; Camphene; Bornyl acetate; Borneol; Bigarade oxide; beta-Pinene epoxide; beta-Phellandrene; beta-Caryophyllene ; Benzylacetone; Benzyl isovalerate; Benzyl isobutyrate; Benzyl butyrate; Benzyl alcohol; 1-(3,3-dimethylcyclohexyl)ethyl formate; Anisyl acetate; Anisyl formate; Anethole; alpha-Thujone; alpha-Terpinyl propionate; alpha-Terpinyl acetate; alpha-Santalene; alpha-Muurolene; alpha-methyl-cyclohexanepropanol; alpha-methyl cinnamaldehyde; alpha-Cadinene; alpha-Amorphene; 1-Phenyl-2-pentanol; 2,5-Dimethyl-4-methoxy-3(2H)-furanone; alpha,4-Dimethyl benzenepropanal; Allyl Phenethyl ether; Allyl heptanoate; 3-hydroxybutan-2-one; Acetoanisole; 6-Methylquinoline; 6,8-Diethyl-2-nonanol; 5-Methyl-3-heptanone; 4-Vinylphenol; 4-Pentenophenone; 4-Ethylguaiacol; 3-Nonylacrolein; 3-Methyl-1,2-cyclopentanedione; 3-Methoxy-3-Methyl Butanol ; 3-Hexenol; 3,7-dimethyl-2-methylene-6-octenal; 3,7-dimethyl-1-octanol; 2-Undecenenitrile; 2-Undecenal; 2-Phenylethyl acetate; 2-Phenethyl propionate; 2-Pentylcyclopentan-1-ol; 2-nonanone propylene glycol acetal; 2-Nonanol; 2-Methoxy-3-(1-methylpropyl)pyrazine; 2-isopropyl-N,2,3-trimethylbutyramide; 2-Isopropyl-5-methyl-2-hexenal; 2-Isopropyl-4-methylthiazole; 2-Hexylidene cyclopentanone; 2-Hexen-1-ol; 2-Butoxyethanol; 2,6-Nonadien-1-ol; 1,4-Cineole; 1,3,3-trimethyl-2-norbornanyl acetate; 1,1,2,3,3-Pentamethylindan; (Z)-3-hepten-1-yl acetate; (S)-(1R,5R)-4,6,6-trimethylbicyclo[3.1.1]hept-3-en-2-one; (R)-(-)-Linalool; (l)-Citronellal; (d)-Citronellal; (+)-Citronellol; (-)-Citronellol; (+)-alpha-Pinene; (+)-Carvone; (-)-alpha-Pinene; Methyl 2-methylbutyrate; Hexyl tiglate; 3-(3-

isopropylphenyl)butanal; alpha-acetoxystyrene; p-Cresyl isobutyrate; p-Cymene; Perillaldehyde; Perillyl acetate; Phenethyl formate; p-Isopropylphenylacetaldehyde; 1,2-dimethyl-3-(prop-1-en-2-yl)cyclopentan-1-ol; (2Z,5Z)-5,6,7-trimethylocta-2,5-dien-4-one; p-Propyl anisole; p-t-butyl phenyl acetaldehyde; p-tert-Amyl cyclohexanol; Racemic alpha-Pinene; Rhodinol; (Z)-6-ethylideneoctahydro-2H-5,8-methanochromene; Methyl 2,2-dimethyl-6-methylenecyclohexane-1-carboxylate; 1-(3,3-dimethylcyclohexyl)ethyl acetate; S)-(+)-Linalool; Sabinene; Sabinene hydrate; Sabinol; Propyl (S)-2-(tert-pentyloxy)propanoate; Selina-3,7(11)-diene; 1-oxaspiro(4,5)decan-2-one; (Z)-5-methylheptan-3-one oxime; 1-phenylethyl acetate; Tetrahydrogeranial; Tetrahydrojasmone; Tetrahydrolinalool; Tetrahydrolinalyl acetate; 2,6,10,10-tetramethyl-1-oxaspiro[4.5]dec-6-ene; Ethyl (1R,6S)-2,2,6-trimethylcyclohexane-1-carboxylate; Thymol; Thymol methyl ether; trans-2-Hexenol; trans-2-tert-Butylcyclohexanol; trans-Anethole; trans-Dihydrocarvone; trans-Geraniol; 2-mercapto-2-methylpentan-1-ol; Undecanal; (E)-4-methyldec-3-en-5-ol; Valencene; 2,2,5-trimethyl-5-pentylcyclopentan-1-one; (1R,5R)-4,6,6-trimethylbicyclo[3.1.1]hept-3-en-2-one; 1-methoxy-3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoindene; 2-(tert-butyl)cyclohexan-1-ol; 4-(tert-butyl)cyclohexyl acetate; cis-4-(tert-butyl)cyclohexyl acetate; (Z)-1-((2-methylallyl)oxy)hex-3-ene and mixtures thereof, preferably said composition comprises a malodor reduction material selected from the group consisting of 1,1-dimethoxynon-2-yne, para-Cymen-8-ol; 3-methoxy-7,7-dimethyl-10-methylenebicyclo[4.3.1]decane; Methoxycyclododecane; 4-(tert-pentyl)cyclohexan-1-one; 7-isopropyl-8,8-dimethyl-6,10-dioxaspiro[4.5]decane; Octyl acetate; octanal propylene glycol acetal; Octanal; Octanal dimethyl acetal; Myrcenol; Myrcenyl acetate; Ocimenol; Nonyl alcohol; Nonaldehyde; 2-methoxynaphthalene; Nerol; 1-ethyl-3-methoxytricyclo[2.2.1.02,6]heptane; Methyl (E)-non-2-enoate; Myrtenal; Methyl octine carbonate; Methyl octyl acetaldehyde; 6,6-dimethoxy-2,5,5-trimethylhex-2-ene; Methyl phenylethyl carbinol; Methyl nonyl acetaldehyde dimethyl acetal; Methyl nonyl ketone; Methyl nonyl acetaldehyde; Methyl isoeugenol; Methyl diphenyl ether; Methyl cinnamate; Methyl 2-octynoate; Methyl alpha-cyclogeranate; Methoxycitronellal; Octahydro-1H-4,7-methanoindene-1-carbaldehyde; Maceal; l-Limonene; (Z)-3-hexen-1-yl-2-cyclopenten-1-one; Linalyl isobutyrate; Linalool oxide (furanoid); 3-(4-methylcyclohex-3-en-1-yl)butanal; (E)-1-(1-methoxypropoxy)hex-3-ene; Leaf acetal; l-Carveol; Lauraldehyde; 2-propylheptanenitrile; 2-hexylcyclopentan-1-one; 2-methyl-4-phenyl-1,3-dioxolane; 2,6,9,10-tetramethyl-1-oxaspiro(4.5)deca-3,6-diene; Isopulegol; Isomenthone; 2-hexylcyclopent-2-en-1-one; Isomenthone; Isocyclocitral; Isobornyl propionate; Isobornyl isobutyrate; Isobornyl acetate; Irisnitrile; Hydrocinnamyl alcohol; Hydratropaldehyde dimethyl

acetal; 5-ethyl-4-hydroxy-2-methylfuran-3(2H)-one; Hexyl hexanoate; Hexenyl tiglate; 2-butyl-4,4,6-trimethyl-1,3-dioxane; Ethyl (1R,2R,3R,4R)-3-isopropylbicyclo[2.2.1]hept-5-ene-2-carboxylate; 3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl acetate; Gyrane; Ethyl 2-ethyl-6,6-dimethylcyclohex-2-ene-1-carboxylate; gamma-Terpinyl acetate; gamma-Terpineol; gamma-Muurolene; gamma-Himachalene; gamma-Cadinene; Furfuryl hexanoate; 2-methyldecanenitrile; Ethyl (3aR,4S,7R,7aR)-octahydro-3aH-4,7-methanoindene-3a-carboxylate; (E)-4,8-dimethyldeca-4,9-dienal; 2-heptylcyclopentan-1-one; 3-cyclohexene-1-carboxylic acid, 2,6,6-trimethyl-, methyl ester; Eugenol; Ethyl nonanoate; Ethyl hexyl ketone; Ethyl decanoate; Ethyl gamma-Safranate; (2-(1-ethoxyethoxy)ethyl)benzene; Dodecanal dimethyl acetal; d-Limonene; Diphenyloxide; Diphenylmethane; 2,6-dimethyloct-7-en-4-one; Octahydro-1H-4,7-methanoinden-5-yl acetate; Dihydrocarveol acetate; Dihydrocarveol; Dihydro Linalool; Dibutyl sulfide; delta-Elemene; (Z)-1-((1R,2S)-2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one; delta-3-Carene; Decyl propionate; Decanal diethyl acetal; Decahydro-beta-naphthol; 1-cyclohexylethyl (E)-but-2-enoate; Cumic alcohol; Citral propylene glycol acetal; Citral dimethyl acetal; cis-Ocimene; cis-Limonene oxide; cis-6-nonenol; cis-carveol; cis-4-Decen-1-al; cis-3-hexenyl-cis-3-hexenoate; cis-3-Hexenyl 2-methylbutyrate; cis-3-cis-6-nonadienol; Cinnamyl formate; Cinnamic alcohol; Cedryl methyl ether; Caprylnitrile; Caprylic alcohol; Caprylic acid; Capraldehyde; 3-(4-methoxyphenyl)-2-methylpropanal; Camphorquinone; Camphene; Bornyl isobutyrate; Bornyl acetate; 2-ethoxy-2,6,6-trimethyl-9-methylenebicyclo[3.3.1]nonane; Bigarade oxide; beta-Terpinyl acetate; beta-Terpineol; beta-Sesquiphellandrene; beta-Selinene; beta-Pinene; beta-Patchoulline; (2,2-dimethoxyethyl)benzene; beta-Farnesene; beta-Copaene; beta-Cedrene; beta-Caryophyllene ; Benzyl-tert-butanol; Benzyl dimethyl carbinol; 2'-isopropyl-1,7,7-trimethylspiro[bicyclo[2.2.1]heptane-2,4'-[1,3]dioxane]; Methyl (E)-octa-4,7-dienoate; alpha-Thujone; alpha-Terpinyl propionate; alpha-Selinene; alpha-Santalene; alpha-Patchoulene; alpha-Muurolene; alpha-Limonene; alpha-Gurjunene; alpha-Fenchene; alpha-Cubebene; alpha-Cedrene epoxide; alpha-Cadinene; alpha-Bergamotene; alpha-Amorphene; 1-Phenyl-2-pentanol; alpha,4-Dimethyl benzenepropanal; Allyl 2-(isopentyloxy)acetate; Allo-aromadendrene; Aldehyde C-11; Acetate C9; Acetaldehyde phenylethyl propyl acetal; Acetaldehyde dipropyl acetal; Acetaldehyde benzyl 2-methoxyethyl acetal; 9-decenal; 7-epi-alpha-Selinene; 6-Isopropylquinoline; 6,6-dimethyl-2-norpinene-2-propionaldehyde; 5-Isopropenyl-2-methyl-2-vinyltetrahydrofuran; 4-Terpinenol; 4-Pentenophenone; 4-Carvomenthenol; 4,5,6,7-Tetrahydro-3,6-dimethylbenzofuran; 3-Nonylacrolein; 3-Hexenyl isovalerate; 3,6-Dimethyl-3-octanyl acetate; 3-(p-Isopropylphenyl)propionaldehyde; 2-Undecenenitrile; 2-Undecenal; 2-trans-6-trans-

Nonadienal; 2-Phenoxyethanol; 2-Nonen-1-al; 2-Nonanol; 2-Nonanone; 2-Hexylidene cyclopentanone; 2-Heptyl tetrahydrofuran; 2-Decenal; 2,6-Nonadienal; 2,6-Nonadien-1-ol; 2,6-dimethyl-octanal; 1-Decanol; 1-Hepten-1-ol, 1-acetate; 10-Undecenal; 1,8-Thiocineol; 1,3,5-undecatriene; 1,2-Dihydrolinalool; 1,3,3-trimethyl-2-norbornanyl acetate; 1,1,2,3,3-Pentamethylindan; (Z)-3-Dodecenal; (+)-Dihydrocarveol; Menthone; 3-(3-isopropylphenyl)butanal; 7-epi-sesquithujene; 3-Methylphenethyl alcohol; 3,6-Nonadien-1-ol; p-Cresyl isobutyrate; Perillaldehyde; Perillyl acetate; (2-isopropoxyethyl)benzene; Phenethyl alcohol; Phenylacetaldehyde ethyleneglycol acetal; 2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)acetaldehyde; 6,6-dimethyl-2-methylenebicyclo[3.1.1]heptan-3-ol; p-Menth-3-en-1-ol; Propylene glycol; 2,4-dimethyl-4-phenyltetrahydrofuran; (Z)-6-ethylideneoctahydro-2H-5,8-methanochromene; Methyl 2,2-dimethyl-6-methylenecyclohexane-1-carboxylate; 4-methyl-2-phenyl-3,6-dihydro-2H-pyran; Sabinol; Safrole; Selina-3,7(11)-diene; Spirodecane; 2-(heptan-3-yl)-1,3-dioxolane; (Z)-dodec-4-enal; Tetrahydrojasmone; 2,6,10,10-tetramethyl-1-oxaspiro[4.5]dec-6-ene; Thujopsene; Thymol methyl ether; trans-2,cis-6-Nonadienal; trans-2-Decenal; trans-2-Nonen-1-al; trans-3, cis-6-nonadienol; trans-4-Decen-1-al; trans-beta-ocimene; trans-beta-Ocimene; trans-Geraniol; Undecanal; (E)-4-methyldec-3-en-5-ol; Valencene; 1-methoxy-3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoindene; (Z)-hex-3-en-1-yl isobutyrate; Decahydro-3H-spiro[furan-2,5'-[4,7]methanoindene]; (2Z,6E)-nona-2,6-dienenitrile; 1',1',5',5'-tetramethylhexahydro-2'H,5'H-spiro[[1,3]dioxolane-2,8'-[2,4a]methanonaphthalene]; (2'S,4a'S,8a'S)-1',1',5',5'-tetramethylhexahydro-2'H,5'H-spiro[[1,3]dioxolane-2,8'-[2,4a]methanonaphthalene], Cedryl methyl ether; beta-Copaene; 2'-isopropyl-1,7,7-trimethylspiro[bicyclo[2.2.1]heptane-2,4'-[1,3]dioxane]; alpha-Cedrene epoxided, and Methoxycyclododecane; 1-ethoxy-4-(tert-pentyl)cyclohexane; (3Z)-1-(2-buten-1-yloxy)-3-hexene; 4-(2-methoxypropan-2-yl)-1-methylcyclohex-1-ene; 4-(tert-pentyl)cyclohexan-1-one; O-Methyl linalool; 7-isopropyl-8,8-dimethyl-6,10-dioxaspiro[4.5]decane; Octanal, 3,7-dimethyl-; Octanal dimethyl acetal; Myrcenol; 3,3-Dimethyl-5(2,2,3-Trimethyl-3-Cyclopenten-1yl)-4-Penten-2-ol; n-Hexyl 2-butenoate; Neryl Formate; Nerol; 1-ethyl-3-methoxytricyclo[2.2.1.02,6]heptane; Myrtenal; Myroxide; Muguol; (Z)-hex-3-en-1-yl cyclopropanecarboxylate; Methyl phenyl carbinyl propionate; Methyl phenylacetate; Methyl phenylethyl carbinol; Methyl isoeugenol; Methyl geraniate; Methyl diphenyl ether; Methyl cyclopentylideneacetate; Methoxymelonal; Methoxycitronellal; ((1s,4s)-4-isopropylcyclohexyl)methanol; Maceal; (Z)-3-hexen-1-yl-2-cyclopenten-1-one; Linalyl propionate; Linalyl formate; Linalyl acetate; Linalool; 3-(4-methylcyclohex-3-en-1-yl)butanal;

(Z)-hex-3-en-1-yl methyl carbonate; 4-methylquinoline; (E)-1-(1-methoxypropoxy)hex-3-ene; L-Carvone; Lauraldehyde; 2-hexylcyclopentan-1-one; 2,6,9,10-tetramethyl-1-oxaspiro(4.5)deca-3,6-diene; Isopropylvinylcarbinol; Isopropyl 2-methylbutyrate; Isopentyrate; Isononyl acetate; Isononanol; Isobornyl propionate; Isobornyl acetate; Isoborneol; Isoamyl octanoate; Isoamyl isobutyrate; Hydrocinnamyl alcohol; Hydratropaldehyde dimethyl acetal; Hydratopic alcohol; Hexyl propanoate; Hexyl butyrate; Hexyl 2-methylbutanoate; Heptyl alcohol; Heptyl acetate; Heptaldehyde; Heliotropin; Gyrane; Geranyl nitrile; Geranyl formate; Geranial; gamma-Terpinene; gamma-Muurolene; gamma-Himachalene; gamma-Cadinene; Furfuryl hexanoate; Ethyl (3aR,4S,7R,7aR)-octahydro-3aH-4,7-methanoindene-3a-carboxylate; 2-(sec-butyl)cyclohexan-1-one; Florazon (ortho-isomer); (E)-4,8-dimethyldeca-4,9-dienal; 2-heptylcyclopentan-1-one; (Z)-5-methylhept-2-en-4-one; Fenchyl alcohol; Eugenol; Eucalyptol; Ethyl octanoate; Ethyl 2-(cyclohexyl)propionate; d-p-8(9)-Menthen-2-one; Doremox; Diphenyloxide; Diphenylmethane; Dihydromyrcenol; Dihydrojasmone; Dihydroisophorone; Dihydrocarvone; Dihydrocarveol acetate; Dihydro-alpha-terpinyl acetate; Dihydro-alpha-ionone; delta-Elemene; 2-pentylcyclopentan-1-one; Decahydro-beta-naphthol; Methyl (1s,4s)-1,4-dimethylcyclohexane-1-carboxylate; Cyclohexylethyl acetate; Cumic alcohol; Creosol; Cosmene; 4-cyclohexyl-2-methylbutan-2-ol; Citronellyl nitrile; Citronellyl formate; Citronellol; Citronellal; Citral; cis-Pinane; cis-6-nonenol; cis-3-Hexenyl valerate; cis-3-Hexenyl tiglate; cis-3-Hexenyl propionate; cis-3-Hexenyl butyrate; cis-3-Hexen-1-ol; cis-3-Hexenyl 2-methylbutyrate; cis-2-Hexenol; Cinnamyl nitrile; Cinnamic aldehyde; Cinnamic alcohol; Cinamalva; Chloroxylenol; Carvacrol; Carvone; Carbitol; Caproyl alcohol; Cantryl; Camphor; Camphene; Bornyl acetate; Borneol; Bigarade oxide; beta-Pinene epoxide; beta-Phellandrene; beta-Caryophyllene ; Benzylacetone; Benzyl isovalerate; Benzyl isobutyrate; Benzyl butyrate; Benzyl alcohol; Aphermate; Anisyl acetate; Anisyl formate; Anethole; alpha-Thujone; alpha-Terpinyl propionate; alpha-Terpinyl acetate; alpha-Santalene; alpha-Muurolene; alpha-methyl-cyclohexanepropanol; alpha-methyl cinnamaldehyde; alpha-Cadinene; alpha-Amorphene; 1-Phenyl-2-pentanol; 2,5-Dimethyl-4-methoxy-3(2H)-furanone; alpha,4-Dimethyl benzenepropanal; Allyl Phenethyl ether; Allyl heptanoate; Acetoin; Acetoanisole; 6-Methylquinoline; 6,8-Diethyl-2-nonanol; 5-Methyl-3-heptanone; 4-Vinylphenol; 4-Pentenophenone; 4-Ethylguaiacol; 3-Nonylacrolein; 3-Methyl-1,2-cyclopentanedione; 3-Methoxy-3-Methyl Butanol ; 3-Hexenol; 3,7-dimethyl-2-methylene-6-octenal; 3,7-dimethyl-1-octanol; 2-Undecenenitrile; 2-Undecenal; 2-Phenylethyl acetate; 2-Phenethyl propionate; 2-Pentylcyclopentan-1-ol; 2-nonanone propylene glycol acetal; 2-Nonanol; 2-Methoxy-3-(1-methylpropyl)pyrazine; 2-isopropyl-N,2,3-trimethylbutyramide; 2-

Isopropyl-5-methyl-2-hexenal; 2-Isopropyl-4-methylthiazole; 2-Hexylidene cyclopentanone; 2-Hexen-1-ol; 2-Butoxyethanol; 2,6-Nonadien-1-ol; 1,4-Cineole; 1,3,3-trimethyl-2-norbornanyl acetate; 1,1,2,3,3-Pentamethylindan; (Z)-3-hepten-1-yl acetate; (S)-Verbenone; (R)-(-)-Linalool; (l)-Citronellal; (d)-Citronellal; (+)-Citronellol; (-)-Citronellol; (+)-alpha-Pinene; (+)-Carvone; (-)-alpha-Pinene; Methyl 2-methylbutyrate; Hexyl tiglate; 3-(3-isopropylphenyl)butanal; alpha-acetoxystyrene; p-Cresyl isobutyrate; p-Cymene; Perillaldehyde; Perillyl acetate; Phenethyl formate; p-Isopropylphenylacetaldehyde; 1,2-dimethyl-3-(prop-1-en-2-yl)cyclopentan-1-ol; (2Z,5Z)-5,6,7-trimethylocta-2,5-dien-4-one; p-Propyl anisole; p-t-butyl phenyl acetaldehyde; p-tert-Amyl cyclohexanol; Racemic alpha-Pinene; Rhodinol; (Z)-6-ethylideneoctahydro-2H-5,8-methanochromene; Methyl 2,2-dimethyl-6-methylenecyclohexane-1-carboxylate; 1-(3,3-dimethylcyclohexyl)ethyl acetate; S)-(+)-Linalool; Sabinene; Sabinene hydrate; Sabinol; Sclareolate; Selina-3,7(11)-diene; 1-oxaspiro(4,5)decan-2-one; (Z)-5-methylheptan-3-one oxime; 1-phenylethyl acetate; Tetrahydrogeranial; Tetrahydrojasmone; Tetrahydrolinalool; Tetrahydrolinalyl acetate; 2,6,10,10-tetramethyl-1-oxaspiro[4.5]dec-6-ene; Ethyl (1R,6S)-2,2,6-trimethylcyclohexane-1-carboxylate; Thymol; Thymol methyl ether; trans-2-Hexenol; trans-2-tert-Butylcyclohexanol; trans-Anethole; trans-Dihydrocarvone; trans-Geraniol; 2-mercapto-2-methylpentan-1-ol; Undecanal; (E)-4-methyldec-3-en-5-ol; Valencene; 2,2,5-trimethyl-5-pentylcyclopentan-1-one; Verbenone; 1-methoxy-3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoindene; 2-(tert-butyl)cyclohexan-1-ol; 4-(tert-butyl)cyclohexyl acetate; cis-4-(tert-butyl)cyclohexyl acetate; (Z)-1-((2-methylallyl)oxy)hex-3-eneand mixtures thereof, more preferably said composition comprises a malodor reduction material selected from the group consisting of para-Cymen-8-ol; Octyl acetate; octanal propylene glycol acetal; Octanal; Octanal dimethyl acetal; Nonaldehyde; 1-ethyl-3-methoxytricyclo[2.2.1.02,6]heptane; Methyl (E)-non-2-enoate; Myrtenal; Methyl octyl acetaldehyde; 6,6-dimethoxy-2,5,5-trimethylhex-2-ene; Methyl nonyl acetaldehyde; Methyl 2-octynoate; Methyl alpha-cyclogeranate; l-Limonene; (E)-1-(1-methoxypropoxy)hex-3-ene; Leaf acetal; Isomenthone; Isomenthone; Isocyclocitral; Irisnitrile; Hydratropaldehyde dimethyl acetal; 2-butyl-4,4,6-trimethyl-1,3-dioxane; Gyrane; 3-cyclohexene-1-carboxylic acid, 2,6,6-trimethyl-, methyl ester; Ethyl nonanoate; Ethyl hexyl ketone; d-Limonene; 2,6-dimethyloct-7-en-4-one; Dibutyl sulfide; delta-3-Carene; cis-Ocimene; cis-Limonene oxide; cis-4-Decen-1-al; Caprylnitrile; Caprylic alcohol; Capraldehyde; Camphene; Bigarade oxide; beta-Pinene; (2,2-dimethoxyethyl)benzene; Methyl (E)-octa-4,7-dienoate; alpha-Thujone; alpha-Limonene; alpha-Fenchene; Acetate C9; Acetaldehyde dipropyl acetal; 9-decenal; 5-Isopropenyl-2-methyl-2-vinyltetrahydrofuran; 4,5,6,7-Tetrahydro-3,6-

dimethylbenzofuran; 3,6-Dimethyl-3-octanyl acetate; 2-trans-6-trans-Nonadienal; 2-Nonen-1-al; 2-Nonanol; 2-Nonanone; 2-Heptyl tetrahydrofuran; 2,6-Nonadienal; 2,6-dimethyl-octanal; 1-Hepten-1-ol, 1-acetate; 1,8-Thiocineol; 1,3,5-undecatriene; 1,3,3-trimethyl-2-norbornanyl acetate; Menthone; (2-isopropoxyethyl)benzene; 2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)acetaldehyde; Propylene glycol; Methyl 2,2-dimethyl-6-methylenecyclohexane-1-carboxylate; Spirodecane; 2-(heptan-3-yl)-1,3-dioxolane; trans-2,cis-6-Nonadienal; trans-2-Nonen-1-al; trans-4-Decen-1-al; trans-beta-ocimene; trans-beta-Ocimene; Undecanal; 1-methoxy-3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoindene; (Z)-hex-3-en-1-yl isobutyrate, 1-ethoxy-4-(tert-pentyl)cyclohexane; (3Z)-1-(2-buten-1-yloxy)-3-hexene; 4-(2-methoxypropan-2-yl)-1-methylcyclohex-1-ene; O-Methyl linalool; Octanal, 3,7-dimethyl-; Octanal dimethyl acetal; 3,3-Dimethyl-5(2,2,3-Trimethyl-3-Cyclopenten-1yl)-4-Penten-2-ol; n-Hexyl 2-butenoate; 1-ethyl-3-methoxytricyclo[2.2.1.02,6]heptane; Myrtenal; Myroxide; Methyl phenylacetate; Methyl cyclopentylideneacetate; Methyl chavicol; Methoxymelonal; Linalyl acetate; (Z)-hex-3-en-1-yl methyl carbonate; (E)-1-(1-methoxypropoxy)hex-3-ene; Isopropylvinylcarbinol; Isopropyl 2-methylbutyrate; Isopentyrate; Isononyl acetate; Isoamyl isobutyrate; Hydratropaldehyde dimethyl acetal; Hexyl propanoate; Hexyl butyrate; Hexyl 2-methylbutanoate; Heptyl alcohol; Heptyl acetate; Heptaldehyde; Gyrane; gamma-Terpinene; 2-(sec-butyl)cyclohexan-1-one; (Z)-5-methylhept-2-en-4-one; Eucalyptol; Ethyl octanoate; Ethyl 2-(cyclohexyl)propionate; d-p-8(9)-Menthen-2-one; Dihydromyrcenol; Dihydroisophorone; Dihydrocarvone; Dihydro-alpha-terpinyl acetate; 2-pentylcyclopentan-1-one; Methyl (1s,4s)-1,4-dimethylcyclohexane-1-carboxylate; Cyclohexylethyl acetate; Cosmene; Citronellal; cis-Pinane; cis-3-Hexenyl propionate; cis-3-Hexenyl butyrate; cis-3-Hexen-1-ol; cis-2-Hexenol; Caproyl alcohol; Camphor; Camphene; Bigarade oxide; beta-Pinene epoxide; beta-Phellandrene; Benzyl alcohol; alpha-Thujone; 2,5-Dimethyl-4-methoxy-3(2H)-furanone; Allyl Phenethyl ether; Allyl heptanoate; Acetoin; 5-Methyl-3-heptanone; 4-Vinylphenol; 3-Methyl-1,2-cyclopentanedione; 3-Methoxy-3-Methyl Butanol ; 3-Hexenol; 2-nonanone propylene glycol acetal; 2-Nonanol; 2-Isopropyl-5-methyl-2-hexenal; 2-Isopropyl-4-methylthiazole; 2-Hexen-1-ol; 2-Butoxyethanol; 1,4-Cineole; 1,3,3-trimethyl-2-norbornanyl acetate; (Z)-3-hepten-1-yl acetate; (l)-Citronellal; (d)-Citronellal; (+)-alpha-Pinene; (-)-alpha-Pinene; Methyl 2-methylbutyrate; p-Cymene; p-Propyl anisole; Racemic alpha-Pinene; Methyl 2,2-dimethyl-6-methylenecyclohexane-1-carboxylate; 1-(3,3-dimethylcyclohexyl)ethyl acetate; Sabinene; 1-phenylethyl acetate; Tetrahydrogeranial; Tetrahydrolinalool; Tetrahydrolinalyl acetate; trans-2-Hexenol; trans-Dihydrocarvone; 2-mercapto-2-methylpentan-1-ol; Undecanal; 1-methoxy-3a,4,5,6,7,7a-hexahydro-1H-4,7-

methanoindene; 4-(tert-butyl)cyclohexyl acetate; cis-4-(tert-butyl)cyclohexyl acetate; (Z)-1-((2-methylallyl)oxy)hex-3-ene and mixtures thereof.

4. The composition according to Claim 1 comprising a malodor reduction material selected from the group consisting of 1,1-dimethoxynon-2-yne; 3-methoxy-7,7-dimethyl-10-methylenebicyclo[4.3.1]decane; Methoxycyclododecane; 7-isopropyl-8,8-dimethyl-6,10-dioxaspiro[4.5]decane; Octyl acetate; octanal propylene glycol acetal; Octanal dimethyl acetal; Myrcene; Myrcenol; Myrcenyl acetate; Ocimenol; Nonyl alcohol; 2-methoxynaphthalene; 1-ethyl-3-methoxytricyclo[2.2.1.02,6]heptane; Methyl (E)-non-2-enoate; Myrtenal; Methyl octine carbonate; Methyl octyl acetaldehyde; Methyl phenylethyl carbinol; Methyl nonyl acetaldehyde dimethyl acetal; Methyl nonyl ketone; Methyl nonyl acetaldehyde; Methyl isoeugenol; Methyl eugenol; Methyl diphenyl ether; Methyl cinnamate; Methyl chavicol; Methyl 2-octynoate; Methoxycitronellal; Octahydro-1H-4,7-methanoindene-1-carbaldehyde; Maceal; l-Limonene; 3-(4-methylcyclohex-3-en-1-yl)butanal; (E)-1-(1-methoxypropoxy)hex-3-ene; Leaf acetal; Lauraldehyde; 2-propylheptanenitrile; 2-hexylcyclopentan-1-one; 2-methyl-4-phenyl-1,3-dioxolane; 2,6,9,10-tetramethyl-1-oxaspiro(4.5)deca-3,6-diene; Isopulegol; Isomenthone; 2-hexylcyclopent-2-en-1-one; Isomenthone; Isocyclocitral; Isobornyl propionate; Isobornyl isobutyrate; Isobornyl acetate; Irisnitrile; Hydrocinnamyl alcohol; Hydratropaldehyde dimethyl acetal; 5-ethyl-4-hydroxy-2-methylfuran-3(2H)-one; Hexyl hexanoate; Hexenyl tiglate; 2-butyl-4,4,6-trimethyl-1,3-dioxane; Ethyl (1R,2R,3R,4R)-3-isopropylbicyclo[2.2.1]hept-5-ene-2-carboxylate; 3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl acetate; Gyrane; Ethyl 2-ethyl-6,6-dimethylcyclohex-2-ene-1-carboxylate; gamma-Muurolene; gamma-Himachalene; gamma-Cadinene; Furfuryl hexanoate; 2-methyldecanenitrile; Ethyl (3aR,4S,7R,7aR)-octahydro-3aH-4,7-methanoindene-3a-carboxylate; (E)-4,8-dimethyldeca-4,9-dienal; 2-heptylcyclopentan-1-one; Ethyl nonanoate; Ethyl hexyl ketone; Ethyl decanoate; (2-(1-ethoxyethoxy)ethyl)benzene; Dodecanal dimethyl acetal; d-Limonene; Diphenyloxide; Diphenylmethane; 2,6-dimethyloct-7-en-4-one; Octahydro-1H-4,7-methanoinden-5-yl acetate; Dihydrocarveol acetate; Dihydrocarveol; Dihydro Linalool; Dibutyl sulfide; delta-Elemene; delta-3-Carene; Decyl propionate; Decanal diethyl acetal; Decahydro-beta-naphthol; 1-cyclohexylethyl (E)-but-2-enoate; Citral propylene glycol acetal; Citral dimethyl acetal; cis-Limonene oxide; cis-6-nonenol; cis-3-hexenyl-cis-3-hexenoate; cis-3-Hexenyl 2-methylbutyrate; cis-3, cis-6-nonadienol; Cinnamyl formate; Cinnamic alcohol; Cedryl methyl ether; Caprylnitrile; Caprylic alcohol; Caprylic acid; Camphorquinone; Camphene; Bornyl isobutyrate; Bornyl acetate; 2-ethoxy-2,6,6-trimethyl-9-methylenebicyclo[3.3.1]nonane; Bigarade oxide; beta-Sesquiphellandrene; beta-

Selinene; beta-Pinene; beta-Patchoulline; beta-Farnesene; beta-Copaene; beta-Cedrene; beta-Caryophyllene ; Benzyl-tert-butanol; Benzyl dimethyl carbinol; 2'-isopropyl-1,7,7-trimethylspiro[bicyclo[2.2.1]heptane-2,4'-[1,3]dioxane]; Methyl (E)-octa-4,7-dienoate; alpha-Thujone; alpha-Terpinyl propionate; alpha-Selinene; alpha-Santalene; alpha-Patchoulene; alpha-Muurolene; alpha-Limonene; alpha-Gurjunene; alpha-Fenchene; alpha-Cubebene; alpha-Cedrene epoxide; alpha-Cadinene; alpha-Bergamotene; alpha-Amorphene; 1-Phenyl-2-pentanol; Allyl 2-(isopentyloxy)acetate; Allo-aromadendrene; Acetate C9; Acetaldehyde phenylethyl propyl acetal; Acetaldehyde dipropyl acetal; Acetaldehyde benzyl 2-methoxyethyl acetal; 7-epi-alpha-Selinene; 6-Isopropylquinoline; 6,6-dimethyl-2-norpinene-2-propionaldehyde; 4-Pentenophenone; 4,5,6,7-Tetrahydro-3,6-dimethylbenzofuran; 3-Nonylacrolein; 3-Hexenyl isovalerate; 3,6-Dimethyl-3-octanyl acetate; 3-(p-Isopropylphenyl)propionaldehyde; 2-Undecenenitrile; 2-Phenoxyethanol; 2-Nonanol; 2-Nonanone; 2-Hexylidene cyclopentanone; 2-Heptyl tetrahydrofuran; 2,6-Nonadien-1-ol; 2,6-dimethyl-octanal; 1-Decanol; 1-Hepten-1-ol, 1-acetate; 1,8-Thiocineol; 1,3,5-undecatriene; 1,2-Dihydrolinalool; 1,3,3-trimethyl-2-norbornanyl acetate; (Z)-3-Dodecenal; (+)-Dihydrocarveol; Menthone; 7-epi-sesquithujene; 3-Methylphenethyl alcohol; 3,6-Nonadien-1-ol; (2-isopropoxyethyl)benzene; Phenethyl alcohol; Phenylacetaldehyde ethyleneglycol acetal; 2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)acetaldehyde; 6,6-dimethyl-2-methylenebicyclo[3.1.1]heptan-3-ol; Propylene glycol; 2,4-dimethyl-4-phenyltetrahydrofuran; (Z)-6-ethylideneoctahydro-2H-5,8-methanochromene; 4-methyl-2-phenyl-3,6-dihydro-2H-pyran; Sabinol; Safrole; Selina-3,7(11)-diene; Spirodecane; 2-(heptan-3-yl)-1,3-dioxolane; (Z)-dodec-4-enal; Tetrahydrojasmone; 2,6,10,10-tetramethyl-1-oxaspiro[4.5]dec-6-ene; Thujopsene; trans-3, cis-6-nonadienol; (E)-4-methyldec-3-en-5-ol; Valencene; 1-methoxy-3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoindene; (Z)-hex-3-en-1-yl isobutyrate; Decahydro-3H-spiro[furan-2,5'-[4,7]methanoindene]; (2Z,6E)-nona-2,6-dienenitrile; 1',1',5',5'-tetramethylhexahydro-2'H,5'H-spiro[[1,3]dioxolane-2,8'-[2,4a]methanonaphthalene]; 1',1',5',5'-tetramethylhexahydro-2'H,5'H-spiro[[1,3]dioxolane-2,8'-[2,4a]methanonaphthalene] K; Methoxycyclododecane; 1-ethoxy-4-(tert-pentyl)cyclohexane; (3Z)-1-(2-buten-1-yloxy)-3-hexene; 4-(tert-pentyl)cyclohexan-1-one; 7-isopropyl-8,8-dimethyl-6,10-dioxaspiro[4.5]decane; Octanal dimethyl acetal; Myrcenol; 3,3-Dimethyl-5(2,2,3-Trimethyl-3-Cyclopenten-1yl)-4-Penten-2-ol; n-Hexyl 2-butenoate; Neryl Formate; 1-ethyl-3-methoxytricyclo[2.2.1.02,6]heptane; Myrtenal; (E)-3,7-dimethylocta-4,6-dien-3-ol; (Z)-hex-3-en-1-yl cyclopropanecarboxylate; Methyl phenylacetate; Methyl phenylethyl carbinol; Methyl isoeugenol; Methyl eugenol; Methyl diphenyl ether; Methyl cyclopentylideneacetate; Methyl chavicol; Methoxycitronellal; ((1s,4s)-4-

isopropylcyclohexyl)methanol; Maceal; Linalyl propionate; Linalyl formate; Linalool; 3-(4-methylcyclohex-3-en-1-yl)butanal; (Z)-hex-3-en-1-yl methyl carbonate; 4-methylquinoline; (E)-1-(1-methoxypropoxy)hex-3-ene; Lauraldehyde; 2-hexylcyclopentan-1-one; 2,6,9,10-tetramethyl-1-oxaspiro(4.5)deca-3,6-diene; Isopropyl 2-methylbutyrate; Isopentyrate; Isononyl acetate; Isononanol; Isobornyl propionate; Isobornyl acetate; Isoborneol; Isoamyl octanoate; Isoamyl isobutyrate; Hydrocinnamyl alcohol; Hydratropaldehyde dimethyl acetal; Hydratopic alcohol; Hexyl propanoate; Hexyl butyrate; Hexyl 2-methylbutanoate; Heptyl alcohol; Heptyl acetate; Gyrane; Geranyl nitrile; Geranyl formate; gamma-Terpinene; gamma-Muurolene; gamma-Himachalene; gamma-Cadinene; Furfuryl hexanoate; Ethyl (3aR,4S,7R,7aR)-octahydro-3aH-4,7-methanoindene-3a-carboxylate; 2-(sec-butyl)cyclohexan-1-one; (E)-4,8-dimethyldeca-4,9-dienal; 2-heptylcyclopentan-1-one; 2-(tert-butyl)cyclohexyl ethyl carbonate; Eucalyptol; Ethyl octanoate; Ethyl 2-(cyclohexyl)propionate; 4-methyl-2-phenyltetrahydro-2H-pyran; Diphenyloxide; Diphenylmethane; Dihydromyrcenol; Dihydrojasmone; Dihydroisophorone; Dihydrocarveol acetate; Dihydro-alpha-terpinyl acetate; delta-Elemene; 2-pentylcyclopentan-1-one; Decahydro-beta-naphthol; Methyl (1s,4s)-1,4-dimethylcyclohexane-1-carboxylate; Cyclohexylethyl acetate; Cosmene; 4-cyclohexyl-2-methylbutan-2-ol; Citronellyl nitrile; Citronellyl formate; cis-Pinane; cis-6-nonenol; cis-3-Hexenyl valerate; cis-3-Hexenyl tiglate; cis-3-Hexenyl propionate; cis-3-Hexenyl butyrate; cis-3-Hexen-1-ol; cis-3-Hexenyl 2-methylbutyrate; cis-2-Hexenol; Cinnamyl nitrile; Carbitol; Caproyl alcohol; Camphor; Camphene; Bornyl acetate; Borneol; Bigarade oxide; beta-Pinene epoxide; beta-Phellandrene; beta-Caryophyllene ; Benzylacetone; Benzyl isovalerate; Benzyl butyrate; Benzyl alcohol; 1-(3,3-dimethylcyclohexyl)ethyl formate; Anisyl acetate; Anisyl formate; Anethole; alpha-Thujone; alpha-Terpinyl propionate; alpha-Santalene; alpha-Muurolene; alpha-methyl-cyclohexanepropanol; Allyl Phenethyl ether; Allyl heptanoate; 3-hydroxybutan-2-one; Acetoanisole; 6-Methylquinoline; 6,8-Diethyl-2-nonanol; 5-Methyl-3-heptanone; 4-Pentenophenone; 4-Ethylguaiacol; 3-Nonylacrolein; 3-Methyl-1,2-cyclopentanedione; 3-Hexenol; 3,7-dimethyl-2-methylene-6-octenal; 3,7-dimethyl-1-octanol; 2-Undecenenitrile; 2-Phenylethyl acetate; 2-Phenethyl propionate; 2-Pentylcyclopentan-1-ol; 2-nonanone propylene glycol acetal; 2-Nonanol; 2-Methoxy-3-(1-methylpropyl)pyrazine; 2-isopropyl-N,2,3-trimethylbutyramide; 2-Isopropyl-5-methyl-2-hexenal; 2-Hexylidene cyclopentanone; 2-Hexen-1-ol; 2-Butoxyethanol; 2,6-Nonadien-1-ol; 1,3,3-trimethyl-2-norbornanyl acetate; (Z)-3-hepten-1-yl acetate; (S)-(1R,5R)-4,6,6-trimethylbicyclo[3.1.1]hept-3-en-2-one; (R)-(-)-Linalool; (+)-alpha-Pinene; (-)-alpha-Pinene; Methyl 2-methylbutyrate; Hexyl tiglate; alpha-acetoxystyrene; p-

Propyl anisole; p-tert-Amyl cyclohexanol; Racemic alpha-Pinene; (Z)-6-ethylideneoctahydro-2H-5,8-methanochromene; S)-(+)-Linalool; Sabinene; Sabinene hydrate; Sabinol; Propyl (S)-2-(tert-pentyloxy)propanoate; Selina-3,7(11)-diene; (Z)-5-methylheptan-3-one oxime; 1-phenylethyl acetate; Tetrahydrojasmone; Tetrahydrolinalool; Tetrahydrolinalyl acetate; 2,6,10,10-tetramethyl-1-oxaspiro[4.5]dec-6-ene; Ethyl (1R,6S)-2,2,6-trimethylcyclohexane-1-carboxylate; trans-2-Hexenol; trans-Anethole; 2-mercapto-2-methylpentan-1-ol; 4-(tert-butyl)cyclohexyl acetate; cis-4-(tert-butyl)cyclohexyl acetate; (Z)-1-((2-methylallyl)oxy)hex-3-ene and mixtures thereof

5. The composition according to Claim 1 comprising a malodor reduction material selected from the group consisting of 2-ethylhexyl (Z)-3-(4-methoxyphenyl)acrylate; 2,4-dimethyl-2-(5,5,8,8-tetramethyl-5,6,7,8-tetrahydronaphthalen-2-yl)-1,3-dioxolane; 1,1-dimethoxynon-2-yne; 3-methoxy-7,7-dimethyl-10-methylenebicyclo[4.3.1]decane; Methoxycyclododecane; 1,1-dimethoxycyclododecane; (Z)-tridec-2-enenitrile; (2-hydroxy-4-methoxyphenyl)(phenyl)methanone; Oxyoctaline formate; 1,8-dioxacycloheptadecan-9-one; 4-(tert-pentyl)cyclohexan-1-one; o-Phenyl anisol; 3a,5,6,7,8,8b-hexahydro-2,2,6,6,7,8,8-heptamethyl-4H-indeno(4,5-d)-1,3-dioxole; 7-isopropyl-8,8-dimethyl-6,10-dioxaspiro[4.5]decane; Octyl 2-furoate; Octyl acetate; octanal propylene glycol acetal; Octanal; Octanal dimethyl acetal; Myrcene; Myrcenyl acetate; Myristaldehyde; Myristyl nitrile; 2,2,6,8-tetramethyl-1,2,3,4,4a,5,8,8a-octahydronaphthalen-1-ol; Nopyl acetate; Nootkatone; Nonyl alcohol; Nonaldehyde; 12-methyl-14-tetradec-9-enolide; N-ethyl-p-menthane-3-carboxamide; 2-methoxynaphthalene; Nerolidol; Nerol; Methyl (E)-non-2-enoate; 10-isopropyl-2,7-dimethyl-1-oxaspiro[4.5]deca-3,6-diene; 2-(2-(4-methylcyclohex-3-en-1-yl)propyl)cyclopentan-1-one; (E)-4-(2,2,3,6-tetramethylcyclohexyl)but-3-en-2-one; Myraldyl acetate; Musk tibetine; 1,7-dioxacycloheptadecan-8-one; Musk ketone; Musk ambrette; 3-methylcyclopentadecan-1-one; (E)-3-methylcyclopentadec-4-en-1-one; 1-(4-isopropylcyclohexyl)ethan-1-ol; Milk Lactone; Methyl octine carbonate; Methyl octyl acetaldehyde; 6,6-dimethoxy-2,5,5-trimethylhex-2-ene; Methyl stearate; Methyl nonyl acetaldehyde dimethyl acetal; Methyl nonyl ketone; Methyl nonyl acetaldehyde; Methyl myristate; Methyl linoleate; Methyl hexadecanoate; Methyl diphenyl ether; Methyl chavicol; Methyl beta-naphthyl ketone; Methyl 2-octynoate; Methyl alpha-cyclogeranate; Menthone 1,2-glycerol ketal (racemic); 3-(3-(tert-butyl)phenyl)-2-methylpropanal; (E)-4-(4,8-dimethylnona-3,7-dien-1-yl)pyridine; (E)-trideca-3,12-dienenitrile; 2,2-dimethyl-3-(m-tolyl)propan-1-ol; Maceal; l-Limonene; Linalyl octanoate; Linalyl isobutyrate; Linalyl benzoate; Linalyl anthranilate; (2Z,6E)-3,7-dimethylnona-2,6-dienenitrile; 3-(4-methylcyclohex-3-en-1-

yl)butanal; (2,5-dimethyl-1,3-dihydroinden-2-yl)methanol; 3-(4-(tert-butyl)phenyl)-2-methylpropanal; Lauryl alcohol; Lauryl acetate; Lauric acid; 5-hexyl-5-methyldihydrofuran-2(3H)-one; Lauraldehyde; 4-(1-ethoxyvinyl)-3,3,5,5-tetramethylcyclohexan-1-one; Khusimol; 5-(sec-butyl)-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane; (1-methyl-2-((1,2,2-trimethylbicyclo[3.1.0]hexan-3-yl)methyl)cyclopropyl)methanol; 2-propylheptanenitrile; 2-hexylcyclopentan-1-one; 2,6,9,10-tetramethyl-1-oxaspiro(4.5)deca-3,6-diene; Isopropyl palmitate; Isopropyl myristate; Isopropyl dodecanoate; Iso3-methylcyclopentadecan-1-one; Isomenthone; 2-hexylcyclopent-2-en-1-one; Isomenthone; Isohexenyl cyclohexenyl carboxaldehyde; Isoeugenyl benzyl ether; 1-((2S,3S)-2,3,8,8-tetramethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-yl)ethan-1-one; Isobutyl quinoline; Isobornylcyclohexanol; Isobornyl propionate; Isobornyl isobutyrate; Isobornyl cyclohexanol; Isobornyl acetate; Isobergamate; Isoamyl undecylenate; Isoamyl laurate; Isoambrettolide; Irisnitrile; Indolene; Indol/Hydroxycitronellal Schiff base; 2-cyclododecylpropan-1-ol; Hydrocitronitrile; 2,3-dihydro-3,3-dimethyl-1H-indene-5-propanal; 3-(3,3-dimethyl-2,3-dihydro-1H-inden-5-yl)propanal; Hexyl octanoate; Hexyl hexanoate; Hexyl cinnamic aldehyde; Hexyl benzoate; Hexenyl tiglate; (E)-3,7-dimethylocta-2,6-dien-1-yl palmitate; Hexadecanolide; Ethyl (1R,2R,3R,4R)-3-isopropylbicyclo[2.2.1]hept-5-ene-2-carboxylate; 2-(1-(3,3-dimethylcyclohexyl)ethoxy)-2-methylpropyl propionate; (E)-oxacyclohexadec-13-en-2-one; Gyrane; Guaiol; 1-(2,6,6-trimethylcyclohex-2-en-1-yl)pentan-3-one; Ethyl 2-ethyl-6,6-dimethylcyclohex-2-ene-1-carboxylate; Germacrene B; Germacrene D; Geranyl phenylacetate; Geranyl phenyl acetate; Geranyl linalool; Geranyl cyclopentanone; gamma-Undecalactone (racemic); gamma-Terpinyl acetate; gamma-Terpineol; gamma-Muurolene; gamma-Ionone; gamma-Himachalene; gamma-Gurjunene; gamma-Eudesmol; gamma-Dodecalactone; gamma-Damascone; gamma-Cadinene; 1-(3,3-dimethylcyclohexyl)pent-4-en-1-one; 4,6,6,7,8,8-hexamethyl-1,3,4,6,7,8-hexahydrocyclopenta[g]isochromene; Furfuryl octanoate; Furfuryl hexanoate; Furfuryl heptanoate; 2-methyldecanenitrile; 8,8-dimethyl-3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl propionate; Ethyl (3aR,4S,7R,7aR)-octahydro-3aH-4,7-methanoindene-3a-carboxylate; (6-isopropyl-9-methyl-1,4-dioxaspiro[4.5]decan-2-yl)methanol; Undec-10-enenitrile; 3-(2-ethylphenyl)-2,2-dimethylpropanal; (E)-4,8-dimethyldeca-4,9-dienal; (E)-4-((3aR,4R,7R,7aR)-1,3a,4,6,7,7a-hexahydro-5H-4,7-methanoinden-5-ylidene)-3-methylbutan-2-ol; 8,8-dimethyl-3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl acetate; 3-(4-ethylphenyl)-2,2-dimethylpropanenitrile; 2-heptylcyclopentan-1-one; 1-ethoxyethoxy Cyclododecane; 3-cyclohexene-1-carboxylic acid, 2,6,6-trimethyl-, methyl ester; Farnesyl acetate; Farnesol;

Oxacyclohexadecan-2-one; 1-cyclopentadec-4-en-1-one; 1-cyclopentadec-4-en-1-one; Ethylene brassylate; Ethyl undecylenate; Ethyl palmitate; Ethyl nonanoate; Ethyl myristate; Ethyl linalool; Ethyl laurate; Ethyl decanoate; Ethyl gamma-Safranate; 6-ethyl-2,10,10-trimethyl-1-oxaspiro[4.5]deca-3,6-diene; Elemol; (E)-3-methyl-5-(2,2,3-trimethylcyclopent-3-en-1-yl)pent-4-en-2-ol; (E)-4-((3aS,7aS)-octahydro-5H-4,7-methanoinden-5-ylidene)butanal; Dodecanal dimethyl acetal; d-Limonene; 7,9-dimethylspiro[5.5]undecan-3-one; Diphenyloxide; Diphenylmethane; Dimethyl benzyl carbinyl butyrate; Octahydro-1H-4,7-methanoinden-5-yl acetate; Dihydrocarveol acetate; Dihydro Linalool; Dibutyl sulfide; Dibenzyl; delta-Undecalactone; delta-Elemene; delta-Guaiene; delta-Dodecalactone; delta-Cadinene; (Z)-1-((1R,2S)-2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one; delta-Amorphene; delta-3-Carene; Decylenic alcohol; Decyl propionate; Decanal diethyl acetal; 1-cyclohexylethyl (E)-but-2-enoate; 3-(4-isopropylphenyl)-2-methylpropanal; Cyclotetradecane ; Cyclopentadecanone; Cyclohexyl salicylate; 3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl butyrate; 8,8-dimethyl-1,2,3,4,5,6,7,8-octahydronaphthalene-2-carbaldehyde; 3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-5-yl isobutyrate; Curzerene; 2-(3-phenylpropyl)pyridine; Dodecanenitrile; (E)-cycloheptadec-9-en-1-one; Citryl acetate; Citrus Propanol; Citronitrile; Citral propylene glycol acetal; Citral dimethyl acetal; Citral diethyl acetal; cis-Ocimene; Cis-iso-ambrettolide; cis-4-Decen-1-al; cis-3-hexenyl-cis-3-hexenoate; cis-3-Hexenyl salicylate; Cis-3-hexenyl Benzoate; cis-3-Hexenyl 2-methylbutyrate; Cinnamyl propionate; Cinnamyl isobutyrate; Cinnamyl cinnamate; Cetyl alcohol; (E)-1-(2,6,6-trimethylcyclohex-2-en-1-yl)hepta-1,6-dien-3-one; 2-methyl-4-(2,6,6-trimethylcyclohex-1-en-1-yl)butanal; (3aR,5aR,9aR,9bR)-3a,6,6,9a-tetramethyldodecahydronaphtho[2,1-b]furan; 1,6-dioxacycloheptadecan-7-one; 1-(6-(tert-butyl)-1,1-dimethyl-2,3-dihydro-1H-inden-4-yl)ethan-1-one; Cedryl methyl ether; Cedryl formate; Cedryl acetate; (4Z,8Z)-1,5,9-trimethyl-13-oxabicyclo[10.1.0]trideca-4,8-diene; Cedrol; 5-methyl-1-(2,2,3-trimethylcyclopent-3-en-1-yl)-6-oxabicyclo[3.2.1]octane; 5-methyl-1-(2,2,3-trimethylcyclopent-3-en-1-yl)-6-oxabicyclo[3.2.1]octane; 1,1,2,3,3-pentamethyl-1,2,3,5,6,7-hexahydro-4H-inden-4-one; Caryophyllene alcohol acetate; Caryolan-1-ol; Carvyl acetate; Caprylnitrile; Capric acid; Capraldehyde; Camphene; Ethyl 2-methyl-4-oxo-6-pentylcyclohex-2-ene-1-carboxylate; Butylated hydroxytoluene; Butyl stearate; Butyl 10-undecenoate; 2-methyl-4-(2,2,3-trimethylcyclopent-3-en-1-yl)butan-1-ol; 3-(4-(tert-butyl)phenyl)propanal; Bornyl isobutyrate; Bornyl acetate; 2-ethoxy-2,6,6-trimethyl-9-methylenebicyclo[3.3.1]nonane; (ethoxymethoxy)cyclododecane; Bisabolene; Bigarade oxide; beta-Vetivone; beta-Terpinyl acetate; beta-Sinensal; beta-Sesquiphellandrene; beta-Selinene; beta-Santalol; beta-Pinene; beta-

Naphthyl ethyl ether; beta-Patchoulline; beta-Himachalene Oxide; beta-Himachalene; beta-Guaiene; beta-Farnesene; beta-Copaene; beta-Cedrene; beta-Caryophyllene ; beta-Bisabolol; Benzyl laurate; Benzyl cinnamate; Benzyl benzoate; 2'-isopropyl-1,7,7-trimethylspiro[bicyclo[2.2.1]heptane-2,4'-[1,3]dioxane]; 4-(4-methylpent-3-en-1-yl)cyclohex-3-ene-1-carbonitrile; Methyl (E)-2-((7-hydroxy-3,7-dimethyloctylidene)amino)benzoate; Anisyl phenylacetate; Amyl Cinnamate; (3aR,5aS,9aS,9bR)-3a,6,6,9a-tetramethyldodecahydronaphtho[2,1-b]furan; (4aR,5R,7aS,9R)-2,2,5,8,8,9a-hexamethyloctahydro-4H-4a,9-methanoazuleno[5,6-d][1,3]dioxole; 2,5,5-trimethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-ol; 2,5,5-trimethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-ol; 1-((2-(tert-butyl)cyclohexyl)oxy)butan-2-ol; (3S,5aR,7aS,11aS,11bR)-3,8,8,11a-tetramethyldodecahydro-5H-3,5a-epoxynaphtho[2,1-c]oxepine; 2,2,6,6,7,8,8-heptamethyldecahydro-2H-indeno[4,5-b]furan; 2,2,6,6,7,8,8-heptamethyldecahydro-2H-indeno[4,5-b]furan; Amber acetate; alpha-Vetivone; alpha-Terpinyl propionate; alpha-Sinensal; alpha-Selinene; alpha-Santalene; alpha-Santalol; alpha-Patchoulene; 1-(5,5-dimethylcyclohex-1-en-1-yl)pent-4-en-1-one; alpha-Muurolene; alpha-methyl ionone; alpha-Limonene; alpha-Irone; alpha-Humulene; alpha-Himachalene; alpha-Gurjunene; alpha-Guaiene; alpha-Farnesene; alpha-Fenchene; alpha-Eudesmol; alpha-Curcumene; alpha-Cubebene; alpha-Cedrene epoxide; alpha-Cadinol; alpha-Cadinene; alpha-Bisabolol; alpha-bisabolene; alpha-Bergamotene; alpha-Amylcinnamyl alcohol; alpha-Amylcinnamyl acetate; alpha-Amylcinnamaldehyde diethyl acetal; alpha-Amylcinnamaldehyde; alpha-Amorphene; alpha-Agarofuran; 1-methyl-4-(4-methyl-3-penten-1-yl)-3-Cyclohexene-1-carboxaldehyde; 1-Phenyl-3-methyl-3-pentanol; 2,6,10-Trimethylundecanal; Allyl cyclohexyl propionate; Allo-aromadendrene; Aldehyde C-11; Methyl (E)-2-(((3,5-dimethylcyclohex-3-en-1-yl)methylene)amino)benzoate; 2,6,10-trimethylundec-9-enal; Acetoxymethyl-isolongifolene (isomers); Acetate C9; Acetaldehyde phenylethyl propyl acetal; (Z)-2-(4-methylbenzylidene)heptanal; 9-decenal; 8-Hexadecenolide; 7-epi-alpha-Selinene; 7-eip-alpha-Eudesmol; 7-Acetyl-1,1,3,4,4,6-hexamethyltetralin; 6-Isopropylquinoline; 6,6-dimethyl-2-norpinene-2-propionaldehyde; 6,10,14-trimethyl-2-Pentadecanone; 5-Cyclohexadecenone; 4-Terpinenol; 4-Carvomenthenol; 4,5,6,7-Tetrahydro-3,6-dimethylbenzofuran; 3-Thujopsanone; 3-Nonylacrolein; 3-Hexenyl isovalerate; 3,6-Dimethyl-3-octanyl acetate; 3-(p-Isopropylphenyl)propionaldehyde; 2-Undecenenitrile; 2-Undecenal; 2-Phenylethyl butyrate; 2-Nonen-1-al; 2-Nonanol; 2-Nonanone; 2-Isobutyl quinoline; 2-Hexylidene cyclopentanone; 2-Heptyl tetrahydrofuran; 2-Decenal; 2,6-dimethyl-octanal; 1-Decanol; 1-Hepten-1-ol, 1-acetate; 10-Undecen-1-ol; 10-Undecenal; 10-epi-gamma-Eudesmol;

1,8-Thiocineol; 1,3,5-undecatriene; 1,2-Dihydrolinalool; 1,3,3-trimethyl-2-norbornanyl acetate; 1,1,2,3,3-Pentamethylindan; (Z)-6,10-dimethylundeca-5,9-dien-2-yl acetate; (Z)-3-Dodecenal; (S)-gamma-Undecalactone; (R)-gamma-Undecalactone; (E)-6,10-dimethylundeca-5,9-dien-2-yl acetat; (2Z)-3-methyl-5-phenyl-2-Pentenenitrile; (2S,5S,6S)-2,6,10,10-tetramethyl-1-oxaspiro[4_5]decan-6-ol; (2E)-3-methyl-5-phenyl-2-pentenenitrile; Menthone; (R,E)-2-methyl-4-(2,2,3-trimethylcyclopent-3-en-1-yl)but-2-en-1-ol; 2-(8-isopropyl-6-methylbicyclo[2.2.2]oct-5-en-2-yl)-1,3-dioxolane; gamma-methyl ionone; 3-(3-isopropylphenyl)butanal; 3-(1-ethoxyethoxy)-3,7-dimethylocta-1,6-diene; 3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl propionate; Bulnesol; Benzyl phenylacetate; alpha,alpha,6,6-tetramethyl bicyclo[3.1.1]hept-2-ene-propanal; 7-epi-sesquithujene; 5-Acetyl-1,1,2,3,3,6-hexamethylindan; 2-Tridecenal; Patchouli alcohol; p-Cresyl n-hexanoate; 5-hexyl-4-methyldihydrofuran-2(3H)-one; Ethyl (2Z,4E)-deca-2,4-dienoate; Pelargene; 2-cyclohexylidene-2-phenylacetonitrile; Perillyl acetate; Perillyl alcohol; (2-isopropoxyethyl)benzene; Ethyl (2Z,4E)-deca-2,4-dienoate; (2-(cyclohexyloxy)ethyl)benzene; Phenethyl 2-methylbutyrate; Phenethyl phenylacetate; Phenyl benzoate; Phenyl ethyl benzoate; 2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)acetaldehyde; 3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl pivalate; (E)-3,3-dimethyl-5-(2,2,3-trimethylcyclopent-3-en-1-yl)pent-4-en-2-ol; 1-methyl-4-(4-methylpent-3-en-1-yl)cyclohex-3-ene-1-carbaldehyde; p-Tolyl phenylacetate; Ethyl 2,4,7-decatrienoate; 2-benzyl-4,4,6-trimethyl-1,3-dioxane; 2,4-dimethyl-4-phenyltetrahydrofuran; (2R,4a'R,8a'R)-3,7'-dimethyl-3',4',4a',5',8',8a'-hexahydro-1'H-spiro[oxirane-2,2'-[1,4]methanonaphthalene]; (Z)-6-ethylideneoctahydro-2H-5,8-methanochromene; 2-((S)-1-((S)-3,3-dimethylcyclohexyl)ethoxy)-2-oxoethyl propionate; Methyl 2,2-dimethyl-6-methylenecyclohexane-1-carboxylate; 4-methyl-2-phenyl-3,6-dihydro-2H-pyran; 2,2,7,9-tetramethylspiro(5.5)undec-8-en-1-one; 3-methyl-5-(2,2,3-trimethylcyclopent-3-en-1-yl)pentan-2-ol; (Z)-2-ethyl-4-(2,2,3-trimethylcyclopent-3-en-1-yl)but-2-en-1-ol; (E)-2-methyl-4-(2,2,3-trimethylcyclopent-3-en-1-yl)but-2-en-1-ol; Sclareol; Sclareol oxide; Selina-3,7(11)-diene; 2-(1-(3,3-dimethylcyclohexyl)ethoxy)-2-methylpropyl cyclopropanecarboxylate; 3-(4-isobutylphenyl)-2-methylpropanal; Spathulenol; 1-(spiro[4.5]dec-7-en-7-yl)pent-4-en-1-one; (Z)-dodec-4-enal; tau-Cadinol; tau-Muurolol; Tetrahydrojasmone; 2,6,10,10-tetramethyl-1-oxaspiro[4.5]dec-6-ene; Thujopsene; Thymol methyl ether; 1-(2,2,6-trimethylcyclohexyl)hexan-3-ol; trans,trans-Farnesol; trans-2-Decenal; trans-2-Nonen-1-al; trans-4-Decen-1-al; trans-ambrettolide; trans-beta-ocimene; trans-beta-Ocimene; trans-Geraniol; Tricyclone; Tridecyl alcohol; Methyl 2-((1-hydroxy-3-phenylbutyl)amino)benzoate; 1-((2E,5Z,9Z)-2,6,10-trimethylcyclododeca-2,5,9-trien-1-yl)ethan-1-one; Decahydro-2,6,6,7,8,8-

hexamethyl-2h-indeno(4,5-b)furan; 13-methyl oxacyclopentadec-10-en-2-one; Undecanal; (E)-4-methyldec-3-en-5-ol; Valencene; Valerianol; (Z)-2-methyl-4-(2,6,6-trimethylcyclohex-2-en-1-yl)but-2-enal; 1-methoxy-3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoindene; Methyl (Z)-2-((3-(4-(tert-butyl)phenyl)-2-methylpropylidene)amino)benzoate; Vertacetal; 1-((3R,3aR,7R,8aS)-3,6,8,8-tetramethyl-2,3,4,7,8,8a-hexahydro-1H-3a,7-methanoazulen-5-yl)ethan-1-one; Methyl (Z)-2-(((2,4-dimethylcyclohex-3-en-1-yl)methylene)amino)benzoate; 4,8-dimethyl-2-(propan-2-ylidene)-1,2,3,3a,4,5,6,8a-octahydroazulen-6-ol; Vetivert Acetate; Decahydro-3H-spiro[furan-2,5'-[4,7]methanoindene]; (2Z,6E)-nona-2,6-dienenitrile; (1aR,4S,4aS,7R,7aS,7bS)-1,1,4,7-tetramethyldecahydro-1H-cyclopropa[e]azulen-4-ol; 3,5,5,6,7,8,8-heptamethyl-5,6,7,8-tetrahydronaphthalene-2-carbonitrile; (1S,2S,3S,5R)-2,6,6-trimethylspiro[bicyclo[3.1.1]heptane-3,1'-cyclohexan]-2'-en-4'-one; 1',1',5',5'-tetramethylhexahydro-2'H,5'H-spiro[[1,3]dioxolane-2,8'-[2,4a]methanonaphthalene]; 1',1',5',5'-tetramethylhexahydro-2'H,5'H-spiro[[1,3]dioxolane-2,8'-[2,4a]methanonaphthalene] K; (1R,8aR)-4-isopropyl-1,6-dimethyl-1,2,3,7,8,8a-hexahydronaphthalene; 2,4-dimethyl-2-(5,5,8,8-tetramethyl-5,6,7,8-tetrahydronaphthalen-2-yl)-1,3-dioxolane; 3a,5,6,7,8,8b-hexahydro-2,2,6,6,7,8,8-heptamethyl-4H-indeno(4,5-d)-1,3-dioxole; (1-methyl-2-((1,2,2-trimethylbicyclo[3.1.0]hexan-3-yl)methyl)cyclopropyl)methanol; Isobornylcyclohexanol; Isobornyl cyclohexanol; Indol/Hydroxycitronellal Schiff base; Hydroxymethyl isolongifolene; 8,8-dimethyl-3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl propionate; (E)-4-((3aR,4R,7R,7aR)-1,3a,4,6,7,7a-hexahydro-5H-4,7-methanoinden-5-ylidene)-3-methylbutan-2-ol; Cedryl methyl ether; beta-Copaene; 2'-isopropyl-1,7,7-trimethylspiro[bicyclo[2.2.1]heptane-2,4'-[1,3]dioxane]; (4aR,5R,7aS,9R)-2,2,5,8,8,9a-hexamethyloctahydro-4H-4a,9-methanoazuleno[5,6-d][1,3]dioxole; (3S,5aR,7aS,11aS,11bR)-3,8,8,11a-tetramethyldodecahydro-5H-3,5a-epoxynaphtho[2,1-c]oxepine; 2,2,6,6,7,8,8-heptamethyldecahydro-2H-indeno[4,5-b]furan; alpha-Cedrene epoxide; Acetoxymethyl-isolongifolene (isomers); Sclareol; Decahydro-2,6,6,7,8,8-hexamethyl-2h-indeno(4,5-b)furan; 2-ethylhexyl (Z)-3-(4-methoxyphenyl)acrylate; Methoxycyclododecane; 1-ethoxy-4-(tert-pentyl)cyclohexane; (2-hydroxy-4-methoxyphenyl)(phenyl)methanone; (3Z)-1-(2-buten-1-yloxy)-3-hexene; 4-(2-methoxypropan-2-yl)-1-methylcyclohex-1-ene; 4-(tert-pentyl)cyclohexan-1-one; O-Methyl linalool; 7-isopropyl-8,8-dimethyl-6,10-dioxaspiro[4.5]decane; Octanal, 3,7-dimethyl-; Octanal dimethyl acetal; Myristyl nitrile; n-Hexyl salicylate; n-Hexyl 2-butenoate; Neryl Formate; Nerol; 10-isopropyl-2,7-dimethyl-1-oxaspiro[4.5]deca-3,6-diene; (E)-4-(2,2,3,6-tetramethylcyclohexyl)but-3-en-2-one; Methyl-beta-ionone; 3-methylcyclopentadecan-1-one; (E)-3,7-dimethylocta-4,6-dien-3-ol;

1-(4-isopropylcyclohexyl)ethan-1-ol; Milk Lactone; Methyl stearate; Methyl linoleate; Methyl hexadecanoate; Methyl geraniate; Methyl diphenyl ether; Methyl chavicol; ((1s,4s)-4-isopropylcyclohexyl)methanol; 3-(3-(tert-butyl)phenyl)-2-methylpropanal; (E)-4-(4,8-dimethylnona-3,7-dien-1-yl)pyridine; (E)-trideca-3,12-dienenitrile; 2,2-dimethyl-3-(m-tolyl)propan-1-ol; Maceal; Linalyl propionate; Linalyl octanoate; Linalyl formate; Linalyl butyrate; Linalyl benzoate; Linalyl anthranilate; Linalyl acetate; Linalool; 3-(4-methylcyclohex-3-en-1-yl)butanal; 3-(4-(tert-butyl)phenyl)-2-methylpropanal; Lauraldehyde; Khusinil; 2-hexylcyclopentan-1-one; Isoraldeine; 2,6,9,10-tetramethyl-1-oxaspiro(4.5)deca-3,6-diene; Isopropyl palmitate; Isopropyl dodecanoate; Isononyl acetate; Isohexenyl cyclohexenyl carboxaldehyde; Isobornyl propionate; Isobornyl acetate; Isobergamate; Isoamyl undecylenate; Isoamyl octanoate; Isoamyl laurate; Isoambrettolide; Indol/Hydroxycitronellal Schiff base; 2-cyclododecylpropan-1-ol; Hexyl propanoate; Hexyl butyrate; Hexyl 2-methylbutanoate; Hexyl 2-furoate; Hexadecanolide; Heptyl acetate; 2-(1-(3,3-dimethylcyclohexyl)ethoxy)-2-methylpropyl propionate; (E)-oxacyclohexadec-13-en-2-one; Gyrane; Guaiol; 1-(2,6,6-trimethylcyclohex-2-en-1-yl)pentan-3-one; Germacrene B; Geranyl phenylacetate; Geranyl phenyl acetate; Geranyl nitrile; Geranyl formate; Geranyl caprylate; Geranyl benzoate; Geranial; gamma-Terpinene; gamma-Muurolene; gamma-Himachalene; gamma-Damascone; gamma-Cadinene; 1-(3,3-dimethylcyclohexyl)pent-4-en-1-one; Furfuryl octanoate; Furfuryl hexanoate; Furfuryl heptanoate; Ethyl (3aR,4S,7R,7aR)-octahydro-3aH-4,7-methanoindene-3a-carboxylate; 2-(sec-butyl)cyclohexan-1-one; 3-(2-ethylphenyl)-2,2-dimethylpropanal; 2-(tert-butyl)cyclohexyl ethyl carbonate; 3-(2-ethylphenyl)-2,2-dimethylpropanal; (E)-4,8-dimethyldeca-4,9-dienal; 3-(4-ethylphenyl)-2,2-dimethylpropanenitrile; 2-heptylcyclopentan-1-one; 1-ethoxyethoxy Cyclododecane; Oxacyclohexadecan-2-one; 1-cyclopentadec-4-en-1-one; 1-cyclopentadec-4-en-1-one; Ethylene brassylate; Ethyl undecylenate; Ethyl palmitate; Ethyl octanoate; Ethyl myristate; Ethyl linalool; Ethyl 2-(cyclohexyl)propionate; 6-ethyl-2,10,10-trimethyl-1-oxaspiro[4.5]deca-3,6-diene; (E)-4-((3aS,7aS)-octahydro-5H-4,7-methanoinden-5-ylidene)butanal; 4-methyl-2-phenyltetrahydro-2H-pyran; Diphenyloxide; Diphenylmethane; Dimethyl benzyl carbinyl butyrate; Dihydromyrcenol; Dihydrojasmone; Dihydrocarveol acetate; Dihydro-alpha-terpinyl acetate; Dihydro-alpha-ionone; Dibenzyl ether; Dibutyl o-phthalate; Dibenzyl; delta-Elemene; delta-Cadinene; delta-Amorphene; Decyl anthranilate; Methyl (1s,4s)-1,4-dimethylcyclohexane-1-carboxylate; 3-(4-isopropylphenyl)-2-methylpropanal; Cyclotetradecane ; Cyclopentadecanone; Cyclohexylethyl acetate; Cyclohexyl salicylate; Cosmene; 4-cyclohexyl-2-methylbutan-2-ol; 2-(3-phenylpropyl)pyridine; Citryl acetate; Citrus

Propanol; 2-benzyl-2-methylbut-3-enenitrile; Citronellyl nitrile; Citronellyl phenylacetate; Citronellyl formate; Citronellyl benzoate; Citronellol; Citronellal; Citral; cis-Pinane; Cis-iso-ambrettolide; cis-3-Hexenyl valerate; cis-3-Hexenyl tiglate; cis-3-Hexenyl salicylate; cis-3-Hexenyl butyrate; Cis-3-hexenyl Benzoate; cis-3-Hexenyl 2-methylbutyrate; Cinnamyl isobutyrate; Chloroxylenol; Cetyl alcohol; (E)-1-(2,6,6-trimethylcyclohex-2-en-1-yl)hepta-1,6-dien-3-one; 2-methyl-4-(2,6,6-trimethylcyclohex-1-en-1-yl)butanal; (3aR,5aR,9aR,9bR)-3a,6,6,9a-tetramethyldodecahydronaphtho[2,1-b]furan; (4Z,8Z)-1,5,9-trimethyl-13-oxabicyclo[10.1.0]trideca-4,8-diene; 5-methyl-1-(2,2,3-trimethylcyclopent-3-en-1-yl)-6-oxabicyclo[3.2.1]octane; 1,1,2,3,3-pentamethyl-1,2,3,5,6,7-hexahydro-4H-inden-4-one; Carvacrol; Camphene; Butylated hydroxytoluene; Butyl stearate; Butyl 10-undecenoate; 2-methyl-4-(2,2,3-trimethylcyclopent-3-en-1-yl)butan-1-ol; (E)-2-methyl-4-(2,6,6-trimethylcyclohex-1-en-1-yl)but-2-enal; Bornyl acetate; Bigarade oxide; beta-Phellandrene; beta-Naphthyl ethyl ether; beta-Himachalene; beta-Guaiene; beta-Caryophyllene ; Benzyl salicylate; Benzyl laurate; Benzyl isovalerate; Benzyl cinnamate; Benzyl benzoate; 1-(3,3-dimethylcyclohexyl)ethyl formate; Anethole; Amyl benzoate; (3aR,5aS,9aS,9bR)-3a,6,6,9a-tetramethyldodecahydronaphtho[2,1-b]furan; 2,5,5-trimethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-ol; 2,5,5-trimethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-ol; Amber acetate; alpha-Terpinyl propionate; alpha-Terpinyl acetate; alpha-Santalene; 1-(5,5-dimethylcyclohex-1-en-1-yl)pent-4-en-1-one; alpha-Muurolene; alpha-methyl ionone; alpha-Isomethylionone; alpha-Irone; alpha-Humulene; alpha-Himachalene; alpha-Cadinol; alpha-Cadinene; alpha-Bisabolol; alpha-Amylcinnamyl acetate; alpha-Amorphene; Allyl Phenethyl ether; Allyl heptanoate; Allyl cyclohexyl propionate; 2,6,10-trimethylundec-9-enal; (Z)-2-(4-methylbenzylidene)heptanal; 8-Hexadecenolide; 6,8-Diethyl-2-nonanol; 6,10,14-trimethyl-2-Pentadecanone; 4-Damascol; 3-Nonylacrolein; 3,7-dimethyl-2-methylene-6-octenal; 3,7-dimethyl-1-octanol; 2-Undecenenitrile; 2-Undecenal; 2-Pentylcyclopentan-1-ol; 2-nonanone propylene glycol acetal; 2-Nonanol; 2-Isopropyl-5-methyl-2-hexenal; 2-Hexylidene cyclopentanone; 1,4-Cineole; 1,3,3-trimethyl-2-norbornanyl acetate; 1,1,2,3,3-Pentamethylindan; 1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one; (Z)-6,10-dimethylundeca-5,9-dien-2-yl acetate; (R)-(-)-Linalool; (l)-Citronellal; (E)-6,10-dimethylundeca-5,9-dien-2-yl acetat; (d)-Citronellal; (2S,5S,6S)-2,6,10,10-tetramethyl-1-oxaspiro[4_5]decan-6-ol; (+)-Citronellol; (-)-Citronellol; (+)-alpha-Pinene; (-)-alpha-Pinene; Hexyl tiglate; 2-(8-isopropyl-6-methylbicyclo[2.2.2]oct-5-en-2-yl)-1,3-dioxolane; 3-(3-isopropylphenyl)butanal; Bulnesol; Benzyl phenylacetate; 2-Tridecenal; p-Cresyl n-hexanoate; p-Cymene; 5-hexyl-4-

methyldihydrofuran-2(3H)-one; 2-cyclohexylidene-2-phenylacetonitrile; Perillyl acetate; Perillyl alcohol; (2-(cyclohexyloxy)ethyl)benzene; Phenethyl 2-methylbutyrate; Phenethyl isobutyrate; Phenethyl phenylacetate; Phenethyl tiglate; Phenyl benzoate; Phenyl ethyl benzoate; Phenylethyl methacrylate; (2Z,5Z)-5,6,7-trimethylocta-2,5-dien-4-one; p-Propyl anisole; p-t-butyl phenyl acetaldehyde; p-tert-Amyl cyclohexanol; p-Tolyl phenylacetate; Ethyl 2,4,7-decatrienoate; Racemic alpha-Pinene; 2-benzyl-4,4,6-trimethyl-1,3-dioxane; Ethyl (2,3,6-trimethylcyclohexyl) carbonate; (Z)-6-ethylideneoctahydro-2H-5,8-methanochromene; 2-((S)-1-((S)-3,3-dimethylcyclohexyl)ethoxy)-2-oxoethyl propionate; Methyl 2,2-dimethyl-6-methylenecyclohexane-1-carboxylate; 1-(3,3-dimethylcyclohexyl)ethyl acetate; S)-(+)-Linalool; Sabinene; 3-methyl-5-(2,2,3-trimethylcyclopent-3-en-1-yl)pentan-2-ol; Selina-3,7(11)-diene; 2-(1-(3,3-dimethylcyclohexyl)ethoxy)-2-methylpropyl cyclopropanecarboxylate; tau-Cadinol; tau-Muurolol; Tetrahydrogeranial; Tetrahydroionol; Tetrahydrojasmone; Tetrahydrolinalool; Tetrahydrolinalyl acetate; 2,6,10,10-tetramethyl-1-oxaspiro[4.5]dec-6-ene; Ethyl (1R,6S)-2,2,6-trimethylcyclohexane-1-carboxylate; Thymol; Thymol methyl ether; 1-(2,2,6-trimethylcyclohexyl)hexan-3-ol; (Z)-1-(2,6,6-trimethylcyclohex-2-en-1-yl)but-2-en-1-one; trans-ambrettolide; trans-Anethole; trans-Geraniol; Trichloromethyl phenyl carbinyl acetate; Methyl 2-((1-hydroxy-3-phenylbutyl)amino)benzoate; 1-((2E,5Z,9Z)-2,6,10-trimethylcyclododeca-2,5,9-trien-1-yl)ethan-1-one; 13-methyl oxacyclopentadec-10-en-2-one; Undecanal; (E)-4-methyldec-3-en-5-ol; Valencene; 2,2,5-trimethyl-5-pentylcyclopentan-1-one; (Z)-2-methyl-4-(2,6,6-trimethylcyclohex-2-en-1-yl)but-2-enal; 1-methoxy-3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoindene; 4-(tert-butyl)cyclohexyl acetate; cis-4-(tert-butyl)cyclohexyl acetate; 4-methyl-4-phenylpentan-2-yl acetate; 4,8-dimethyl-2-(propan-2-ylidene)-1,2,3,3a,4,5,6,8a-octahydroazulen-6-ol; (Z)-1-((2-methylallyl)oxy)hex-3-ene; (1R,8aR)-4-isopropyl-1,6-dimethyl-1,2,3,7,8,8a-hexahydronaphthalene and mixtures thereof, preferably said composition comprises a material selected from the group consisting of 2-ethylhexyl (Z)-3-(4-methoxyphenyl)acrylate; 2,4-dimethyl-2-(5,5,8,8-tetramethyl-5,6,7,8-tetrahydronaphthalen-2-yl)-1,3-dioxolane; 1,1-dimethoxynon-2-yne; 3-methoxy-7,7-dimethyl-10-methylenebicyclo[4.3.1]decane; Methoxycyclododecane; 1,1-dimethoxycyclododecane; (Z)-tridec-2-enenitrile; (2-hydroxy-4-methoxyphenyl)(phenyl)methanone; Oxyoctaline formate; 1,8-dioxacycloheptadecan-9-one; 4-(tert-pentyl)cyclohexan-1-one; o-Phenyl anisol; 3a,5,6,7,8,8b-hexahydro-2,2,6,6,7,8,8-heptamethyl-4H-indeno(4,5-d)-1,3-dioxole; 7-isopropyl-8,8-dimethyl-6,10-dioxaspiro[4.5]decane; Octyl 2-furoate; Octyl acetate; octanal propylene glycol acetal; Octanal; Octanal dimethyl acetal; Myrcenyl acetate; Myristaldehyde; Myristyl nitrile; 2,2,6,8-tetramethyl-

1,2,3,4,4a,5,8,8a-octahydronaphthalen-1-ol; Nopyl acetate; Nootkatone; Nonyl alcohol; Nonaldehyde; 12-methyl-14-tetradec-9-enolide; N-ethyl-p-menthane-3-carboxamide; 2-methoxynaphthalene; Nerolidol; Nerol; Methyl (E)-non-2-enoate; 10-isopropyl-2,7-dimethyl-1-oxaspiro[4.5]deca-3,6-diene; Nectaryl; (E)-4-(2,2,3,6-tetramethylcyclohexyl)but-3-en-2-one; Myraldyl acetate; Musk tibetine; 1,7-dioxacycloheptadecan-8-one; Musk ketone; Musk ambrette; 3-methylcyclopentadecan-1-one; (E)-3-methylcyclopentadec-4-en-1-one; 1-(4-isopropylcyclohexyl)ethan-1-ol; Milk Lactone; Methyl octine carbonate; Methyl octyl acetaldehyde; 6,6-dimethoxy-2,5,5-trimethylhex-2-ene; Methyl stearate; Methyl nonyl acetaldehyde dimethyl acetal; Methyl nonyl ketone; Methyl nonyl acetaldehyde; Methyl myristate; Methyl linoleate; Methyl hexadecanoate; Methyl diphenyl ether; Methyl beta-naphthyl ketone; Methyl 2-octynoate; Methyl alpha-cyclogeranate; Menthone 1,2-glycerol ketal (racemic); 3-(3-(tert-butyl)phenyl)-2-methylpropanal; (E)-4-(4,8-dimethylnona-3,7-dien-1-yl)pyridine; (E)-trideca-3,12-dienenitrile; 2,2-dimethyl-3-(m-tolyl)propan-1-ol; Maceal; l-Limonene; Linalyl octanoate; Linalyl isobutyrate; Linalyl benzoate; Linalyl anthranilate; (2Z,6E)-3,7-dimethylnona-2,6-dienenitrile; 3-(4-methylcyclohex-3-en-1-yl)butanal; (2,5-dimethyl-1,3-dihydroinden-2-yl)methanol; 3-(4-(tert-butyl)phenyl)-2-methylpropanal; Lauryl alcohol; Lauryl acetate; Lauric acid; 5-hexyl-5-methyldihydrofuran-2(3H)-one; Lauraldehyde; 4-(1-ethoxyvinyl)-3,3,5,5-tetramethylcyclohexan-1-one; Khusimol; 5-(sec-butyl)-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane; (1-methyl-2-((1,2,2-trimethylbicyclo[3.1.0]hexan-3-yl)methyl)cyclopropyl)methanol; 2-propylheptanenitrile; 2-hexylcyclopentan-1-one; 2,6,9,10-tetramethyl-1-oxaspiro(4.5)deca-3,6-diene; Isopropyl palmitate; Isopropyl myristate; Isopropyl dodecanoate; Iso3-methylcyclopentadecan-1-one; Isomenthone; 2-hexylcyclopent-2-en-1-one; Isomenthone; Isohexenyl cyclohexenyl carboxaldehyde; Isoeugenyl benzyl ether; 1-((2S,3S)-2,3,8,8-tetramethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-yl)ethan-1-one; Isobutyl quinoline; Isobornylcyclohexanol; Isobornyl propionate; Isobornyl isobutyrate; Isobornyl cyclohexanol; Isobornyl acetate; Isobergamate; Isoamyl undecylenate; Isoamyl laurate; Isoambrettolide; Irisnitrile; Indolene; Indol/Hydroxycitronellal Schiff base; 2-cyclododecylpropan-1-ol; Hydrocitronitrile; 2,3-dihydro-3,3-dimethyl-1H-indene-5-propanal; 3-(3,3-dimethyl-2,3-dihydro-1H-inden-5-yl)propanal; Hexyl octanoate; Hexyl hexanoate; Hexyl cinnamic aldehyde; Hexyl benzoate; Hexenyl tiglate; (E)-3,7-dimethylocta-2,6-dien-1-yl palmitate; Hexadecanolide; Ethyl (1R,2R,3R,4R)-3-isopropylbicyclo[2.2.1]hept-5-ene-2-carboxylate; 2-(1-(3,3-dimethylcyclohexyl)ethoxy)-2-methylpropyl propionate; (E)-oxacyclohexadec-13-en-2-one; Gyrane; Guaiol; 1-(2,6,6-trimethylcyclohex-2-en-1-yl)pentan-3-one; Ethyl 2-ethyl-6,6-

dimethylcyclohex-2-ene-1-carboxylate; Germacrene B; Germacrene D; Geranyl phenylacetate; Geranyl phenyl acetate; Geranyl linalool; Geranyl cyclopentanone; gamma-Undecalactone (racemic); gamma-Terpinyl acetate; gamma-Terpineol; gamma-Muurolene; gamma-Ionone; gamma-Himachalene; gamma-Gurjunene; gamma-Eudesmol; gamma-Dodecalactone; gamma-Damascone; gamma-Cadinene; 1-(3,3-dimethylcyclohexyl)pent-4-en-1-one; 4,6,6,7,8,8-hexamethyl-1,3,4,6,7,8-hexahydrocyclopenta[g]isochromene; Furfuryl octanoate; Furfuryl hexanoate; Furfuryl heptanoate; 2-methyldecanenitrile; 8,8-dimethyl-3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl propionate; Ethyl (3aR,4S,7R,7aR)-octahydro-3aH-4,7-methanoindene-3a-carboxylate; (6-isopropyl-9-methyl-1,4-dioxaspiro[4.5]decan-2-yl)methanol; Undec-10-enenitrile; 3-(2-ethylphenyl)-2,2-dimethylpropanal; (E)-4,8-dimethyldeca-4,9-dienal; Fleursandol; 8,8-dimethyl-3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl acetate; 3-(4-ethylphenyl)-2,2-dimethylpropanenitrile; 2-heptylcyclopentan-1-one; 1-ethoxyethoxy Cyclododecane; 3-cyclohexene-1-carboxylic acid, 2,6,6-trimethyl-, methyl ester; Farnesyl acetate; Farnesol; Oxacyclohexadecan-2-one; 1-cyclopentadec-4-en-1-one; Ethylene brassylate; Ethyl undecylenate; Ethyl palmitate; Ethyl nonanoate; Ethyl myristate; Ethyl linalool; Ethyl laurate; Ethyl decanoate; Ethyl gamma-Safranate; 6-ethyl-2,10,10-trimethyl-1-oxaspiro[4.5]deca-3,6-diene; Elemol; (E)-3-methyl-5-(2,2,3-trimethylcyclopent-3-en-1-yl)pent-4-en-2-ol; Dupical; Dodecanal dimethyl acetal; d-Limonene; 7,9-dimethylspiro[5.5]undecan-3-one; Diphenyloxide; Diphenylmethane; Dimethyl benzyl carbinyl butyrate; Octahydro-1H-4,7-methanoinden-5-yl acetate; Dihydrocarveol acetate; Dihydro Linalool; Dibutyl sulfide; Dibenzyl; delta-Undecalactone; delta-Elemene; delta-Guaiene; delta-Dodecalactone; delta-Cadinene; (Z)-1-((1R,2S)-2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one; delta-Amorphene; delta-3-Carene; Decylenic alcohol; Decyl propionate; Decanal diethyl acetal; 1-cyclohexylethyl (E)-but-2-enoate; 3-(4-isopropylphenyl)-2-methylpropanal; Cyclotetradecane ; Cyclopentadecanone; Cyclohexyl salicylate; 3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-5-yl isobutyrate; 8,8-dimethyl-1,2,3,4,5,6,7,8-octahydronaphthalene-2-carbaldehyde; 3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl butyrate; Curzerene; 2-(3-phenylpropyl)pyridine; Dodecanenitrile; (E)-cycloheptadec-9-en-1-one; Citryl acetate; Citrus Propanol; Citronitrile; Citral propylene glycol acetal; Citral dimethyl acetal; Citral diethyl acetal; cis-Ocimene; Cis-iso-ambrettolide; cis-4-Decen-1-al; cis-3-hexenyl-cis-3-hexenoate; cis-3-Hexenyl salicylate; Cis-3-hexenyl Benzoate; cis-3-Hexenyl 2-methylbutyrate; Cinnamyl propionate; Cinnamyl isobutyrate; Cinnamyl cinnamate; Cetyl alcohol; (E)-1-(2,6,6-trimethylcyclohex-2-en-1-yl)hepta-1,6-dien-3-one; 2-methyl-4-(2,6,6-trimethylcyclohex-1-en-1-yl)butanal; (3aR,5aR,9aR,9bR)-3a,6,6,9a-

tetramethyldodecahydronaphtho[2,1-b]furan; 1,6-dioxacycloheptadecan-7-one; 1-(6-(tert-butyl)-1,1-dimethyl-2,3-dihydro-1H-inden-4-yl)ethan-1-one; Cedryl methyl ether; Cedryl formate; Cedryl acetate; (4Z,8Z)-1,5,9-trimethyl-13-oxabicyclo[10.1.0]trideca-4,8-diene; Cedrol; 5-methyl-1-(2,2,3-trimethylcyclopent-3-en-1-yl)-6-oxabicyclo[3.2.1]octane; 1,1,2,3,3-pentamethyl-1,2,3,5,6,7-hexahydro-4H-inden-4-one; Caryophyllene alcohol acetate; Caryolan-1-ol; Carvyl acetate; Caprylnitrile; Capric acid; Capraldehyde; Camphene; Ethyl 2-methyl-4-oxo-6-pentylcyclohex-2-ene-1-carboxylate; Butylated hydroxytoluene; Butyl stearate; Butyl 10-undecenoate; 2-methyl-4-(2,2,3-trimethylcyclopent-3-en-1-yl)butan-1-ol; Bornyl isobutyrate; Bornyl acetate; 2-ethoxy-2,6,6-trimethyl-9-methylenebicyclo[3.3.1]nonane; (ethoxymethoxy)cyclododecane; Bisabolene; Bigarade oxide; beta-Vetivone; beta-Terpinyl acetate; beta-Sinensal; beta-Sesquiphellandrene; beta-Selinene; beta-Santalol; beta-Pinene; beta-Naphthyl ethyl ether; beta-Patchoulline; beta-Himachalene Oxide; beta-Himachalene; beta-Guaiene; beta-Farnesene; beta-Copaene; beta-Cedrene; beta-Caryophyllene ; beta-Bisabolol; Benzyl laurate; Benzyl cinnamate; Benzyl benzoate; 2'-isopropyl-1,7,7-trimethylspiro[bicyclo[2.2.1]heptane-2,4'-[1,3]dioxane]; 4-(4-methylpent-3-en-1-yl)cyclohex-3-ene-1-carbonitrile; Methyl (E)-2-((7-hydroxy-3,7-dimethyloctylidene)amino)benzoate; Anisyl phenylacetate; Amyl Cinnamate; (3aR,5aS,9aS,9bR)-3a,6,6,9a-tetramethyldodecahydronaphtho[2,1-b]furan; (4aR,5R,7aS,9R)-2,2,5,8,8,9a-hexamethyloctahydro-4H-4a,9-methanoazuleno[5,6-d][1,3]dioxole; 2,5,5-trimethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-ol; 2,5,5-trimethyl-1,2,3,4,4a,5,6,7-octahydronaphthalen-2-ol; Ambercore; Amberketal; Amber Extreme; Amber Extreme; Amber acetate; alpha-Vetivone; alpha-Terpinyl propionate; alpha-Sinensal; alpha-Selinene; alpha-Santalene; alpha-Santalol; alpha-Patchoulene; 1-(5,5-dimethylcyclohex-1-en-1-yl)pent-4-en-1-one; alpha-Muurolene; alpha-methyl ionone; alpha-Limonene; alpha-Irone; alpha-Humulene; alpha-Himachalene; alpha-Gurjunene; alpha-Guaiene; alpha-Farnesene; alpha-Fenchene; alpha-Eudesmol; alpha-Curcumene; alpha-Cubebene; alpha-Cedrene epoxide; alpha-Cadinol; alpha-Cadinene; alpha-Bisabolol; alpha-bisabolene; alpha-Bergamotene; alpha-Amylcinnamyl alcohol; alpha-Amylcinnamyl acetate; alpha-Amylcinnamaldehyde diethyl acetal; alpha-Amylcinnamaldehyde; alpha-Amorphene; alpha-Agarofuran; 1-methyl-4-(4-methyl-3-penten-1-yl)-3-Cyclohexene-1-carboxaldehyde; 1-Phenyl-3-methyl-3-pentanol; 2,6,10-Trimethylundecanal; Allyl cyclohexyl propionate; Allo-aromadendrene; Aldehyde C-11; Agrumea; 2,6,10-trimethylundec-9-enal; Acetoxymethyl-isolongifolene (isomers); Acetate C9; Acetaldehyde phenylethyl propyl acetal; (Z)-2-(4-methylbenzylidene)heptanal; 9-decenal; 8-Hexadecenolide; 7-epi-alpha-Selinene; 7-eip-

alpha-Eudesmol; 7-Acetyl-1,1,3,4,4,6-hexamethyltetralin; 6-Isopropylquinoline; 6,6-dimethyl-2-norpinene-2-propionaldehyde; 6,10,14-trimethyl-2-Pentadecanone; 5-Cyclohexadecenone; 4-Terpinenol; 4-Carvomenthenol; 4,5,6,7-Tetrahydro-3,6-dimethylbenzofuran; 3-Thujopsanone; 3-Nonylacrolein; 3-Hexenyl isovalerate; 3,6-Dimethyl-3-octanyl acetate; 3-(p-Isopropylphenyl)propionaldehyde; 2-Undecenenitrile; 2-Undecenal; 2-Phenylethyl butyrate; 2-Nonen-1-al; 2-Nonanol; 2-Nonanone; 2-Isobutyl quinoline; 2-Hexylidene cyclopentanone; 2-Heptyl tetrahydrofuran; 2-Decenal; 2,6-dimethyl-octanal; 1-Decanol; 1-Hepten-1-ol, 1-acetate; 10-Undecen-1-ol; 10-Undecenal; 10-epi-gamma-Eudesmol; 1,8-Thiocineol; 1,3,5-undecatriene; 1,2-Dihydrolinalool; 1,3,3-trimethyl-2-norbornanyl acetate; 1,1,2,3,3-Pentamethylindan; (Z)-6,10-dimethylundeca-5,9-dien-2-yl acetate; (Z)-3-Dodecenal; (S)-gamma-Undecalactone; (R)-gamma-Undecalactone; (E)-6,10-dimethylundeca-5,9-dien-2-yl acetate; (2Z)-3-methyl-5-phenyl-2-Pentenenitrile; (2S,5S,6S)-2,6,10,10-tetramethyl-1-oxaspiro[4_5]decan-6-ol; (2E)-3-methyl-5-phenyl-2-pentenenitrile; Menthone; Hindinol; Glycolierral; gamma-methyl ionone; 3-(3-isopropylphenyl)butanal; Elintaal; Cyclaprop; Bulnesol; Benzyl phenylacetate; alpha,alpha,6,6-tetramethyl bicyclo[3.1.1]hept-2-ene-propanal; 7-epi-sesquithujene; 5-Acetyl-1,1,2,3,3,6-hexamethylindan; 2-Tridecenal; Patchouli alcohol; p-Cresyl n-hexanoate; 5-hexyl-4-methyldihydrofuran-2(3H)-one; Pear Ester; Pelargene; 2-cyclohexylidene-2-phenylacetonitrile; Perillyl acetate; Perillyl alcohol; (2-isopropoxyethyl)benzene; Pharaone; (2-(cyclohexyloxy)ethyl)benzene; Phenethyl 2-methylbutyrate; Phenethyl phenylacetate; Phenyl benzoate; Phenyl ethyl benzoate; 2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)acetaldehyde; Pivacyclene; Polysantol; Precyclemone B; p-Tolyl phenylacetate; Ethyl 2,4,7-decatrienoate; 2-benzyl-4,4,6-trimethyl-1,3-dioxane; 2,4-dimethyl-4-phenyltetrahydrofuran; Rhubofix; (Z)-6-ethylideneoctahydro-2H-5,8-methanochromene; 2-((S)-1-((S)-3,3-dimethylcyclohexyl)ethoxy)-2-oxoethyl propionate; Methyl 2,2-dimethyl-6-methylenecyclohexane-1-carboxylate; 4-methyl-2-phenyl-3,6-dihydro-2H-pyran; Salviac; 3-methyl-5-(2,2,3-trimethylcyclopent-3-en-1-yl)pentan-2-ol; Sandranol; Santaliff; Sclareol; Sclareol oxide; Selina-3,7(11)-diene; 2-(1-(3,3-dimethylcyclohexyl)ethoxy)-2-methylpropyl cyclopropanecarboxylate; Silvial; Spathulenol; Spirogalbanone; (Z)-dodec-4-enal; tau-Cadinol; tau-Muurolol; Tetrahydrojasmone; 2,6,10,10-tetramethyl-1-oxaspiro[4.5]dec-6-ene; Thujopsene; Thymol methyl ether; 1-(2,2,6-trimethylcyclohexyl)hexan-3-ol; trans,trans-Farnesol; trans-2-Decenal; trans-2-Nonen-1-al; trans-4-Decen-1-al; trans-ambrettolide; trans-beta-ocimene; trans-beta-Ocimene; trans-Geraniol; Tricyclone; Tridecyl alcohol; Methyl 2-((1-hydroxy-3-phenylbutyl)amino)benzoate; 1-((2E,5Z,9Z)-2,6,10-trimethylcyclododeca-2,5,9-trien-1-yl)ethan-1-one; Trisamber; 1-((2E,5Z13-

methyl oxacyclopentadec-10-en-2-one9Z)-2,6,10-trimethylcyclododeca-2,5,9-trien-1-yl)ethan-1-one; Undecanal; (E)-4-methyldec-3-en-5-ol; Valencene; Valerianol; (Z)-2-methyl-4-(2,6,6-trimethylcyclohex-2-en-1-yl)but-2-enal; 1-methoxy-3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoindene; Verdantiol; Vertacetal; Vertofix; Vertosine; 4,8-dimethyl-2-(propan-2-ylidene)-1,2,3,3a,4,5,6,8a-octahydroazulen-6-ol; Vetivert Acetate; Decahydro-3H-spiro[furan-2,5'-[4,7]methanoindene]; (2Z,6E)-nona-2,6-dienenitrile; Viridiflorol; Vulcanolide; Wolfwood; 1',1',5',5'-tetramethylhexahydro-2'H,5'H-spiro[[1,3]dioxolane-2,8'-[2,4a]methanonaphthalene]; (2'S,4a'S,8a'S)-1',1',5',5'-tetramethylhexahydro-2'H,5'H-spiro[[1,3]dioxolane-2,8'-[2,4a]methanonaphthalene]; Zonarene; 2,4-dimethyl-2-(5,5,8,8-tetramethyl-5,6,7,8-tetrahydronaphthalen-2-yl)-1,3-dioxolane; 3a,5,6,7,8,8b-hexahydro-2,2,6,6,7,8,8-heptamethyl-4H-indeno(4,5-d)-1,3-dioxole; (1-methyl-2-((1,2,2-trimethylbicyclo[3.1.0]hexan-3-yl)methyl)cyclopropyl)methanol; Isobornylcyclohexanol; Isobornyl cyclohexanol; Indol/Hydroxycitronellal Schiff base; Hydroxymethyl isolongifolene; 8,8-dimethyl-3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl propionate; Fleursandol; Cedryl methyl ether; beta-Copaene; 2'-isopropyl-1,7,7-trimethylspiro[bicyclo[2.2.1]heptane-2,4'-[1,3]dioxane]; (4aR,5R,7aS,9R)-2,2,5,8,8,9a-hexamethyloctahydro-4H-4a,9-methanoazuleno[5,6-d][1,3]dioxole; Amberketal; Amber Extreme; alpha-Cedrene epoxide; Acetoxymethyl-isolongifolene (isomers); Sclareol; Trisamber; 2-ethylhexyl (Z)-3-(4-methoxyphenyl)acrylate; Methoxycyclododecane; 1-ethoxy-4-(tert-pentyl)cyclohexane; (2-hydroxy-4-methoxyphenyl)(phenyl)methanone; (3Z)-1-(2-buten-1-yloxy)-3-hexene; 4-(2-methoxypropan-2-yl)-1-methylcyclohex-1-ene; 4-(tert-pentyl)cyclohexan-1-one; O-Methyl linalool; 7-isopropyl-8,8-dimethyl-6,10-dioxaspiro[4.5]decane; Octanal, 3,7-dimethyl-; Octanal dimethyl acetal; Myristyl nitrile; n-Hexyl salicylate; n-Hexyl 2-butenoate; Neryl Formate; Nerol; 10-isopropyl-2,7-dimethyl-1-oxaspiro[4.5]deca-3,6-diene; (E)-4-(2,2,3,6-tetramethylcyclohexyl)but-3-en-2-one; Methyl-beta-ionone; 3-methylcyclopentadecan-1-one; Muguol; 1-(4-isopropylcyclohexyl)ethan-1-ol; Milk Lactone; Methyl stearate; Methyl linoleate; Methyl hexadecanoate; Methyl geraniate; Methyl diphenyl ether; Methyl chavicol; ((1s,4s)-4-isopropylcyclohexyl)methanol; 3-(3-(tert-butyl)phenyl)-2-methylpropanal; (E)-4-(4,8-dimethylnona-3,7-dien-1-yl)pyridine; (E)-trideca-3,12-dienenitrile; 2,2-dimethyl-3-(m-tolyl)propan-1-ol; Maceal; Linalyl propionate; Linalyl octanoate; Linalyl formate; Linalyl butyrate; Linalyl benzoate; Linalyl anthranilate; Linalyl acetate; Linalool; 3-(4-methylcyclohex-3-en-1-yl)butanal; 3-(4-(tert-butyl)phenyl)-2-methylpropanal; Lauraldehyde; Khusinil; 2-hexylcyclopentan-1-one; Isoraldeine; 2,6,9,10-tetramethyl-1-oxaspiro(4.5)deca-3,6-diene;

Isopropyl palmitate; Isopropyl dodecanoate; Isononyl acetate; Isohexenyl cyclohexenyl carboxaldehyde; Isobornyl propionate; Isobornyl acetate; Isobergamate; Isoamyl undecylenate; Isoamyl octanoate; Isoamyl laurate; Isoambrettolide; Indol/Hydroxycitronellal Schiff base; 2-cyclododecylpropan-1-ol; Hexyl propanoate; Hexyl butyrate; Hexyl 2-methylbutanoate; Hexyl 2-furoate; Hexadecanolide; Heptyl acetate; 2-(1-(3,3-dimethylcyclohexyl)ethoxy)-2-methylpropyl propionate; (E)-oxacyclohexadec-13-en-2-one; Gyrane; Guaiol; 1-(2,6,6-trimethylcyclohex-2-en-1-yl)pentan-3-one; Germacrene B; Geranyl phenylacetate; Geranyl phenyl acetate; Geranyl formate; Geranyl caprylate; Geranyl benzoate; Geranial; gamma-Terpinene; gamma-Muurolene; gamma-Himachalene; gamma-Damascone; gamma-Cadinene; 1-(3,3-dimethylcyclohexyl)pent-4-en-1-one; Furfuryl octanoate; Furfuryl hexanoate; Furfuryl heptanoate; Ethyl (3aR,4S,7R,7aR)-octahydro-3aH-4,7-methanoindene-3a-carboxylate; 2-(sec-butyl)cyclohexan-1-one; Florazon (ortho-isomer); Floramat; 3-(2-ethylphenyl)-2,2-dimethylpropanal; (E)-4,8-dimethyldeca-4,9-dienal; 3-(4-ethylphenyl)-2,2-dimethylpropanenitrile; 2-heptylcyclopentan-1-one; 1-ethoxyethoxy Cyclododecane; Oxacyclohexadecan-2-one; 1-cyclopentadec-4-en-1-one ; 1-cyclopentadec-4-en-1-one ; Ethylene brassylate; Ethyl undecylenate; Ethyl palmitate; Ethyl octanoate; Ethyl myristate; Ethyl linalool; Ethyl 2-(cyclohexyl)propionate; 6-ethyl-2,10,10-trimethyl-1-oxaspiro[4.5]deca-3,6-diene; Dupical; Doremox; Diphenyloxide; Diphenylmethane; Dimethyl benzyl carbinyl butyrate; Dihydromyrcenol; Dihydrojasmone; Dihydrocarveol acetate; Dihydro-alpha-terpinyl acetate; Dihydro-alpha-ionone; Dibenzyl ether; Dibutyl o-phthalate; Dibenzyl; delta-Elemene; delta-Cadinene; delta-Amorphene; Decyl anthranilate; Methyl (1s,4s)-1,4-dimethylcyclohexane-1-carboxylate; 3-(4-isopropylphenyl)-2-methylpropanal; Cyclotetradecane ; Cyclopentadecanone; Cyclohexylethyl acetate; Cyclohexyl salicylate; Cosmene; 4-cyclohexyl-2-methylbutan-2-ol; 2-(3-phenylpropyl)pyridine; Citryl acetate; Citrus Propanol; Citrowanil B; Citronellyl nitrile; Citronellyl phenylacetate; Citronellyl formate; Citronellyl benzoate; Citronellol; Citronellal ; Citral; cis-Pinane; Cis-iso-ambrettolide; cis-3-Hexenyl valerate; cis-3-Hexenyl tiglate; cis-3-Hexenyl salicylate; cis-3-Hexenyl butyrate; Cis-3-hexenyl Benzoate; cis-3-Hexenyl 2-methylbutyrate; Cinnamyl isobutyrate; Chloroxylenol; Cetyl alcohol; (E)-1-(2,6,6-trimethylcyclohex-2-en-1-yl)hepta-1,6-dien-3-one; 2-methyl-4-(2,6,6-trimethylcyclohex-1-en-1-yl)butanal; (3aR,5aR,9aR,9bR)-3a,6,6,9a-tetramethyldodecahydronaphtho[2,1-b]furan; (4Z,8Z)-1,5,9-trimethyl-13-oxabicyclo[10.1.0]trideca-4,8-diene; 1,1,2,3,3-pentamethyl-1,2,3,5,6,7-hexahydro-4H-inden-4-one; Carvacrol; Camphene; Butylated hydroxytoluene; Butyl stearate; Butyl 10-undecenoate; 2-methyl-4-(2,2,3-trimethylcyclopent-3-en-1-yl)butan-1-ol; Boronal; Bornyl acetate; Bigarade

oxide; beta-Phellandrene; beta-Naphthyl ethyl ether; beta-Himachalene; beta-Guaiene; beta-Caryophyllene ; Benzyl salicylate; Benzyl laurate; Benzyl isovalerate; Benzyl cinnamate; Benzyl benzoate; Aphermate; Anethole; Amyl benzoate; (3aR,5aS,9aS,9bR)-3a,6,6,9a-tetramethyldodecahydronaphtho[2,1-b]furan; 2,5,5-trimethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-ol; 2,5,5-trimethyl-1,2,3,4,4a,5,6,7-octahydronaphthalen-2-ol; Amber acetate; alpha-Terpinyl propionate; alpha-Terpinyl acetate; alpha-Santalene; 1-(5,5-dimethylcyclohex-1-en-1-yl)pent-4-en-1-one; alpha-Muurolene; alpha-methyl ionone; alpha-Isomethylionone; alpha-Irone; alpha-Humulene; alpha-Himachalene; alpha-Cadinol; alpha-Cadinene; alpha-Bisabolol; alpha-Amylcinnamyl acetate; alpha-Amorphene; Allyl Phenethyl ether; Allyl heptanoate; Allyl cyclohexyl propionate; 2,6,10-trimethylundec-9-enal; (Z)-2-(4-methylbenzylidene)heptanal; 8-Hexadecenolide; 6,8-Diethyl-2-nonanol; 6,10,14-trimethyl-2-Pentadecanone; 4-Damascol; 3-Nonylacrolein; 3,7-dimethyl-2-methylene-6-octenal; 3,7-dimethyl-1-octanol; 2-Undecenenitrile; 2-Undecenal; 2-Pentylcyclopentan-1-ol; 2-nonanone propylene glycol acetal; 2-Nonanol; 2-Isopropyl-5-methyl-2-hexenal; 2-Hexylidene cyclopentanone; 1,4-Cineole; 1,3,3-trimethyl-2-norbornanyl acetate; 1,1,2,3,3-Pentamethylindan; 1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one; (Z)-6,10-dimethylundeca-5,9-dien-2-yl acetate; (R)-(-)-Linalool; (l)-Citronellal; (E)-6,10-dimethylundeca-5,9-dien-2-yl acetate; (d)-Citronellal; (2S,5S,6S)-2,6,10,10-tetramethyl-1-oxaspiro[4_5]decan-6-ol; (+)-Citronellol; (-)-Citronellol; (+)-alpha-Pinene; (-)-alpha-Pinene; Hexyl tiglate; Glycolierral; 3-(3-isopropylphenyl)butanal; Bulnesol; Benzyl phenylacetate; 2-Tridecenal; p-Cresyl n-hexanoate; p-Cymene; 5-hexyl-4-methyldihydrofuran-2(3H)-one; 2-cyclohexylidene-2-phenylacetonitrile; Perillyl acetate; Perillyl alcohol; (2-(cyclohexyloxy)ethyl)benzene; Phenethyl 2-methylbutyrate; Phenethyl isobutyrate; Phenethyl phenylacetate; Phenethyl tiglate; Phenyl benzoate; Phenyl ethyl benzoate; Phenylethyl methacrylate; (2Z,5Z)-5,6,7-trimethylocta-2,5-dien-4-one; p-Propyl anisole; p-t-butyl phenyl acetaldehyde; p-tert-Amyl cyclohexanol; p-Tolyl phenylacetate; Ethyl 2,4,7-decatrienoate; Racemic alpha-Pinene; 2-benzyl-4,4,6-trimethyl-1,3-dioxane; Ethyl (2,3,6-trimethylcyclohexyl) carbonate; (Z)-6-ethylideneoctahydro-2H-5,8-methanochromene; 2-((S)-1-((S)-3,3-dimethylcyclohexyl)ethoxy)-2-oxoethyl propionate; Methyl 2,2-dimethyl-6-methylenecyclohexane-1-carboxylate; 1-(3,3-dimethylcyclohexyl)ethyl acetate; S)-(+)-Linalool; Sabinene; 3-methyl-5-(2,2,3-trimethylcyclopent-3-en-1-yl)pentan-2-ol; Selina-3,7(11)-diene; 2-(1-(3,3-dimethylcyclohexyl)ethoxy)-2-methylpropyl cyclopropanecarboxylate; tau-Cadinol; tau-Muurolol; Tetrahydrogeranial; Tetrahydroionol; Tetrahydrojasmone; Tetrahydrolinalool; Tetrahydrolinalyl acetate; 2,6,10,10-tetramethyl-1-oxaspiro[4.5]dec-6-ene; Ethyl (1R,6S)-2,2,6-

trimethylcyclohexane-1-carboxylate; Thymol; Thymol methyl ether; 1-(2,2,6-trimethylcyclohexyl)hexan-3-ol; (Z)-1-(2,6,6-trimethylcyclohex-2-en-1-yl)but-2-en-1-one; trans-ambrettolide; trans-Anethole; trans-Geraniol; Trichloromethyl phenyl carbinyl acetate; Methyl 2-((1-hydroxy-3-phenylbutyl)amino)benzoate; 1-((2E,5Z,9Z)-2,6,10-trimethylcyclododeca-2,5,9-trien-1-yl)ethan-1-one; 1-((2E,5Z13-methyl oxacyclopentadec-10-en-2-one9Z)-2,6,10-trimethylcyclododeca-2,5,9-trien-1-yl)ethan-1-one; Undecanal; (E)-4-methyldec-3-en-5-ol; Valencene; 2,2,5-trimethyl-5-pentylcyclopentan-1-one; (Z)-2-methyl-4-(2,6,6-trimethylcyclohex-2-en-1-yl)but-2-enal; 1-methoxy-3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoindene; 4-(tert-butyl)cyclohexyl acetate; cis-4-(tert-butyl)cyclohexyl acetate; 4-methyl-4-phenylpentan-2-yl acetate; 4,8-dimethyl-2-(propan-2-ylidene)-1,2,3,3a,4,5,6,8a-octahydroazulen-6-ol; (Z)-1-((2-methylallyl)oxy)hex-3-ene; 4-(4-hydroxy-3-methoxyphenyl)butan-2-oneand mixtures thereof.

6. A composition according to Claim 1 comprising a malodor reduction material selected from para-Cymen-8-ol; (2-hydroxy-4-methoxyphenyl)(phenyl)methanone; 4-methyl-1-oxaspiro[5.5]undecan-4-ol; 7-methyl-2H-benzo[b][1,4]dioxepin-3(4H)-one; 1,8-dioxacycloheptadecan-9-one; 4-(tert-pentyl)cyclohexan-1-one; Octanal dimethyl acetal; Myrcene; Myrcenol; Myrcenyl acetate; Myristicine; Ocimenol; Nonyl alcohol; N-ethyl-p-menthane-3-carboxamide; 1,7-dioxacycloheptadecan-8-one; Methoxycitronellal; l-Limonene; linalool oxide; (E)-1-(1-methoxypropoxy)hex-3-ene; Leaf acetal; Lauryl alcohol; 2-methyl-4-phenyl-1,3-dioxolane; Isopimpinellin; Iso3-methylcyclopentadecan-1-one; Isomenthone; Isomenthone; Isoambrettolide; 4,4a,5,9b-tetrahydroindeno[1,2-d][1,3]dioxine; Hydroxy-citronellol; 5-ethyl-4-hydroxy-2-methylfuran-3(2H)-one; Hexadecanolide; 3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl acetate; Heliotropine diethyl acetal; (E)-oxacyclohexadec-13-en-2-one; gamma-Terpineol; (Z)-6-ethylideneoctahydro-2H-5,8-methanochromen-2-one; Oxacyclohexadecan-2-one; 1-cyclopentadec-4-en-1-one; 1-cyclopentadec-4-en-1-one; 2-methoxy-4-(4-methylenetetrahydro-2H-pyran-2-yl)phenol; Ethylene brassylate; Ethyl 3-phenylglycidate; d-xylose; d-Limonene; Dipropylene Glycol; Diphenylmethane; Dihydro Linalool; Dibenzyl; delta-3-Carene; Decahydro-beta-naphthol; Cyclotetradecane ; Cyclopentadecanone; Cyclohexyl salicylate; Cyclic ethylene dodecanedioate; (E)-cycloheptadec-9-en-1-one; cis-Ocimene; cis-Limonene oxide; Cis-iso-ambrettolide; cis-3-Hexenyl salicylate; 1,6-dioxacycloheptadecan-7-one; Caprylnitrile; Caprylic alcohol; Camphorquinone; Camphene; Butylated hydroxytoluene; Butyl butyryl lactate; beta-Terpineol; beta-Selinene; beta-Pinene; beta-Patchoulline; beta-Cedrene; Bergaptene; Benzyl-tert-butanol; Benzyl dimethyl carbinol; alpha-Thujone; alpha-Limonene; alpha-Fenchene; 2,3,4-trimethoxy-benzaldehyde; 2,4,5-

trimethoxy-benzaldehyde; 2,4,6-trimethoxybenzaldehyde; 2,6,10-Trimethylundecanal; Allyl 2-(isopentyloxy)acetate; Acetaldehyde dipropyl acetal; 8-Hexadecenolide; 5-Isopropenyl-2-methyl-2-vinyltetrahydrofuran; 5-Cyclohexadecenone; 3,4,5-trimethoxybenzaldehyde; 2-Phenoxyethanol; 2-Nonanol; 2,6-dimethyl-octanal; 1-Decanol; 1,2-Dihydrolinalool; Menthone; (E)-1,2,4-trimethoxy-5-(prop-1-en-1-yl)benzene; Phenethyl alcohol; Phenylacetaldehyde ethyleneglycol acetal; 6,6-dimethyl-2-methylenebicyclo[3.1.1]heptan-3-ol; Piperonyl acetone; (4aR,8aS)-7-methyloctahydro-1,4-methanonaphthalen-6(2H)-one; p-Menth-3-en-1-ol; Propylene glycol; 4-methyl-2-phenyl-3,6-dihydro-2H-pyran; Spirodecane; 1-(spiro[4.5]dec-7-en-7-yl)pent-4-en-1-one; 2-(4-methylthiazol-5-yl)ethan-1-ol; Thujopsene; trans-ambrettolide; trans-beta-ocimene; trans-beta-Ocimene; Tridecyl alcohol; Triethyl citrate; Methyl 2,4-dihydroxy-3,6-dimethylbenzoate; Decahydro-3H-spiro[furan-2,5'-[4,7]methanoindene]; 4-(4-hydroxy-3-methoxyphenyl)butan-2-one; (2-hydroxy-4-methoxyphenyl)(phenyl)methanone; 4-(tert-pentyl)cyclohexan-1-one; Octanal, 3,7-dimethyl-; Octanal dimethyl acetal; Myrcenol; Myristicine; Myroxide; (E)-3,7-dimethylocta-4,6-dien-3-ol; 2-methyl-6-oxaspiro[4.5]decan-7-one; 2-ethoxy-4-(methoxymethyl)phenol; Methoxymelonal; Methoxycitronellal; Linalool; (Z)-hex-3-en-1-yl methyl carbonate; (E)-1-(1-methoxypropoxy)hex-3-ene; L-Carvone; Isopropylvinylcarbinol; Isopropyl 2-methylbutyrate; Isopentyrate; Isononanol; Isoamyl isobutyrate; Isoambrettolide; Hexadecanolide; Heptyl alcohol; Heliotropine diethyl acetal; Heliotropin; (E)-oxacyclohexadec-13-en-2-one; gamma-Terpinene; Fenchyl alcohol; Oxacyclohexadecan-2-one; 1-cyclopentadec-4-en-1-one; 1-cyclopentadec-4-en-1-one; Eucalyptol; Ethylene brassylate; Ethyl 3-phenylglycidate; d-xylose; d-p-8(9)-Menthen-2-one; Diphenylmethane; Dihydromyrcenol; Dihydroisophorone; Dihydrocoumarin; Dihydrocarvone; Dibenzyl; Decahydro-beta-naphthol; Cyclotetradecane; Cyclopentadecanone; Cyclohexyl salicylate; Cyclic ethylene dodecanedioate; Cosmene; 4-cyclohexyl-2-methylbutan-2-ol; Citronellyl nitrile; Citronellyl formate; cis-Pinane; Cis-iso-ambrettolide; cis-3-Hexenyl salicylate; Cinnamyl nitrile; Cinnamyl nitrile; Carvone; Carbitol; Caproyl alcohol; 2-(2,2,3-trimethylcyclopent-3-en-1-yl)acetonitrile; Camphor; Camphene; Butylated hydroxytoluene; beta-Pinene epoxide; beta-Phellandrene; Bergaptene; Benzylacetone; Benzyl salicylate; Benzyl alcohol; Anisyl acetate; Anisyl formate; alpha-Thujone; 2,5-Dimethyl-4-methoxy-3(2H)-furanone; Allyl phenoxyacetate; 3-hydroxybutan-2-one; 8-Hexadecenolide; 6,8-Diethyl-2-nonanol; 5-Methyl-3-heptanone; 3-Methyl-1,2-cyclopentanedione; 3-Methoxy-3-Methyl Butanol ; 3,7-dimethyl-1-octanol; 2-Nonanol; 2-Methoxy-3-(1-methylpropyl)pyrazine; 2-isopropyl-N,2,3-trimethylbutyramide; 2-Isopropyl-5-methyl-2-hexenal; 2-Butoxyethanol; 1,4-Cineole; (S)-

(1R,5R)-4,6,6-trimethylbicyclo[3.1.1]hept-3-en-2-one; (R)-(-)-Linalool; (+)-alpha-Pinene; (+)-Carvone; (-)-alpha-Pinene; Methyl 2-methylbutyrate; p-Cymene; 1,2-dimethyl-3-(prop-1-en-2-yl)cyclopentan-1-ol; Racemic alpha-Pinene; 4-(4-hydroxyphenyl)butan-2-one; S)-(+)-Linalool; Sabinene; Sabinene hydrate; 1-oxaspiro(4,5)decan-2-one; (Z)-5-methylheptan-3-one oxime; Tetrahydrogeranial; Tetrahydrolinalool; trans-2-tert-Butylcyclohexanol; trans-ambrettolide; trans-Dihydrocarvone; Trichloromethyl phenyl carbinyl acetate; Triethyl citrate; 2,2,5-trimethyl-5-pentylcyclopentan-1-one; Veratraldehyde; (1R,5R)-4,6,6-trimethylbicyclo[3.1.1]hept-3-en-2-one; 2-(tert-butyl)cyclohexan-1-ol; Vethymine; 4-(4-hydroxy-3-methoxyphenyl)butan-2-one and mixtures thereof.

7. The composition according to Claim 2 comprising a malodor reduction material selected from the group consisting of 3-methoxy-7,7-dimethyl-10-methylenebicyclo[4.3.1]decane; Isobornyl isobutyrate; 3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl acetate; Octahydro-1H-4,7-methanoinden-5-yl acetate; Bornyl isobutyrate; beta-Patchoulline; (2,2-dimethoxyethyl)benzene; beta-Cedrene; alpha-Patchoulene; alpha-Gurjunene; alpha-Cubebene; Allo-aromadendrene; Thujopsene; Decahydro-3H-spiro[furan-2,5'-[4,7]methanoindene]; 1',1',5',5'-tetramethylhexahydro-2'H,5'H-spiro[[1,3]dioxolane-2,8'-[2,4a]methanonaphthalene]; 1',1',5',5'-tetramethylhexahydro-2'H,5'H-spiro[[1,3]dioxolane-2,8'-[2,4a]methanonaphthalene] K; (Z)-3-methyl-2-(pent-2-en-1-yl)cyclopent-2-en-1-one and mixtures thereof, preferably said composition comprises a material selected from para-Cymen-8-ol; 4-(tert-pentyl)cyclohexan-1-one; Octanal dimethyl acetal; Myrcene; Myrcenol; Myrcenyl acetate; Ocimenol; Nonyl alcohol; l-Limonene; (E)-1-(1-methoxypropoxy)hex-3-ene; Leaf acetal; 2-methyl-4-phenyl-1,3-dioxolane; Isomenthone; Isomenthone; 5-ethyl-4-hydroxy-2-methylfuran-3(2H)-one; 3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl acetate; d-Limonene; Diphenylmethane; Dihydro Linalool; delta-3-Carene; Decahydro-beta-naphthol; cis-Ocimene; cis-Limonene oxide; Caprylnitrile; Caprylic alcohol; Camphorquinone; Camphene; beta-Terpineol; beta-Selinene; beta-Pinene; beta-Patchoulline; beta-Cedrene; Benzyl-tert-butanol; Benzyl dimethyl carbinol; alpha-Thujone; alpha-Limonene; alpha-Fenchene; Allyl 2-(isopentyloxy)acetate; Acetaldehyde dipropyl acetal; 5-Isopropenyl-2-methyl-2-vinyltetrahydrofuran; 2-Phenoxyethanol; 2-Nonanol; 2,6-dimethyl-octanal; 1-Decanol; 1,2-Dihydrolinalool; Menthone; Phenethyl alcohol; Phenylacetaldehyde ethyleneglycol acetal; 6,6-dimethyl-2-methylenebicyclo[3.1.1]heptan-3-ol; p-Menth-3-en-1-ol; Propylene glycol; 4-methyl-2-phenyl-3,6-dihydro-2H-pyran; Spirodecane; Thujopsene; trans-beta-ocimene; trans-beta-Ocimene; Decahydro-3H-spiro[furan-2,5'-[4,7]methanoindene]; 4-(tert-pentyl)cyclohexan-1-one; Octanal, 3,7-dimethyl-; Octanal dimethyl

acetal; Myrcenol; Myroxide; Muguol; Methoxymelonal; Methoxycitronellal; Linalool; (Z)-hex-3-en-1-yl methyl carbonate; (E)-1-(1-methoxypropoxy)hex-3-ene; L-Carvone; Isopropylvinylcarbinol; Isopropyl 2-methylbutyrate; Isopentyrate; Isononanol; Isoamyl isobutyrate; Heptyl alcohol; Heliotropin; gamma-Terpinene; Fenchyl alcohol; Eucalyptol; d-p-8(9)-Menthen-2-one; Diphenylmethane; Dihydromyrcenol; Dihydroisophorone; Dihydrocarvone; Decahydro-beta-naphthol; Cosmene; 4-cyclohexyl-2-methylbutan-2-ol; Citronellyl nitrile; Citronellyl formate; cis-Pinane; Cinnamyl nitrile; Carvone; Carbitol; Caproyl alcohol; Cantryl; Camphor; Camphene; beta-Pinene epoxide; beta-Phellandrene; Benzylacetone; Benzyl alcohol; Anisyl acetate; Anisyl formate; alpha-Thujone; 2,5-Dimethyl-4-methoxy-3(2H)-furanone; Acetoin; 6,8-Diethyl-2-nonanol; 5-Methyl-3-heptanone; 3-Methyl-1,2-cyclopentanedione; 3-Methoxy-3-Methyl Butanol; 3,7-dimethyl-1-octanol; 2-Nonanol; 2-Methoxy-3-(1-methylpropyl)pyrazine; 2-isopropyl-N,2,3-trimethylbutyramide; 2-Isopropyl-5-methyl-2-hexenal; 2-Butoxyethanol; 1,4-Cineole; (S)-Verbenone; (R)-(-)-Linalool; (+)-alpha-Pinene; (+)-Carvone; (-)-alpha-Pinene; Methyl 2-methylbutyrate; p-Cymene; 1,2-dimethyl-3-(prop-1-en-2-yl)cyclopentan-1-ol; Racemic alpha-Pinene; S)-(+)-Linalool; Sabinene; Sabinene hydrate; 1-oxaspiro(4,5)decan-2-one; (Z)-5-methylheptan-3-one oxime; Tetrahydrogeranial; Tetrahydrolinalool; trans-2-tert-Butylcyclohexanol; trans-Dihydrocarvone; 2,2,5-trimethyl-5-pentylcyclopentan-1-one; 2-(tert-butyl)cyclohexan-1-ol and mixtures thereof.

8. The composition according to Claim 2 comprising a malodor reduction material selected from the group consisting of 3-methoxy-7,7-dimethyl-10-methylenebicyclo[4.3.1]decane; Isobornyl isobutyrate; 3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl acetate; Octahydro-1H-4,7-methanoinden-5-yl acetate; Bornyl isobutyrate; beta-Patchoulline; (2,2-dimethoxyethyl)benzene; beta-Cedrene; alpha-Patchoulene; alpha-Gurjunene; alpha-Cubebene; Allo-aromadendrene; Thujopsene; Decahydro-3H-spiro[furan-2,5'-[4,7]methanoindene]; 1',1',5',5'-tetramethylhexahydro-2'H,5'H-spiro[[1,3]dioxolane-2,8'-[2,4a]methanonaphthalene]; (2'S,4a'S,8a'S)-1',1',5',5'-tetramethylhexahydro-2'H,5'H-spiro[[1,3]dioxolane-2,8'-[2,4a]methanonaphthalene], (Z)-3-methyl-2-(pent-2-en-1-yl)cyclopent-2-en-1-one and mixtures thereof, preferably said materials comprise (2,2-dimethoxyethyl)benzene.

9. A composition comprising a malodor reduction material selected from the group consisting of 3-methoxy-7,7-dimethyl-10-methylenebicyclo[4.3.1]decane; Isobornyl isobutyrate; 3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl acetate; Octahydro-1H-4,7-methanoinden-5-yl acetate; Bornyl isobutyrate; beta-Patchoulline; beta-Cedrene; alpha-Patchoulene; alpha-

Gurjunene; alpha-Cubebene; Allo-aromadendrene; Thujopsene; Decahydro-3H-spiro[furan-2,5'-[4,7]methanoindene]; 1',1',5',5'-tetramethylhexahydro-2'H,5'H-spiro[[1,3]dioxolane-2,8'-[2,4a]methanonaphthalene]; 1',1',5',5'-tetramethylhexahydro-2'H,5'H-spiro[[1,3]dioxolane-2,8'-[2,4a]methanonaphthalene] K and mixtures thereof.

10. A composition comprising a malodor reduction material selected from the group consisting of 3-methoxy-7,7-dimethyl-10-methylenebicyclo[4.3.1]decane; Oxyoctaline formate; 2,2,6,8-tetramethyl-1,2,3,4,4a,5,8,8a-octahydronaphthalen-1-ol; Nootkatone; Khusimol; Iso3-methylcyclopentadecan-1-one; Isoeugenyl benzyl ether; 1-((2S,3S)-2,3,8,8-tetramethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-yl)ethan-1-one; Isobornyl isobutyrate; 2,3-dihydro-3,3-dimethyl-1H-indene-5-propanal; 3-(3,3-dimethyl-2,3-dihydro-1H-inden-5-yl)propanal; gamma-Eudesmol; 4,6,6,7,8,8-hexamethyl-1,3,4,6,7,8-hexahydrocyclopenta[g]isochromene; 8,8-dimethyl-3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl acetate; Octahydro-1H-4,7-methanoinden-5-yl acetate; 3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl butyrate; 3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-5-yl isobutyrate; Curzerene; (E)-cycloheptadec-9-en-1-one; Cedryl formate; Cedryl acetate; Cedrol; 5-methyl-1-(2,2,3-trimethylcyclopent-3-en-1-yl)-6-oxabicyclo[3.2.1]octane; Caryophyllene alcohol acetate; Caryolan-1-ol; Bornyl isobutyrate; beta-Santalol; beta-Patchoulline; beta-Himachalene Oxide; beta-Cedrene; Anisyl phenylacetate; 2,2,6,6,7,8,8-heptamethyldecahydro-2H-indeno[4,5-b]furan; alpha-Vetivone; alpha-Santalol; alpha-Patchoulene; alpha-Gurjunene; alpha-Eudesmol; alpha-Cubebene; alpha-Agarofuran; Allo-aromadendrene; 7-eip-alpha-Eudesmol; 7-Acetyl-1,1,3,4,4,6-hexamethyltetralin; 5-Cyclohexadecenone; 3-Thujopsanone; 10-epi-gamma-Eudesmol; 3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl propionate; 5-Acetyl-1,1,2,3,3,6-hexamethylindan; Patchouli alcohol; 3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl pivalate; (2R,4a'R,8a'R)-3,7'-dimethyl-3',4',4a',5',8',8a'-hexahydro-1'H-spiro[oxirane-2,2'-[1,4]methanonaphthalene]; 2,2,7,9-tetramethylspiro(5.5)undec-8-en-1-one; (Z)-2-ethyl-4-(2,2,3-trimethylcyclopent-3-en-1-yl)but-2-en-1-ol; Sclareol oxide; Spathulenol; 1-(spiro[4.5]dec-7-en-7-yl)pent-4-en-1-one; Thujopsene; Tricyclone; Valerianol; 1-((3R,3aR,7R,8aS)-3,6,8,8-tetramethyl-2,3,4,7,8,8a-hexahydro-1H-3a,7-methanoazulen-5-yl)ethan-1-one; Methyl (Z)-2-(((2,4-dimethylcyclohex-3-en-1-yl)methylene)amino)benzoate; Vetivert Acetate; Decahydro-3H-spiro[furan-2,5'-[4,7]methanoindene]; (1aR,4S,4aS,7R,7aS,7bS)-1,1,4,7-tetramethyldecahydro-1H-cyclopropa[e]azulen-4-ol; 3,5,5,6,7,8,8-heptamethyl-5,6,7,8-tetrahydronaphthalene-2-carbonitrile; (1S,2S,3S,5R)-2,6,6-trimethylspiro[bicyclo[3.1.1]heptane-3,1'-cyclohexan]-2'-en-4'-one; 1',1',5',5'-tetramethylhexahydro-2'H,5'H-spiro[[1,3]dioxolane-2,8'-

[2,4a]methanonaphthalene]; 1',1',5',5'-tetramethylhexahydro-2'H,5'H-spiro[[1,3]dioxolane-2,8'-[2,4a]methanonaphthalene] K; Hydroxymethyl isolongifolene; Decyl anthranilate and mixtures thereof.

11. A composition comprising a malodor reduction material selected from the group consisting of Isopimpinellin; Iso3-methylcyclopentadecan-1-one; 3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl acetate; (Z)-6-ethylideneoctahydro-2H-5,8-methanochromen-2-one; (E)-cycloheptadec-9-en-1-one; beta-Patchoulline; beta-Cedrene; 5-Cyclohexadecenone; 1-(spiro[4.5]dec-7-en-7-yl)pent-4-en-1-one; Thujopsene; Decahydro-3H-spiro[furan-2,5'-[4,7]methanoindene] and mixtures thereof, preferably said materials are selected from 3a,4,5,6,7,7a-hexahydro-1H-4,7-methanoinden-6-yl acetate; beta-Patchoulline; beta-Cedrene; Decahydro-3H-spiro[furan-2,5'-[4,7]methanoindene] and mixtures thereof.

12. A composition according to Claims 1 or 2 wherein said malodor reduction material is not a material selected from the group consisting of geranyl nitrile; helional; nonanal; linalool; (S)-(+)-linalool; (R)-(-)-linalool; nerol; tetrahydrolinalool; 2-phenylethyl acetate; eugenol; ethyl linalool; allyl heptoate; agrumen nitrile; citronitrile; 2,2-dimethyl-3-(m-tolyl)propan-1-ol; 2-methyl-5-phenylpentan-1-ol; dodecanenitrile; 2-heptylcyclopentan-1-one; methyl nonyl acetaldehyde; 3-(2-ethylphenyl)-2,2-dimethylpropanal; (Z)-1-(2,6,6-trimethylcyclohex-2-en-1-yl)but-2-en-1-one; (R,E)-2-methyl-4-(2,2,3-trimethylcyclopent-3-en-1-yl)but-2-en-1-ol; 4-(tert-butyl)cyclohexyl acetate; 1-cyclohexylethyl (E)-but-2-enoate; allyl 2-(cyclohexyloxy)acetate; alpha terpinyl acetate; beta terpinyl acetate; gamma terpinyl acetate; methyl dodecyl ether ; 2,4-dimethyl-4,4a,5,9b-tetrahydroindeno[1,2-d][1,3]dioxine; cinnamyl isobutyrate; (E)-2-methyl-4-(2,6,6-trimethylcyclohex-1-en-1-yl)but-2-enal; gamma methyl ionone; ethyl 2,3,6-trimethyl cyclohexyl carbonate ethyl 2,3,6-trimethyl cyclohexyl carbonate; Citral diethyl acetal; Dimethoxycyclododecane; 1-((2S,3S)-2,3,8,8-tetramethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-yl)ethan-1-one; oxacyclohexadecan-2-one; 4,6,6,7,8,8-hexamethyl-1,3,4,6,7,8-hexahydrocyclopenta[g]isochromene; Ethylene brassylate; Methyl (Z)-2-((3-(4-(tert-butyl)phenyl)-2-methylpropylidene)amino)benzoate; 4,7-Methano-1H-inden-5-ol, 3a,4,5,6,7,7a-hexahydro-, 5-acetate; cedryl methyl ether; vetivert acetate; 1-((3R,3aR,7R,8aS)-3,6,8,8-tetramethyl-2,3,4,7,8,8a-hexahydro-1H-3a,7-methanoazulen-5-yl)ethan-1-one; Benzophenone; Farnesol; trans,trans-farnesol; 3-(3-isopropylphenyl)butanal; 2,6,10-trimethylundec-9-enal; 3-(4-(tert-butyl)phenyl)propanal; 3-(4-isopropylphenyl)-2-methylpropanal; Citronellal (l); Citronellal (d); (E)-4,8-dimethyldeca-4,9-dienal; Pino Acetaldehyde; 3-(4-(tert-butyl)phenyl)-2-

methylpropanal; Cinnamic aldehyde; Citral; Geranial; MethoxyMelonal; o-methoxycinnamaldehyde; (E)-4-((3aS,7aS)-octahydro-5H-4,7-methanoinden-5-ylidene)butanal; Methyl Octyl Acetaldehyde; 3-(4-methoxyphenyl)-2-methylpropanal; 5-methoxyoctahydro-1H-4,7-methanoindene-2-carbaldehyde; Iso Cyclocitral; Octanal; 2-Undecenal; 10-Undecenal; Trans-trans-2,6-Nonadienal; Trans-2,cis-6-nondienal; Heliotropin; Hexyl Cinnamic aldehyde; p-methyl-alpha- pentylcinnamaldehyde; Alpha-methyl cinnamaldehyde; 3,4-dimethoxybenzaldehyde; Myrtenal; Perillaldehyde; Maceal; Methyl palmitate; Methyl iso eugenol and mixtures thereof.

13. A composition according to any preceding claim, said malodor reduction composition being a consumer product, said consumer comprising a total of, based on total consumer product weight, from 0.0001% to 100% of one or more of said malodor reduction materials and an adjunct material.

14. A composition according to Claim 13, said composition comprising a plastic film said plastic film comprising LLDPE, LDPE, HDPE, and/or compostable film, preferably said plastic film comprises 0.5 mg to 100 mg of said malodor reduction composition per 20 grams of said plastic film, more preferably said malodor reduction composition is present in the amount of 5 mg to 30 mg per 20 grams of said plastic film, most preferably said malodor reduction composition is present in the amount of 5 mg to 15 mg per 20 grams of said plastic film.

15. A method of controlling malodors comprising contacting a material comprising a malodor with a composition according to any preceding claim and mixtures thereof, preferably said contacting step comprises contacting said material containing a malodor with 1 mg to 50 mg, preferably from 3 mg to 30 mg, more preferably from 5 mg to 20 mg of said composition per 20 grams of said material containing a malodor.