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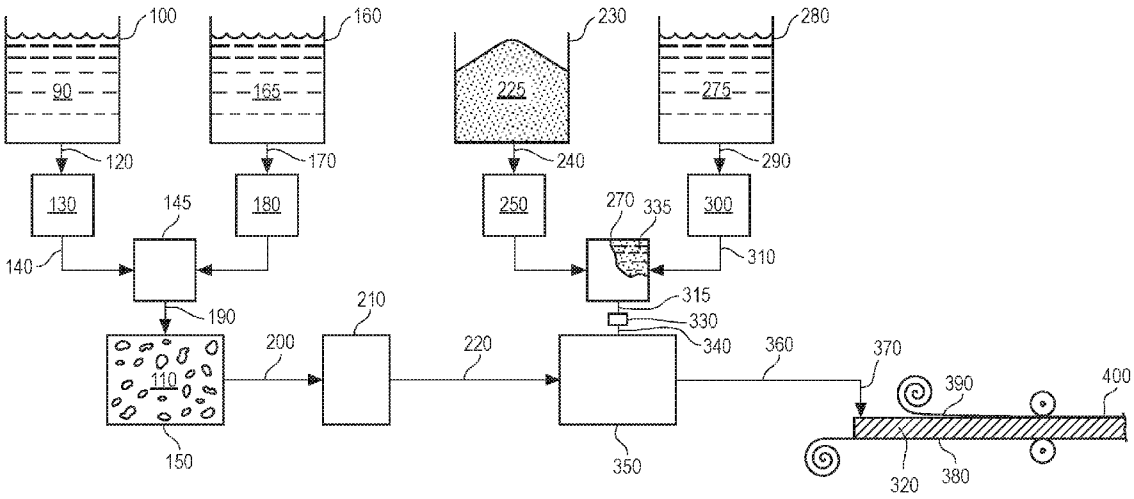
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(54) Title: ALKYL SULFATE / ALKYL ETHER SULFATE GYPSUM FOAMER

Fig. 1



(57) Abstract: A surfactant composition is disclosed comprising a first alkyl sulfate surfactant, optionally a second alkyl sulfate surfactant, and optionally an alkyl ether sulfate. The first and second alkyl sulfate surfactants have Formula (1): R^1-OSO_3^{-} $^{+}M^1$ (1) and the alkyl ether sulfate has Formula (2): R^2-$(OCH_2CH_2)yOSO_3^{-}$ $^{+}M^2$ (2) in which R^1 and R^2 are independently selected linear or branched alkyl or a combination thereof having from 6 to 14 carbon atoms, y has an average value from 0.1 to 5, and M^1 and M^2 are cations independently selected from sodium, calcium, ammonium, or a combination of two or all of these. Use of the composition as a foaming agent for gypsum slurries, and of the gypsum slurries for formation of gypsum boards, are disclosed.

[Continued on next page]

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ALKYL SULFATE / ALKYL ETHER SULFATE GYPSUM FOAMER

BACKGROUND

[0001] This application claims the priority of U.S. Provisional Ser. No. 62/482,416, filed April 6, 2017, which is incorporated by reference in its entirety to provide continuity of disclosure.

[0002] The disclosed technology relates generally to the manufacture of gypsum wallboard, and more particularly to a surfactant composition used to foam the gypsum slurry incorporated into the gypsum wallboard between the facing sheets. The purpose of foaming the gypsum slurry is to reduce the weight of the gypsum wallboard while still enabling it to perform its functions as a building material.

[0003] U.S. Patent Application Publication 2008/0223258 A1 ("Bruce et al.") provides a description of preexisting knowledge in the formation of gypsum wallboard using foaming agents. Other patent documents providing background in this area are US 4,156,615; US 5,085,929; US 5,116,671; US 5,240,639; US 5,643,510; US 5,714,001; US 7,033,431; US 7,220,373; WO2014172469; and WO2016205170. Each of these patent documents is incorporated by reference in its entirety.

SUMMARY

[0004] In a first embodiment, a surfactant composition is contemplated comprising:

- from 70 to 100 wt.% by total surfactant weight of a linear or branched alkyl sulfate; and
- from 0 to 30 wt.% by total surfactant weight of a linear or branched alkyl ether sulfate.

[0005] The linear or branched alkyl sulfate comprises the structure of Formula (1):

$$R^1\text{-}OSO_3^{-}\ ^{+}M^1 \qquad (1)$$

in which R^1 is linear or branched alkyl having from 6 to 14 carbon atoms and M^1 is a cation. The alkyl ether sulfate comprises the structure of Formula (2):

$$R^2\text{-}(OCH_2CH_2)_yOSO_3^- {}^+M^2 \qquad (2)$$

in which R^2 is branched alkyl or linear alkyl or a combination thereof having from 6 to 14 carbon atoms, y has an average value from 0.1 to 5, preferably from 0.8 to 3, and M^2 is a cation. M^1 and M^2 can be independently selected, and can be the same or different.

[0006] In a second embodiment, a surfactant composition is contemplated comprising:

- from 91 to 99.5 wt.% by total surfactant weight of a linear or branched alkyl sulfate having the structure of Formula (1), an average number of carbon atoms, n_m, in R^1 between 10 and 11, and the following proportions by weight of species of Formula (1):
  - 7% to 12% in which R^1 is straight or branched C_9H_{19};
  - 42% to 59% in which R^1 is straight or branched $C_{10}H_{21}$;
  - 15% to 29% in which R^1 is straight or branched $C_{11}H_{23}$;
  - 7% to 15% in which R^1 is straight or branched $C_{12}H_{25}$; and
- from 0.5 to 9 wt.% by total surfactant weight of a linear or branched alkyl ether sulfate having the structure of Formula (2), an average number of carbon atoms, n_m, in R^2 between 10 and 11, and an average value of y from 0.5 to 2.5.

[0007] In a third embodiment, a surfactant composition is contemplated comprising:

- from 97.5 to 99.5 wt.% by total surfactant weight of a linear or branched alkyl sulfate having the structure of Formula (1), an average number of carbon atoms, n_m, in R^1 between 9 and 10, and the following proportions by weight of species of Formula (1):
  - 25% to 47% in which R1 is straight or branched C_8H_{17};
  - 38% to 55% in which R^1 is straight or branched $C_{10}H_{21}$;
  - 12% to 20% in which R^1 is straight or branched $C_{12}H_{25}$; and

- from 0.5 to 2.5 wt.% by total surfactant weight of a linear or branched alkyl ether sulfate having the structure of Formula (2), an average number of carbon atoms, n_m, in R^2 between 9 and 10, and an average value of y from 0.5 to 2.5.

[0008] A gypsum slurry according to any of the first, second, and third embodiments is contemplated comprising gypsum, water, and the surfactant composition of the embodiment.

[0009] A gypsum board according to any of the first, second, and third embodiments is contemplated comprising a core and facing sheets, the core comprising the gypsum slurry according to the embodiment. The core has multiple foam voids, which are also sometimes referred to as bubbles, with the same meaning.

[0010] Still other aspects and variations are also provided, as will be evident to a person of ordinary skill in the gypsum wallboard manufacturing art, after considering this specification and the other knowledge possessed by such a person.

BRIEF DESCRIPTION OF DRAWING FIGURES

[0011] FIG. 1 is a schematic diagram of a gypsum wallboard manufacturing line according to any embodiment.

[0012] The following reference characters are used in the FIG. 1:

90	First foam water composition
100	Vessel
110	Foam
120	Pipe
130	Fluid meter
140	Outlet pipe
145	Mixer
150	Foam generator
160	Vessel

165	Second foam water composition
170	Pipe
180	Fluid meter
190	Pipe
200	Pipe or trough
210	Foam feeder
220	Pipe or trough
225	Stucco
230	Bin
240	Chute
250	Dry material feeder
270	Mixing vessel
275	Gauge water
280	Tank
290	Drain
300	Metering feeder
310	Pipe
315	Pipe
320	Foamed gypsum slurry
330	Metering feeder
335	Still gypsum slurry
340	Pipe
350	Mixing vessel
360	Vessel or trough
370	Depositing point
380	Running lower web
390	Running upper web
400	Gypsum board

DETAILED DESCRIPTION

[0013] The surfactant compositions of the first, second, or third embodiment briefly described above comprise one or more surfactants, water, and optionally other ingredients. The proportions in the net surfactant composition to be combined with the stucco, from one or more feed streams, optionally of different composition if from more than one feed stream, can be from 70 to 100 wt.%, optionally 90 to 100 wt.%, optionally 93 to 99 wt.% by total surfactant weight of a linear or branched alkyl sulfate, which optionally can be a mixture of two or more linear or branched alkyl sulfates having an alkyl chain length of 6 to 14 carbon atoms; and from 0 to 30 wt.%, optionally 0 to 10 wt.%, optionally 1 to 7 wt.% by total surfactant weight of a linear or branched alkyl ether sulfate, which optionally can be a mixture of two or more linear or branched alkyl ether sulfates having an alkyl chain length of 6 to 14 carbon atoms.

[0014] "By total surfactant weight" means that these proportions only reflect the amount of these particular active surfactants, not including any amount of water, gypsum, or non-surfactant ingredients present in the surfactants as supplied or as formulated.

[0015] The alkyl sulfate of the first embodiment comprises the structure of Formula (1):

$$R^1\text{-}OSO_3^{-}\ ^{+}M^1 \quad (1)$$

in which R^1 is linear or branched alkyl having from 6 to 14 carbon atoms, and M^1 is a cation. Alternatively in this first embodiment, R^1 has at least 9 carbon atoms, alternatively at least 10 carbon atoms, alternatively at least 11 carbon atoms, alternatively at most about 14 carbon atoms. Specific alkyl sulfates of the first embodiment contemplated here and commercially available are C_8, $C_{8\text{-}10}$, C_9, C_{10}, $C_{10\text{-}12}$, $C_{12\text{-}14}$, or $C_{9\text{-}11}$ alkyl sulfates, and mixtures of any two or more of these. Any of these alkyl sulfate species can be linear, branched (as shown and described in more detail in WO2016205170), or a combination of linear and branched species.

[0016] Broadly speaking, linear R^1 or any branching of R^1 is contemplated in the first embodiment.

[0017] Any suitable cation may be used, including but not limited to calcium, sodium, ammonium, or any combination of two or more of these.

[0018] The alkyl ether sulfate of the first embodiment contemplated here comprises the structure of Formula (2):

$$R^2\text{-}(OCH_2CH_2)_yOSO_3^- {}^+M^2 \quad (2)$$

in which R^2 is branched alkyl or linear alkyl or a combination thereof having from 6 to 14 carbon atoms, optionally 6 to 11 carbon atoms, y has an average value from 0.1 to 5, optionally 0.8 to 3, optionally 1.8 to 2.8, and M^2 is any suitable cation, including but not limited to calcium, sodium, ammonium, or any combination of two or more of these.

[0019] Specific alkyl ether sulfates of the first embodiment contemplated here can be made by ethoxylating the corresponding alkyl sulfates described above to the desired degree, using well-known technology. Specifically contemplated here are C_8, $C_{8\text{-}10}$, C_9, C_{10}, $C_{10\text{-}12}$, $C_{12\text{-}14}$, or $C_{9\text{-}11}$ alkyl ether sulfates, and mixtures of any two or more of these. The alkyl moiety of any of these alkyl ether sulfate species can be linear, branched (as shown and described in more detail in WO2016205170), or a combination of linear and branched species.

[0020] M^1 and M^2 of the first embodiment are independently selected, meaning they can be the same or different. Optionally, $M^1$and M^2 can each be ammonium (NH_4^+). Optionally, M^1 and M^2 can each be sodium (Na^+). Alternatively in the first embodiment M^1 is sodium and M^2 is ammonium. Alternatively in the first embodiment M^1 is ammonium and M^2 is sodium.

[0021] A second embodiment is like the first embodiment, except that the contemplated surfactant composition comprises:

- from 91 to 99.5 wt.% by total surfactant weight of a linear or branched alkyl sulfate having the structure of Formula (1), an average number of carbon atoms, n_m, in R^1 between 10 and 11, and the following proportions by weight of species of Formula (1):
  - 7% to 12% in which R^1 is straight or branched C_9H_{19};
  - 42% to 59% in which R^1 is straight or branched $C_{10}H_{21}$;

- 15% to 29% in which R^1 is straight or branched $C_{11}H_{23}$;
- 7% to 15% in which R^1 is straight or branched $C_{12}H_{25}$; and

- from 0.5 to 9 wt.% by total surfactant weight of a linear or branched alkyl ether sulfate having the structure of Formula (2), an average number of carbon atoms, n_m, in R^2 between 10 and 11, and an average value of y from 0.5 to 2.5.

[0022] A third embodiment is like the first and second embodiments, except that the contemplated surfactant composition comprises:

- from 97.5 to 99.5 wt.% by total surfactant weight of a linear or branched alkyl sulfate having the structure of Formula (1), an average number of carbon atoms, n_m, in R^1 between 9 and 10, and the following proportions by weight of species of Formula (1):
  - 25% to 47% in which R1 is straight or branched C_8H_{17};
  - 38% to 55% in which R^1 is straight or branched $C_{10}H_{21}$;
  - 12% to 20% in which R^1 is straight or branched $C_{12}H_{25}$; and
- from 0.5 to 2.5 wt.% by total surfactant weight of a linear or branched alkyl ether sulfate having the structure of Formula (2), an average number of carbon atoms, n_m, in R^2 between 9 and 10, and an average value of y from 0.5 to 2.5.

[0023] A gypsum slurry of any embodiment is made by combining stucco, water, and a surfactant comprising the corresponding embodiment of the surfactant composition described above. “Gypsum” technically refers to the hydrated mineral that can either be mined or produced by combining calcined gypsum – stucco – with water. Since the present compositions contain water, the slurry is specified here as a gypsum slurry, even though, if still not fully cured, some of this mineral persists as stucco. The range of proportions of stucco addition is well known to those skilled in the art. For example, useful proportions of stucco (for example, about 72 wt.%), foaming surfactant (typically from about 0.005 wt.% to about 0.03 wt.%), and water (balance, for example about 28 wt.%) can be used. A person of ordinary skill can vary and adapt these

proportions and ingredients to particular processing conditions and desired compositions.

[0024] Various optional ingredients can be employed in the present gypsum slurries of any embodiment. Some examples of such optional ingredients, including many mentioned in ¶¶ 0075-0081 of Bruce et al., incorporated by reference, are slurry set retarders or accelerators (such as finely ground gypsum and/or potassium sulfate), ball mill accelerators (for example containing starch or dextrose), water-reducing agents, dispersants, moisture-resistant agents, fire-retardant agents, paper fiber and/or chopped glass fibers, boric acid, or other ingredients. Among the effects that these additives are known to achieve are: a reduction in the amount of water required to produce a workable gypsum board core slurry; a reduced slurry viscosity; the retardation of the onset of setting of the slurry to a solid gypsum board core until after the fully formulated foamed gypsum board core has been formed into its final width; the acceleration of the setting of the calcined gypsum slurry on the setting belt; an increased resistance to product over-drying during manufacture; an increased resistance of the final product to moisture and fire; and an increased resistance to damage during shipping, handling and the installation of the manufactured gypsum board.

[0025] A gypsum board 400 of any embodiment is contemplated comprising a foamed gypsum core 320 and facing sheets 380 and 390 as shown in FIG. 1. The core 320 comprises gypsum plus any surfactant composition embodiment described above. The core 320 has multiple foam voids.

[0026] A first foam water composition 90 of any embodiment is provided, for example disposed in a vessel 100, comprising 0.05 to 1 wt.% active weight of an alkyl sulfate surfactant. The alkyl sulfate surfactant of the first foam water composition comprises a linear or branched alkyl sulfate surfactant as described above. The first foam water composition can thus be a pure linear alkyl sulfate or a mixture of linear alkyl sulfate with a branched alkyl sulfate, optionally further combined with other materials. One specific example of an additional material contemplated here is one or more alkyl ether

sulfates, which usually is combined in a minor proportion relative to the amount of one or more alkyl sulfates.

[0027] A second foam water composition 165 of any embodiment is also provided, for example disposed in a vessel 160, which has a composition somewhat different in proportions or ingredients from the first foam water composition, so they can be mixed in different proportions during production to control production specifications such as median foam void diameter. For example, it has been found that using a surfactant mixture having more alkyl sulfate surfactant and less alkyl ether sulfate surfactant, or a less-highly-ethoxylated alkyl ether sulfate, or a greater proportion of branched alkyl sulfate, or a shorter chain alkyl sulfate, may produce larger median foam void diameters.

[0028] It is also contemplated that the water used to make the foam water compositions may equally be added before or after the linear and branched alkyl sulfate surfactants, and/or an alkyl ether sulfate surfactant or other ingredients, are mixed. Regardless of the order of addition of the water, surfactants, or other ingredients, this process step is regarded as combining the first and second foam water compositions.

[0029] The first foam water composition 90 of any embodiment in the tank 100 can be exhausted through a pipe 120, metered in a specific proportion at any given time by a fluid meter 130, and passed by an outlet pipe 140 to a mixer 145. The second foam water composition 165 in the tank 160 can be exhausted through a pipe 170, metered in a specific proportion at any given time by a fluid meter 180, and passed to the mixer 145. The mixer 145 mixes the first and second foam water composition to form a final or net foam water composition, and passes the final or net foam water composition via a pipe 190 to the foam generator 150. The foam generator 150 employs mechanical energy, such as rotation of an impeller, to generate foam 110 from the foam water.

[0030] Alternatively in any embodiment, the first and second foam water compositions can be foamed independently, for example in separate foam generators, and the respective streams of foam combined either before or as the foam and stucco are mixed in the slurry mixer.

[0031] A third foam water composition can also be prepared and mixed into the gypsum slurry in any embodiment. The third foam water composition optionally can be combined with one or both of the first and second foam water compositions as a still composition or as separately generated foam. Alternatively, the third foam water composition can be added directly to the gypsum slurry mixer in the form of foam.

[0032] Separately, a gypsum slurry is formed by combining the foam 110, stucco 225, optionally gauge water 275, and optionally minor proportions of other ingredients. Any method, order of steps, or equipment can be used.

[0033] Referring again to FIG. 1, when forming a gypsum slurry, stucco 225 provided in a suitable bin 230 can be conveyed via a chute 240 by a dry material feeder 250, such as a screw feeder, to a mixing vessel 270. Gauge water 275 provided in a suitable tank 280 can be conveyed via a drain 290, a metering feeder 300, and a pipe 310 to the mixing vessel 270, optionally an in-line or other type of continuous mixer, where the stucco 225 and gauge water 275 can be mixed to form a still (unfoamed) gypsum slurry 335.

[0034] The still gypsum slurry 335 can leave the mixing vessel 270 via a pipe 315, a metering feeder 330, and a pipe 340 to a further mixing vessel 350. The foam 110 can be conveyed via a pipe or trough 200, a foam feeder 210, and a pipe or trough 220 to the further mixing vessel 350, which for example can be a pin mixer, a pinless mixer, or any other useful type of slurry mixer. The further mixing vessel 350 is operated to mix the foam 110 and the still gypsum slurry 335 to form a foamed gypsum slurry 320.

[0035] Alternatively, the stucco 225, gauge water 275, and foam 110 could be combined in a single mixer to form a foamed gypsum slurry 320.

[0036] Alternatively, the foam water 90 and the foam water 165 could be separately foamed and the two streams of foam could be mixed together either upstream of or directly with the stucco 225 and gauge water 275 in a single mixer 350 to form a foamed gypsum slurry 320.

[0037] The foamed gypsum slurry 320 can leave the further mixing vessel 350 via a pipe or trough 360 and can be deposited at the deposition point 370 on a running lower

web 380 of paper or another type of facing sheet. The foamed gypsum slurry can be sandwiched to form a gypsum board 400 by applying a running upper web 390 of paper or other material on the foamed gypsum slurry. The foamed gypsum slurry 320, contained between its facing sheets defined by the running lower web 380 and running upper web 390, is then cured, dried, and cut to form gypsum wallboards or another product.

[0038] Alternatively, the apparatus and methods described in Bruce et al., incorporated by reference above, can be used.

[0039] Also contemplated in any embodiment is a new method of changing the median foam void diameter in a gypsum board while forming the board. The method can be used, for example, to correct a deviation from the intended median foam void diameter, preferably while the board forming line remains operating to minimize or eliminate down time.

[0040] The method can be carried out as follows in any embodiment. First and second foam water compositions 90 and 165 and stucco 225 as described above are provided, again optionally including additional ingredients. A foamed gypsum slurry 320 is formed comprising the first foam water composition 90, the second foam water composition 165, and stucco 225 and delivered at the delivery point 270. While the foamed gypsum slurry 320 is being formed, the proportions of the first and second foam water compositions 90 and 165 are changed to change the median foam void diameter of the gypsum slurry, and thus the median foam void diameter in the gypsum board 400.

WORKING EXAMPLES

[0041] The following examples illustrate the practice of the present technology of any embodiment without limiting the technology.

Protocol for Gypsum Slurry Formation

[0042] Foamers are provided, each made from one or more alkyl sulfates and in some cases one or more alkyl ether sulfates having the respective alkyl chain lengths, proportions, and one of the alternative ranges or degrees of ethoxylation specified in

Tables 1-15. (Range A or B and Species C, D, or E in Table 15 are alternative proportions of ethoxylation specified for each listed species.) Thus the row identified as Species 1 of Table 1 provides five different species, respectively 1A, 1B, 1C, 1D, and 1E, as do the other numbered species in the respective rows of Tables 1-15.

[0043] To prepare foam water, the selected gypsum foaming surfactant (sometimes referred to as a "foamer") is combined with room temperature tap water in suitable proportions, for example, from about 0.005 wt.% to about 0.03 wt.% surfactant (by weight of the complete gypsum slurry). Separately, gauging water is prepared by combining, for example, tap water, a retarder, and a dispersant in suitable proportions.

[0044] The dry ingredients, for example stucco, boric acid, a ball mill accelerator (BMA) containing 5% dextrose, and starch are mixed in suitable proportions.

[0045] To prepare the gypsum slurry, the foam water and dry ingredients are combined.

Table 1

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		6	Range A	Range B	Species C	Species D	Species E
1	30%	70%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2	31%	69%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3	32%	68%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4	33%	67%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5	34%	66%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6	35%	65%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
7	36%	64%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
8	37%	63%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
9	38%	62%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
10	39%	61%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
11	40%	60%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
12	41%	59%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
13	42%	58%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
14	43%	57%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 1

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		6	Range A	Range B	Species C	Species D	Species E
15	44%	56%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
16	45%	55%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
17	46%	54%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
18	47%	53%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
19	48%	52%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
20	49%	51%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
21	50%	50%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
22	51%	49%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
23	52%	48%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
24	53%	47%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
25	54%	46%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
26	55%	45%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
27	56%	44%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
28	57%	43%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
29	58%	42%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
30	59%	41%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
31	60%	40%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
32	30%	69.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
33	31%	68.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
34	32%	67.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
35	33%	66.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
36	34%	65.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
37	35%	64.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
38	36%	63.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
39	37%	62.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
40	38%	61.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
41	39%	60.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
42	40%	59.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
43	41%	58.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
44	42%	57.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
45	43%	56.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
46	44%	55.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
47	45%	54.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
48	46%	53.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 1

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		6	Range A	Range B	Species C	Species D	Species E
49	47%	52.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
50	48%	51.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
51	49%	50.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
52	50%	49.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
53	51%	48.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
54	52%	47.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
55	53%	46.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
56	54%	45.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
57	55%	44.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
58	56%	43.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
59	57%	42.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
60	58%	41.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
61	59%	40.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
62	60%	39.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
63	30%	69%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
64	31%	68%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
65	32%	67%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
66	33%	66%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
67	34%	65%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
68	35%	64%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
69	36%	63%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
70	37%	62%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
71	38%	61%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
72	39%	60%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
73	40%	59%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
74	41%	58%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
75	42%	57%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
76	43%	56%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
77	44%	55%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
78	45%	54%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
79	46%	53%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
80	47%	52%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
81	48%	51%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
82	49%	50%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 1

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10	6	Range A	Range B	Species C	Species D	Species E
83	50%	49%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
84	51%	48%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
85	52%	47%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
86	53%	46%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
87	54%	45%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
88	55%	44%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
89	56%	43%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
90	57%	42%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
91	58%	41%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
92	59%	40%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
93	60%	39%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
94	30%	68.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
95	31%	67.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
96	32%	66.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
97	33%	65.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
98	34%	64.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
99	35%	63.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
100	36%	62.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
101	37%	61.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
102	38%	60.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
103	39%	59.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
104	40%	58.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
105	41%	57.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
106	42%	56.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
107	43%	55.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
108	44%	54.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
109	45%	53.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
110	46%	52.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
111	47%	51.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
112	48%	50.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
113	49%	49.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
114	50%	48.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
115	51%	47.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
116	52%	46.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 1

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		6	Range A	Range B	Species C	Species D	Species E
117	53%	45.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
118	54%	44.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
119	55%	43.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
120	56%	42.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
121	57%	41.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
122	58%	40.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
123	59%	39.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
124	60%	38.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
125	30%	68%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
126	31%	67%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
127	32%	66%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
128	33%	65%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
129	34%	64%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
130	35%	63%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
131	36%	62%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
132	37%	61%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
133	38%	60%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
134	39%	59%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
135	40%	58%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
136	41%	57%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
137	42%	56%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
138	43%	55%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
139	44%	54%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
140	45%	53%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
141	46%	52%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
142	47%	51%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
143	48%	50%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
144	49%	49%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
145	50%	48%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
146	51%	47%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
147	52%	46%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
148	53%	45%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
149	54%	44%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
150	55%	43%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 1

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		6	Range A	Range B	Species C	Species D	Species E
151	56%	42%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
152	57%	41%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
153	58%	40%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
154	59%	39%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
155	60%	38%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
156	30%	67.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
157	31%	66.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
158	32%	65.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
159	33%	64.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
160	34%	63.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
161	35%	62.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
162	36%	61.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
163	37%	60.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
164	38%	59.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
165	39%	58.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
166	40%	57.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
167	41%	56.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
168	42%	55.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
169	43%	54.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
170	44%	53.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
171	45%	52.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
172	46%	51.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
173	47%	50.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
174	48%	49.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
175	49%	48.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
176	50%	47.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
177	51%	46.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
178	52%	45.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
179	53%	44.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
180	54%	43.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
181	55%	42.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
182	56%	41.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
183	57%	40.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
184	58%	39.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 1

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		6	Range A	Range B	Species C	Species D	Species E
185	59%	38.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
186	60%	37.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
187	30%	67%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
188	31%	66%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
189	32%	65%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
190	33%	64%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
191	34%	63%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
192	35%	62%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
193	36%	61%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
194	37%	60%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
195	38%	59%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
196	39%	58%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
197	40%	57%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
198	41%	56%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
199	42%	55%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
200	43%	54%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
201	44%	53%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
202	45%	52%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
203	46%	51%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
204	47%	50%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
205	48%	49%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
206	49%	48%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
207	50%	47%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
208	51%	46%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
209	52%	45%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
210	53%	44%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
211	54%	43%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
212	55%	42%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
213	56%	41%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
214	57%	40%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
215	58%	39%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
216	59%	38%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
217	60%	37%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
218	30%	66.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 1

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		6	Range A	Range B	Species C	Species D	Species E
219	31%	65.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
220	32%	64.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
221	33%	63.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
222	34%	62.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
223	35%	61.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
224	36%	60.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
225	37%	59.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
226	38%	58.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
227	39%	57.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
228	40%	56.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
229	41%	55.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
230	42%	54.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
231	43%	53.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
232	44%	52.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
233	45%	51.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
234	46%	50.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
235	47%	49.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
236	48%	48.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
237	49%	47.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
238	50%	46.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
239	51%	45.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
240	52%	44.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
241	53%	43.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
242	54%	42.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
243	55%	41.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
244	56%	40.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
245	57%	39.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
246	58%	38.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
247	59%	37.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
248	60%	36.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
249	30%	66%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
250	31%	65%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
251	32%	64%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
252	33%	63%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 1

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		6	Range A	Range B	Species C	Species D	Species E
253	34%	62%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
254	35%	61%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
255	36%	60%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
256	37%	59%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
257	38%	58%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
258	39%	57%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
259	40%	56%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
260	41%	55%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
261	42%	54%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
262	43%	53%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
263	44%	52%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
264	45%	51%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
265	46%	50%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
266	47%	49%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
267	48%	48%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
268	49%	47%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
269	50%	46%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
270	51%	45%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
271	52%	44%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
272	53%	43%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
273	54%	42%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
274	55%	41%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
275	56%	40%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
276	57%	39%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
277	58%	38%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
278	59%	37%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
279	60%	36%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
280	30%	65.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
281	31%	64.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
282	32%	63.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
283	33%	62.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
284	34%	61.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
285	35%	60.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
286	36%	59.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 1

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		6	Range A	Range B	Species C	Species D	Species E
287	37%	58.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
288	38%	57.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
289	39%	56.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
290	40%	55.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
291	41%	54.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
292	42%	53.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
293	43%	52.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
294	44%	51.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
295	45%	50.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
296	46%	49.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
297	47%	48.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
298	48%	47.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
299	49%	46.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
300	50%	45.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
301	51%	44.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
302	52%	43.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
303	53%	42.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
304	54%	41.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
305	55%	40.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
306	56%	39.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
307	57%	38.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
308	58%	37.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
309	59%	36.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
310	60%	35.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
311	30%	65%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
312	31%	64%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
313	32%	63%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
314	33%	62%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
315	34%	61%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
316	35%	60%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
317	36%	59%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
318	37%	58%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
319	38%	57%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
320	39%	56%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 1

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		6	Range A	Range B	Species C	Species D	Species E
321	40%	55%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
322	41%	54%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
323	42%	53%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
324	43%	52%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
325	44%	51%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
326	45%	50%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
327	46%	49%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
328	47%	48%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
329	48%	47%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
330	49%	46%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
331	50%	45%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
332	51%	44%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
333	52%	43%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
334	53%	42%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
335	54%	41%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
336	55%	40%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
337	56%	39%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
338	57%	38%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
339	58%	37%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
340	59%	36%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
341	60%	35%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
342	30%	64.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
343	31%	63.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
344	32%	62.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
345	33%	61.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
346	34%	60.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
347	35%	59.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
348	36%	58.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
349	37%	57.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
350	38%	56.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
351	39%	55.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
352	40%	54.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
353	41%	53.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
354	42%	52.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 1

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		6	Range A	Range B	Species C	Species D	Species E
355	43%	51.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
356	44%	50.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
357	45%	49.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
358	46%	48.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
359	47%	47.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
360	48%	46.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
361	49%	45.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
362	50%	44.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
363	51%	43.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
364	52%	42.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
365	53%	41.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
366	54%	40.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
367	55%	39.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
368	56%	38.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
369	57%	37.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
370	58%	36.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
371	59%	35.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
372	60%	34.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
373	30%	64%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
374	31%	63%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
375	32%	62%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
376	33%	61%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
377	34%	60%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
378	35%	59%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
379	36%	58%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
380	37%	57%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
381	38%	56%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
382	39%	55%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
383	40%	54%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
384	41%	53%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
385	42%	52%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
386	43%	51%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
387	44%	50%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
388	45%	49%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 1

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		6	Range A	Range B	Species C	Species D	Species E
389	46%	48%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
390	47%	47%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
391	48%	46%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
392	49%	45%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
393	50%	44%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
394	51%	43%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
395	52%	42%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
396	53%	41%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
397	54%	40%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
398	55%	39%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
399	56%	38%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
400	57%	37%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
401	58%	36%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
402	59%	35%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
403	60%	34%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
404	30%	63.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
405	31%	62.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
406	32%	61.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
407	33%	60.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
408	34%	59.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
409	35%	58.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
410	36%	57.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
411	37%	56.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
412	38%	55.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
413	39%	54.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
414	40%	53.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
415	41%	52.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
416	42%	51.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
417	43%	50.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
418	44%	49.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
419	45%	48.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
420	46%	47.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
421	47%	46.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
422	48%	45.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 1

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		6	Range A	Range B	Species C	Species D	Species E
423	49%	44.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
424	50%	43.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
425	51%	42.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
426	52%	41.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
427	53%	40.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
428	54%	39.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
429	55%	38.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
430	56%	37.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
431	57%	36.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
432	58%	35.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
433	59%	34.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
434	60%	33.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
435	30%	63%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
436	31%	62%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
437	32%	61%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
438	33%	60%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
439	34%	59%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
440	35%	58%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
441	36%	57%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
442	37%	56%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
443	38%	55%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
444	39%	54%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
445	40%	53%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
446	41%	52%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
447	42%	51%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
448	43%	50%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
449	44%	49%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
450	45%	48%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
451	46%	47%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
452	47%	46%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
453	48%	45%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
454	49%	44%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
455	50%	43%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
456	51%	42%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 1

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		6	Range A	Range B	Species C	Species D	Species E
457	52%	41%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
458	53%	40%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
459	54%	39%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
460	55%	38%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
461	56%	37%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
462	57%	36%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
463	58%	35%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
464	59%	34%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
465	60%	33%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 2

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9	6	Range A	Range B	Species C	Species D	Species E
466	30%	70%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
467	31%	69%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
468	32%	68%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
469	33%	67%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
470	34%	66%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
471	35%	65%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
472	36%	64%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
473	37%	63%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
474	38%	62%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
475	39%	61%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
476	40%	60%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
477	41%	59%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
478	42%	58%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
479	43%	57%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
480	44%	56%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
481	45%	55%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
482	46%	54%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
483	47%	53%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
484	48%	52%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
485	49%	51%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
486	50%	50%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
487	51%	49%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
488	52%	48%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
489	53%	47%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
490	54%	46%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
491	55%	45%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
492	56%	44%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
493	57%	43%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
494	58%	42%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
495	59%	41%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
496	60%	40%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
497	30%	69.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
498	31%	68.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
499	32%	67.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 2

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		6	Range A	Range B	Species C	Species D	Species E
500	33%	66.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
501	34%	65.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
502	35%	64.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
503	36%	63.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
504	37%	62.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
505	38%	61.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
506	39%	60.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
507	40%	59.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
508	41%	58.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
509	42%	57.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
510	43%	56.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
511	44%	55.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
512	45%	54.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
513	46%	53.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
514	47%	52.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
515	48%	51.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
516	49%	50.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
517	50%	49.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
518	51%	48.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
519	52%	47.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
520	53%	46.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
521	54%	45.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
522	55%	44.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
523	56%	43.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
524	57%	42.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
525	58%	41.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
526	59%	40.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
527	60%	39.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
528	30%	69%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
529	31%	68%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
530	32%	67%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
531	33%	66%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
532	34%	65%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
533	35%	64%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 2

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9	6	Range A	Range B	Species C	Species D	Species E
534	36%	63%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
535	37%	62%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
536	38%	61%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
537	39%	60%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
538	40%	59%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
539	41%	58%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
540	42%	57%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
541	43%	56%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
542	44%	55%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
543	45%	54%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
544	46%	53%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
545	47%	52%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
546	48%	51%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
547	49%	50%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
548	50%	49%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
549	51%	48%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
550	52%	47%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
551	53%	46%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
552	54%	45%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
553	55%	44%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
554	56%	43%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
555	57%	42%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
556	58%	41%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
557	59%	40%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
558	60%	39%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
559	30%	68.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
560	31%	67.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
561	32%	66.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
562	33%	65.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
563	34%	64.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
564	35%	63.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
565	36%	62.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
566	37%	61.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
567	38%	60.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 2

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		6	Range A	Range B	Species C	Species D	Species E
568	39%	59.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
569	40%	58.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
570	41%	57.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
571	42%	56.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
572	43%	55.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
573	44%	54.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
574	45%	53.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
575	46%	52.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
576	47%	51.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
577	48%	50.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
578	49%	49.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
579	50%	48.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
580	51%	47.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
581	52%	46.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
582	53%	45.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
583	54%	44.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
584	55%	43.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
585	56%	42.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
586	57%	41.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
587	58%	40.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
588	59%	39.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
589	60%	38.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
590	30%	68%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
591	31%	67%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
592	32%	66%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
593	33%	65%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
594	34%	64%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
595	35%	63%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
596	36%	62%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
597	37%	61%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
598	38%	60%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
599	39%	59%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
600	40%	58%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
601	41%	57%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 2

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9	6	Range A	Range B	Species C	Species D	Species E
602	42%	56%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
603	43%	55%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
604	44%	54%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
605	45%	53%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
606	46%	52%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
607	47%	51%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
608	48%	50%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
609	49%	49%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
610	50%	48%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
611	51%	47%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
612	52%	46%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
613	53%	45%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
614	54%	44%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
615	55%	43%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
616	56%	42%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
617	57%	41%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
618	58%	40%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
619	59%	39%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
620	60%	38%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
621	30%	67.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
622	31%	66.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
623	32%	65.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
624	33%	64.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
625	34%	63.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
626	35%	62.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
627	36%	61.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
628	37%	60.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
629	38%	59.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
630	39%	58.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
631	40%	57.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
632	41%	56.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
633	42%	55.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
634	43%	54.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
635	44%	53.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 2

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		6	Range A	Range B	Species C	Species D	Species E
636	45%	52.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
637	46%	51.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
638	47%	50.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
639	48%	49.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
640	49%	48.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
641	50%	47.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
642	51%	46.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
643	52%	45.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
644	53%	44.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
645	54%	43.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
646	55%	42.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
647	56%	41.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
648	57%	40.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
649	58%	39.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
650	59%	38.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
651	60%	37.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
652	30%	67%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
653	31%	66%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
654	32%	65%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
655	33%	64%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
656	34%	63%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
657	35%	62%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
658	36%	61%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
659	37%	60%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
660	38%	59%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
661	39%	58%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
662	40%	57%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
663	41%	56%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
664	42%	55%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
665	43%	54%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
666	44%	53%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
667	45%	52%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
668	46%	51%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
669	47%	50%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 2

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)			
	8	9		6	Range A	Range B	Species C	Species D	Species E
670	48%	49%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
671	49%	48%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
672	50%	47%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
673	51%	46%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
674	52%	45%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
675	53%	44%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
676	54%	43%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
677	55%	42%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
678	56%	41%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
679	57%	40%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
680	58%	39%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
681	59%	38%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
682	60%	37%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
683	30%	66.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
684	31%	65.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
685	32%	64.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
686	33%	63.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
687	34%	62.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
688	35%	61.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
689	36%	60.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
690	37%	59.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
691	38%	58.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
692	39%	57.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
693	40%	56.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
694	41%	55.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
695	42%	54.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
696	43%	53.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
697	44%	52.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
698	45%	51.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
699	46%	50.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
700	47%	49.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
701	48%	48.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
702	49%	47.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
703	50%	46.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 2

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		6	Range A	Range B	Species C	Species D	Species E
704	51%	45.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
705	52%	44.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
706	53%	43.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
707	54%	42.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
708	55%	41.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
709	56%	40.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
710	57%	39.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
711	58%	38.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
712	59%	37.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
713	60%	36.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
714	30%	66%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
715	31%	65%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
716	32%	64%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
717	33%	63%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
718	34%	62%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
719	35%	61%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
720	36%	60%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
721	37%	59%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
722	38%	58%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
723	39%	57%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
724	40%	56%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
725	41%	55%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
726	42%	54%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
727	43%	53%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
728	44%	52%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
729	45%	51%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
730	46%	50%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
731	47%	49%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
732	48%	48%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
733	49%	47%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
734	50%	46%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
735	51%	45%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
736	52%	44%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
737	53%	43%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 2

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9	6	Range A	Range B	Species C	Species D	Species E
738	54%	42%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
739	55%	41%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
740	56%	40%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
741	57%	39%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
742	58%	38%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
743	59%	37%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
744	60%	36%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
745	30%	65.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
746	31%	64.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
747	32%	63.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
748	33%	62.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
749	34%	61.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
750	35%	60.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
751	36%	59.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
752	37%	58.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
753	38%	57.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
754	39%	56.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
755	40%	55.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
756	41%	54.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
757	42%	53.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
758	43%	52.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
759	44%	51.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
760	45%	50.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
761	46%	49.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
762	47%	48.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
763	48%	47.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
764	49%	46.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
765	50%	45.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
766	51%	44.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
767	52%	43.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
768	53%	42.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
769	54%	41.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
770	55%	40.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
771	56%	39.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 2

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9	6	Range A	Range B	Species C	Species D	Species E
772	57%	38.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
773	58%	37.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
774	59%	36.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
775	60%	35.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
776	30%	65%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
777	31%	64%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
778	32%	63%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
779	33%	62%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
780	34%	61%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
781	35%	60%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
782	36%	59%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
783	37%	58%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
784	38%	57%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
785	39%	56%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
786	40%	55%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
787	41%	54%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
788	42%	53%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
789	43%	52%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
790	44%	51%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
791	45%	50%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
792	46%	49%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
793	47%	48%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
794	48%	47%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
795	49%	46%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
796	50%	45%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
797	51%	44%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
798	52%	43%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
799	53%	42%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
800	54%	41%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
801	55%	40%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
802	56%	39%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
803	57%	38%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
804	58%	37%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
805	59%	36%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 2

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9	6	Range A	Range B	Species C	Species D	Species E
806	60%	35%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
807	30%	64.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
808	31%	63.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
809	32%	62.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
810	33%	61.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
811	34%	60.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
812	35%	59.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
813	36%	58.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
814	37%	57.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
815	38%	56.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
816	39%	55.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
817	40%	54.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
818	41%	53.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
819	42%	52.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
820	43%	51.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
821	44%	50.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
822	45%	49.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
823	46%	48.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
824	47%	47.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
825	48%	46.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
826	49%	45.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
827	50%	44.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
828	51%	43.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
829	52%	42.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
830	53%	41.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
831	54%	40.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
832	55%	39.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
833	56%	38.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
834	57%	37.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
835	58%	36.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
836	59%	35.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
837	60%	34.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
838	30%	64%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
839	31%	63%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 2

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9	6	Range A	Range B	Species C	Species D	Species E
840	32%	62%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
841	33%	61%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
842	34%	60%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
843	35%	59%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
844	36%	58%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
845	37%	57%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
846	38%	56%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
847	39%	55%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
848	40%	54%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
849	41%	53%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
850	42%	52%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
851	43%	51%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
852	44%	50%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
853	45%	49%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
854	46%	48%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
855	47%	47%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
856	48%	46%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
857	49%	45%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
858	50%	44%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
859	51%	43%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
860	52%	42%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
861	53%	41%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
862	54%	40%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
863	55%	39%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
864	56%	38%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
865	57%	37%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
866	58%	36%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
867	59%	35%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
868	60%	34%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
869	30%	63.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
870	31%	62.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
871	32%	61.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
872	33%	60.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
873	34%	59.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 2

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		6	Range A	Range B	Species C	Species D	Species E
874	35%	58.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
875	36%	57.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
876	37%	56.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
877	38%	55.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
878	39%	54.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
879	40%	53.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
880	41%	52.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
881	42%	51.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
882	43%	50.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
883	44%	49.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
884	45%	48.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
885	46%	47.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
886	47%	46.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
887	48%	45.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
888	49%	44.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
889	50%	43.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
890	51%	42.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
891	52%	41.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
892	53%	40.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
893	54%	39.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
894	55%	38.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
895	56%	37.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
896	57%	36.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
897	58%	35.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
898	59%	34.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
899	60%	33.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
900	30%	63%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
901	31%	62%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
902	32%	61%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
903	33%	60%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
904	34%	59%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
905	35%	58%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
906	36%	57%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
907	37%	56%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 2

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		6	Range A	Range B	Species C	Species D	Species E
908	38%	55%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
909	39%	54%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
910	40%	53%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
911	41%	52%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
912	42%	51%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
913	43%	50%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
914	44%	49%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
915	45%	48%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
916	46%	47%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
917	47%	46%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
918	48%	45%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
919	49%	44%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
920	50%	43%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
921	51%	42%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
922	52%	41%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
923	53%	40%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
924	54%	39%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
925	55%	38%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
926	56%	37%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
927	57%	36%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
928	58%	35%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
929	59%	34%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
930	60%	33%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 3

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		6	Range A	Range B	Species C	Species D	Species E
931	30%	70%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
932	31%	69%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
933	32%	68%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
934	33%	67%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
935	34%	66%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
936	35%	65%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
937	36%	64%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
938	37%	63%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
939	38%	62%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
940	39%	61%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
941	40%	60%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
942	41%	59%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
943	42%	58%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
944	43%	57%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
945	44%	56%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
946	45%	55%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
947	46%	54%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
948	47%	53%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
949	48%	52%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
950	49%	51%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
951	50%	50%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
952	51%	49%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
953	52%	48%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
954	53%	47%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
955	54%	46%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
956	55%	45%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
957	56%	44%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
958	57%	43%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
959	58%	42%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
960	59%	41%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
961	60%	40%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
962	30%	69.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
963	31%	68.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
964	32%	67.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 3

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		6	Range A	Range B	Species C	Species D	Species E
965	33%	66.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
966	34%	65.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
967	35%	64.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
968	36%	63.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
969	37%	62.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
970	38%	61.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
971	39%	60.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
972	40%	59.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
973	41%	58.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
974	42%	57.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
975	43%	56.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
976	44%	55.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
977	45%	54.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
978	46%	53.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
979	47%	52.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
980	48%	51.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
981	49%	50.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
982	50%	49.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
983	51%	48.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
984	52%	47.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
985	53%	46.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
986	54%	45.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
987	55%	44.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
988	56%	43.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
989	57%	42.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
990	58%	41.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
991	59%	40.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
992	60%	39.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
993	30%	69%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
994	31%	68%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
995	32%	67%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
996	33%	66%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
997	34%	65%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
998	35%	64%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 3

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		6	Range A	Range B	Species C	Species D	Species E
999	36%	63%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1000	37%	62%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1001	38%	61%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1002	39%	60%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1003	40%	59%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1004	41%	58%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1005	42%	57%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1006	43%	56%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1007	44%	55%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1008	45%	54%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1009	46%	53%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1010	47%	52%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1011	48%	51%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1012	49%	50%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1013	50%	49%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1014	51%	48%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1015	52%	47%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1016	53%	46%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1017	54%	45%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1018	55%	44%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1019	56%	43%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1020	57%	42%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1021	58%	41%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1022	59%	40%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1023	60%	39%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1024	30%	68.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1025	31%	67.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1026	32%	66.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1027	33%	65.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1028	34%	64.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1029	35%	63.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1030	36%	62.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1031	37%	61.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1032	38%	60.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 3

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		6	Range A	Range B	Species C	Species D	Species E
1033	39%	59.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1034	40%	58.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1035	41%	57.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1036	42%	56.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1037	43%	55.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1038	44%	54.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1039	45%	53.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1040	46%	52.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1041	47%	51.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1042	48%	50.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1043	49%	49.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1044	50%	48.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1045	51%	47.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1046	52%	46.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1047	53%	45.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1048	54%	44.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1049	55%	43.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1050	56%	42.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1051	57%	41.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1052	58%	40.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1053	59%	39.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1054	60%	38.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1055	30%	68%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1056	31%	67%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1057	32%	66%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1058	33%	65%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1059	34%	64%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1060	35%	63%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1061	36%	62%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1062	37%	61%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1063	38%	60%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1064	39%	59%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1065	40%	58%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1066	41%	57%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 3

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		6	Range A	Range B	Species C	Species D	Species E
1067	42%	56%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1068	43%	55%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1069	44%	54%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1070	45%	53%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1071	46%	52%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1072	47%	51%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1073	48%	50%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1074	49%	49%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1075	50%	48%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1076	51%	47%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1077	52%	46%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1078	53%	45%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1079	54%	44%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1080	55%	43%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1081	56%	42%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1082	57%	41%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1083	58%	40%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1084	59%	39%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1085	60%	38%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1086	30%	67.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1087	31%	66.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1088	32%	65.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1089	33%	64.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1090	34%	63.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1091	35%	62.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1092	36%	61.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1093	37%	60.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1094	38%	59.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1095	39%	58.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1096	40%	57.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1097	41%	56.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1098	42%	55.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1099	43%	54.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1100	44%	53.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 3

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		6	Range A	Range B	Species C	Species D	Species E
1101	45%	52.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1102	46%	51.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1103	47%	50.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1104	48%	49.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1105	49%	48.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1106	50%	47.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1107	51%	46.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1108	52%	45.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1109	53%	44.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1110	54%	43.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1111	55%	42.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1112	56%	41.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1113	57%	40.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1114	58%	39.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1115	59%	38.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1116	60%	37.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1117	30%	67%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1118	31%	66%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1119	32%	65%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1120	33%	64%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1121	34%	63%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1122	35%	62%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1123	36%	61%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1124	37%	60%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1125	38%	59%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1126	39%	58%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1127	40%	57%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1128	41%	56%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1129	42%	55%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1130	43%	54%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1131	44%	53%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1132	45%	52%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1133	46%	51%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1134	47%	50%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 3

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		6	Range A	Range B	Species C	Species D	Species E
1135	48%	49%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1136	49%	48%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1137	50%	47%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1138	51%	46%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1139	52%	45%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1140	53%	44%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1141	54%	43%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1142	55%	42%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1143	56%	41%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1144	57%	40%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1145	58%	39%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1146	59%	38%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1147	60%	37%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1148	30%	66.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1149	31%	65.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1150	32%	64.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1151	33%	63.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1152	34%	62.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1153	35%	61.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1154	36%	60.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1155	37%	59.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1156	38%	58.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1157	39%	57.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1158	40%	56.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1159	41%	55.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1160	42%	54.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1161	43%	53.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1162	44%	52.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1163	45%	51.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1164	46%	50.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1165	47%	49.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1166	48%	48.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1167	49%	47.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1168	50%	46.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 3

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		6	Range A	Range B	Species C	Species D	Species E
1169	51%	45.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1170	52%	44.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1171	53%	43.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1172	54%	42.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1173	55%	41.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1174	56%	40.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1175	57%	39.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1176	58%	38.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1177	59%	37.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1178	60%	36.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1179	30%	66%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1180	31%	65%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1181	32%	64%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1182	33%	63%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1183	34%	62%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1184	35%	61%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1185	36%	60%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1186	37%	59%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1187	38%	58%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1188	39%	57%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1189	40%	56%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1190	41%	55%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1191	42%	54%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1192	43%	53%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1193	44%	52%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1194	45%	51%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1195	46%	50%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1196	47%	49%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1197	48%	48%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1198	49%	47%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1199	50%	46%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1200	51%	45%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1201	52%	44%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1202	53%	43%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 3

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		6	Range A	Range B	Species C	Species D	Species E
1203	54%	42%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1204	55%	41%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1205	56%	40%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1206	57%	39%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1207	58%	38%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1208	59%	37%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1209	60%	36%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1210	30%	65.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1211	31%	64.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1212	32%	63.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1213	33%	62.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1214	34%	61.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1215	35%	60.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1216	36%	59.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1217	37%	58.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1218	38%	57.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1219	39%	56.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1220	40%	55.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1221	41%	54.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1222	42%	53.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1223	43%	52.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1224	44%	51.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1225	45%	50.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1226	46%	49.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1227	47%	48.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1228	48%	47.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1229	49%	46.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1230	50%	45.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1231	51%	44.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1232	52%	43.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1233	53%	42.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1234	54%	41.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1235	55%	40.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1236	56%	39.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 3

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		6	Range A	Range B	Species C	Species D	Species E
1237	57%	38.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1238	58%	37.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1239	59%	36.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1240	60%	35.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1241	30%	65%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1242	31%	64%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1243	32%	63%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1244	33%	62%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1245	34%	61%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1246	35%	60%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1247	36%	59%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1248	37%	58%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1249	38%	57%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1250	39%	56%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1251	40%	55%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1252	41%	54%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1253	42%	53%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1254	43%	52%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1255	44%	51%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1256	45%	50%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1257	46%	49%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1258	47%	48%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1259	48%	47%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1260	49%	46%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1261	50%	45%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1262	51%	44%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1263	52%	43%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1264	53%	42%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1265	54%	41%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1266	55%	40%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1267	56%	39%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1268	57%	38%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1269	58%	37%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1270	59%	36%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 3

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		6	Range A	Range B	Species C	Species D	Species E
1271	60%	35%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1272	30%	64.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1273	31%	63.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1274	32%	62.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1275	33%	61.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1276	34%	60.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1277	35%	59.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1278	36%	58.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1279	37%	57.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1280	38%	56.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1281	39%	55.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1282	40%	54.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1283	41%	53.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1284	42%	52.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1285	43%	51.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1286	44%	50.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1287	45%	49.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1288	46%	48.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1289	47%	47.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1290	48%	46.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1291	49%	45.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1292	50%	44.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1293	51%	43.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1294	52%	42.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1295	53%	41.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1296	54%	40.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1297	55%	39.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1298	56%	38.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1299	57%	37.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1300	58%	36.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1301	59%	35.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1302	60%	34.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1303	30%	64%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1304	31%	63%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 3

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		6	Range A	Range B	Species C	Species D	Species E
1305	32%	62%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1306	33%	61%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1307	34%	60%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1308	35%	59%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1309	36%	58%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1310	37%	57%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1311	38%	56%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1312	39%	55%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1313	40%	54%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1314	41%	53%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1315	42%	52%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1316	43%	51%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1317	44%	50%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1318	45%	49%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1319	46%	48%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1320	47%	47%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1321	48%	46%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1322	49%	45%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1323	50%	44%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1324	51%	43%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1325	52%	42%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1326	53%	41%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1327	54%	40%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1328	55%	39%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1329	56%	38%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1330	57%	37%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1331	58%	36%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1332	59%	35%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1333	60%	34%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1334	30%	63.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1335	31%	62.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1336	32%	61.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1337	33%	60.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1338	34%	59.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 3

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		6	Range A	Range B	Species C	Species D	Species E
1339	35%	58.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1340	36%	57.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1341	37%	56.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1342	38%	55.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1343	39%	54.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1344	40%	53.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1345	41%	52.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1346	42%	51.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1347	43%	50.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1348	44%	49.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1349	45%	48.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1350	46%	47.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1351	47%	46.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1352	48%	45.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1353	49%	44.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1354	50%	43.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1355	51%	42.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1356	52%	41.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1357	53%	40.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1358	54%	39.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1359	55%	38.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1360	56%	37.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1361	57%	36.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1362	58%	35.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1363	59%	34.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1364	60%	33.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1365	30%	63%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1366	31%	62%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1367	32%	61%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1368	33%	60%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1369	34%	59%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1370	35%	58%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1371	36%	57%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1372	37%	56%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 3

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		6	Range A	Range B	Species C	Species D	Species E
1373	38%	55%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1374	39%	54%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1375	40%	53%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1376	41%	52%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1377	42%	51%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1378	43%	50%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1379	44%	49%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1380	45%	48%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1381	46%	47%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1382	47%	46%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1383	48%	45%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1384	49%	44%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1385	50%	43%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1386	51%	42%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1387	52%	41%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1388	53%	40%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1389	54%	39%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1390	55%	38%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1391	56%	37%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1392	57%	36%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1393	58%	35%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1394	59%	34%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1395	60%	33%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 4

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	6	Range A	Range B	Species C	Species D	Species E
1396	30%	70%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1397	31%	69%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1398	32%	68%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1399	33%	67%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1400	34%	66%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1401	35%	65%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1402	36%	64%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1403	37%	63%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1404	38%	62%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1405	39%	61%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1406	40%	60%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1407	41%	59%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1408	42%	58%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1409	43%	57%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1410	44%	56%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1411	45%	55%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1412	46%	54%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1413	47%	53%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1414	48%	52%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1415	49%	51%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1416	50%	50%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1417	51%	49%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1418	52%	48%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1419	53%	47%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1420	54%	46%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1421	55%	45%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1422	56%	44%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1423	57%	43%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1424	58%	42%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1425	59%	41%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1426	60%	40%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1427	30%	69.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1428	31%	68.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1429	32%	67.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 4

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	6	Range A	Range B	Species C	Species D	Species E
1430	33%	66.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1431	34%	65.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1432	35%	64.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1433	36%	63.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1434	37%	62.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1435	38%	61.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1436	39%	60.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1437	40%	59.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1438	41%	58.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1439	42%	57.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1440	43%	56.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1441	44%	55.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1442	45%	54.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1443	46%	53.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1444	47%	52.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1445	48%	51.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1446	49%	50.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1447	50%	49.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1448	51%	48.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1449	52%	47.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1450	53%	46.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1451	54%	45.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1452	55%	44.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1453	56%	43.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1454	57%	42.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1455	58%	41.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1456	59%	40.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1457	60%	39.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1458	30%	69%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1459	31%	68%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1460	32%	67%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1461	33%	66%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1462	34%	65%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1463	35%	64%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 4

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	6	Range A	Range B	Species C	Species D	Species E
1464	36%	63%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1465	37%	62%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1466	38%	61%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1467	39%	60%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1468	40%	59%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1469	41%	58%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1470	42%	57%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1471	43%	56%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1472	44%	55%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1473	45%	54%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1474	46%	53%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1475	47%	52%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1476	48%	51%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1477	49%	50%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1478	50%	49%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1479	51%	48%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1480	52%	47%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1481	53%	46%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1482	54%	45%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1483	55%	44%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1484	56%	43%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1485	57%	42%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1486	58%	41%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1487	59%	40%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1488	60%	39%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1489	30%	68.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1490	31%	67.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1491	32%	66.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1492	33%	65.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1493	34%	64.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1494	35%	63.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1495	36%	62.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1496	37%	61.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1497	38%	60.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 4

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	6	Range A	Range B	Species C	Species D	Species E
1498	39%	59.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1499	40%	58.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1500	41%	57.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1501	42%	56.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1502	43%	55.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1503	44%	54.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1504	45%	53.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1505	46%	52.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1506	47%	51.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1507	48%	50.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1508	49%	49.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1509	50%	48.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1510	51%	47.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1511	52%	46.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1512	53%	45.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1513	54%	44.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1514	55%	43.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1515	56%	42.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1516	57%	41.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1517	58%	40.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1518	59%	39.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1519	60%	38.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1520	30%	68%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1521	31%	67%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1522	32%	66%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1523	33%	65%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1524	34%	64%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1525	35%	63%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1526	36%	62%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1527	37%	61%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1528	38%	60%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1529	39%	59%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1530	40%	58%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1531	41%	57%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 4

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	6	Range A	Range B	Species C	Species D	Species E
1532	42%	56%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1533	43%	55%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1534	44%	54%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1535	45%	53%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1536	46%	52%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1537	47%	51%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1538	48%	50%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1539	49%	49%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1540	50%	48%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1541	51%	47%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1542	52%	46%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1543	53%	45%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1544	54%	44%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1545	55%	43%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1546	56%	42%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1547	57%	41%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1548	58%	40%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1549	59%	39%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1550	60%	38%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1551	30%	67.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1552	31%	66.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1553	32%	65.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1554	33%	64.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1555	34%	63.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1556	35%	62.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1557	36%	61.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1558	37%	60.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1559	38%	59.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1560	39%	58.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1561	40%	57.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1562	41%	56.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1563	42%	55.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1564	43%	54.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1565	44%	53.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 4

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	6	Range A	Range B	Species C	Species D	Species E
1566	45%	52.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1567	46%	51.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1568	47%	50.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1569	48%	49.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1570	49%	48.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1571	50%	47.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1572	51%	46.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1573	52%	45.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1574	53%	44.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1575	54%	43.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1576	55%	42.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1577	56%	41.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1578	57%	40.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1579	58%	39.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1580	59%	38.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1581	60%	37.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1582	30%	67%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1583	31%	66%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1584	32%	65%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1585	33%	64%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1586	34%	63%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1587	35%	62%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1588	36%	61%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1589	37%	60%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1590	38%	59%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1591	39%	58%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1592	40%	57%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1593	41%	56%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1594	42%	55%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1595	43%	54%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1596	44%	53%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1597	45%	52%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1598	46%	51%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1599	47%	50%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 4

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	6	Range A	Range B	Species C	Species D	Species E
1600	48%	49%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1601	49%	48%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1602	50%	47%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1603	51%	46%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1604	52%	45%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1605	53%	44%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1606	54%	43%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1607	55%	42%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1608	56%	41%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1609	57%	40%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1610	58%	39%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1611	59%	38%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1612	60%	37%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1613	30%	66.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1614	31%	65.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1615	32%	64.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1616	33%	63.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1617	34%	62.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1618	35%	61.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1619	36%	60.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1620	37%	59.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1621	38%	58.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1622	39%	57.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1623	40%	56.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1624	41%	55.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1625	42%	54.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1626	43%	53.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1627	44%	52.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1628	45%	51.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1629	46%	50.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1630	47%	49.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1631	48%	48.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1632	49%	47.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1633	50%	46.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 4

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	6	Range A	Range B	Species C	Species D	Species E
1634	51%	45.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1635	52%	44.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1636	53%	43.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1637	54%	42.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1638	55%	41.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1639	56%	40.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1640	57%	39.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1641	58%	38.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1642	59%	37.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1643	60%	36.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1644	30%	66%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1645	31%	65%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1646	32%	64%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1647	33%	63%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1648	34%	62%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1649	35%	61%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1650	36%	60%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1651	37%	59%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1652	38%	58%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1653	39%	57%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1654	40%	56%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1655	41%	55%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1656	42%	54%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1657	43%	53%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1658	44%	52%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1659	45%	51%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1660	46%	50%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1661	47%	49%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1662	48%	48%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1663	49%	47%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1664	50%	46%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1665	51%	45%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1666	52%	44%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1667	53%	43%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 4

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	6	Range A	Range B	Species C	Species D	Species E
1668	54%	42%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1669	55%	41%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1670	56%	40%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1671	57%	39%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1672	58%	38%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1673	59%	37%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1674	60%	36%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1675	30%	65.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1676	31%	64.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1677	32%	63.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1678	33%	62.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1679	34%	61.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1680	35%	60.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1681	36%	59.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1682	37%	58.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1683	38%	57.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1684	39%	56.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1685	40%	55.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1686	41%	54.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1687	42%	53.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1688	43%	52.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1689	44%	51.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1690	45%	50.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1691	46%	49.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1692	47%	48.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1693	48%	47.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1694	49%	46.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1695	50%	45.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1696	51%	44.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1697	52%	43.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1698	53%	42.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1699	54%	41.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1700	55%	40.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1701	56%	39.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 4

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	6	Range A	Range B	Species C	Species D	Species E
1702	57%	38.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1703	58%	37.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1704	59%	36.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1705	60%	35.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1706	30%	65%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1707	31%	64%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1708	32%	63%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1709	33%	62%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1710	34%	61%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1711	35%	60%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1712	36%	59%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1713	37%	58%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1714	38%	57%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1715	39%	56%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1716	40%	55%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1717	41%	54%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1718	42%	53%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1719	43%	52%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1720	44%	51%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1721	45%	50%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1722	46%	49%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1723	47%	48%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1724	48%	47%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1725	49%	46%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1726	50%	45%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1727	51%	44%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1728	52%	43%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1729	53%	42%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1730	54%	41%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1731	55%	40%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1732	56%	39%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1733	57%	38%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1734	58%	37%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1735	59%	36%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 4

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	6	Range A	Range B	Species C	Species D	Species E
1736	60%	35%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1737	30%	64.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1738	31%	63.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1739	32%	62.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1740	33%	61.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1741	34%	60.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1742	35%	59.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1743	36%	58.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1744	37%	57.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1745	38%	56.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1746	39%	55.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1747	40%	54.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1748	41%	53.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1749	42%	52.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1750	43%	51.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1751	44%	50.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1752	45%	49.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1753	46%	48.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1754	47%	47.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1755	48%	46.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1756	49%	45.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1757	50%	44.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1758	51%	43.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1759	52%	42.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1760	53%	41.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1761	54%	40.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1762	55%	39.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1763	56%	38.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1764	57%	37.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1765	58%	36.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1766	59%	35.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1767	60%	34.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1768	30%	64%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1769	31%	63%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 4

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	6	Range A	Range B	Species C	Species D	Species E
1770	32%	62%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1771	33%	61%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1772	34%	60%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1773	35%	59%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1774	36%	58%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1775	37%	57%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1776	38%	56%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1777	39%	55%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1778	40%	54%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1779	41%	53%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1780	42%	52%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1781	43%	51%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1782	44%	50%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1783	45%	49%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1784	46%	48%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1785	47%	47%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1786	48%	46%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1787	49%	45%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1788	50%	44%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1789	51%	43%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1790	52%	42%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1791	53%	41%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1792	54%	40%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1793	55%	39%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1794	56%	38%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1795	57%	37%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1796	58%	36%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1797	59%	35%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1798	60%	34%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1799	30%	63.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1800	31%	62.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1801	32%	61.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1802	33%	60.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1803	34%	59.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 4

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	6	Range A	Range B	Species C	Species D	Species E
1804	35%	58.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1805	36%	57.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1806	37%	56.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1807	38%	55.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1808	39%	54.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1809	40%	53.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1810	41%	52.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1811	42%	51.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1812	43%	50.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1813	44%	49.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1814	45%	48.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1815	46%	47.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1816	47%	46.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1817	48%	45.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1818	49%	44.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1819	50%	43.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1820	51%	42.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1821	52%	41.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1822	53%	40.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1823	54%	39.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1824	55%	38.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1825	56%	37.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1826	57%	36.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1827	58%	35.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1828	59%	34.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1829	60%	33.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1830	30%	63%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1831	31%	62%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1832	32%	61%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1833	33%	60%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1834	34%	59%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1835	35%	58%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1836	36%	57%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1837	37%	56%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 4

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	6	Range A	Range B	Species C	Species D	Species E
1838	38%	55%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1839	39%	54%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1840	40%	53%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1841	41%	52%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1842	42%	51%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1843	43%	50%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1844	44%	49%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1845	45%	48%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1846	46%	47%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1847	47%	46%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1848	48%	45%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1849	49%	44%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1850	50%	43%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1851	51%	42%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1852	52%	41%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1853	53%	40%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1854	54%	39%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1855	55%	38%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1856	56%	37%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1857	57%	36%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1858	58%	35%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1859	59%	34%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1860	60%	33%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 5

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		6	Range A	Range B	Species C	Species D	Species E
1866	30%	70%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1867	31%	69%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1868	32%	68%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1869	33%	67%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1870	34%	66%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1871	35%	65%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1872	36%	64%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1873	37%	63%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1874	38%	62%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1875	39%	61%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1876	40%	60%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1877	41%	59%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1878	42%	58%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1879	43%	57%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1880	44%	56%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1881	45%	55%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1882	46%	54%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1883	47%	53%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1884	48%	52%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1885	49%	51%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1886	50%	50%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1887	51%	49%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1888	52%	48%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1889	53%	47%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1890	54%	46%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1891	55%	45%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1892	56%	44%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1893	57%	43%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1894	58%	42%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1895	59%	41%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1896	60%	40%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1897	30%	70%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1898	31%	69%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1899	32%	68%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 5

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		6	Range A	Range B	Species C	Species D	Species E
1900	33%	67%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1901	34%	66%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1902	35%	65%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1903	36%	64%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1904	37%	63%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1905	38%	62%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1906	39%	61%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1907	40%	60%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1908	41%	59%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1909	42%	58%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1910	43%	57%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1911	44%	56%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1912	45%	55%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1913	46%	54%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1914	47%	53%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1915	48%	52%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1916	49%	51%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1917	50%	50%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1918	51%	49%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1919	52%	48%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1920	53%	47%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1921	54%	46%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1922	55%	45%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1923	56%	44%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1924	57%	43%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1925	58%	42%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1926	59%	41%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1927	60%	40%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1928	30%	69%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1929	31%	68%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1930	32%	67%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1931	33%	66%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1932	34%	65%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1933	35%	64%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 5

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		6	Range A	Range B	Species C	Species D	Species E
1934	36%	63%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1935	37%	62%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1936	38%	61%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1937	39%	60%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1938	40%	59%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1939	41%	58%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1940	42%	57%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1941	43%	56%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1942	44%	55%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1943	45%	54%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1944	46%	53%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1945	47%	52%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1946	48%	51%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1947	49%	50%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1948	50%	49%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1949	51%	48%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1950	52%	47%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1951	53%	46%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1952	54%	45%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1953	55%	44%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1954	56%	43%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1955	57%	42%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1956	58%	41%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1957	59%	40%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1958	60%	39%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1959	30%	69%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1960	31%	68%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1961	32%	67%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1962	33%	66%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1963	34%	65%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1964	35%	64%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1965	36%	63%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1966	37%	62%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1967	38%	61%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 5

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		6	Range A	Range B	Species C	Species D	Species E
1968	39%	60%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1969	40%	59%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1970	41%	58%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1971	42%	57%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1972	43%	56%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1973	44%	55%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1974	45%	54%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1975	46%	53%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1976	47%	52%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1977	48%	51%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1978	49%	50%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1979	50%	49%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1980	51%	48%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1981	52%	47%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1982	53%	46%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1983	54%	45%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1984	55%	44%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1985	56%	43%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1986	57%	42%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1987	58%	41%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1988	59%	40%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1989	60%	39%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1990	30%	68%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1991	31%	67%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1992	32%	66%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1993	33%	65%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1994	34%	64%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1995	35%	63%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1996	36%	62%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1997	37%	61%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1998	38%	60%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
1999	39%	59%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2000	40%	58%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2001	41%	57%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 5

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		6	Range A	Range B	Species C	Species D	Species E
2002	42%	56%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2003	43%	55%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2004	44%	54%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2005	45%	53%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2006	46%	52%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2007	47%	51%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2008	48%	50%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2009	49%	49%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2010	50%	48%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2011	51%	47%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2012	52%	46%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2013	53%	45%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2014	54%	44%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2015	55%	43%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2016	56%	42%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2017	57%	41%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2018	58%	40%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2019	59%	39%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2020	60%	38%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2021	30%	68%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2022	31%	67%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2023	32%	66%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2024	33%	65%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2025	34%	64%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2026	35%	63%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2027	36%	62%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2028	37%	61%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2029	38%	60%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2030	39%	59%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2031	40%	58%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2032	41%	57%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2033	42%	56%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2034	43%	55%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2035	44%	54%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 5

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		6	Range A	Range B	Species C	Species D	Species E
2036	45%	53%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2037	46%	52%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2038	47%	51%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2039	48%	50%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2040	49%	49%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2041	50%	48%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2042	51%	47%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2043	52%	46%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2044	53%	45%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2045	54%	44%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2046	55%	43%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2047	56%	42%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2048	57%	41%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2049	58%	40%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2050	59%	39%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2051	60%	38%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2052	30%	67%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2053	31%	66%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2054	32%	65%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2055	33%	64%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2056	34%	63%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2057	35%	62%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2058	36%	61%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2059	37%	60%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2060	38%	59%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2061	39%	58%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2062	40%	57%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2063	41%	56%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2064	42%	55%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2065	43%	54%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2066	44%	53%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2067	45%	52%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2068	46%	51%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2069	47%	50%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 5

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		6	Range A	Range B	Species C	Species D	Species E
2070	48%	49%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2071	49%	48%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2072	50%	47%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2073	51%	46%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2074	52%	45%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2075	53%	44%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2076	54%	43%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2077	55%	42%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2078	56%	41%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2079	57%	40%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2080	58%	39%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2081	59%	38%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2082	60%	37%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2083	30%	67%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2084	31%	66%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2085	32%	65%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2086	33%	64%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2087	34%	63%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2088	35%	62%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2089	36%	61%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2090	37%	60%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2091	38%	59%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2092	39%	58%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2093	40%	57%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2094	41%	56%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2095	42%	55%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2096	43%	54%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2097	44%	53%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2098	45%	52%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2099	46%	51%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2100	47%	50%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2101	48%	49%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2102	49%	48%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2103	50%	47%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 5

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		6	Range A	Range B	Species C	Species D	Species E
2104	51%	46%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2105	52%	45%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2106	53%	44%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2107	54%	43%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2108	55%	42%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2109	56%	41%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2110	57%	40%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2111	58%	39%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2112	59%	38%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2113	60%	37%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2114	30%	66%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2115	31%	65%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2116	32%	64%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2117	33%	63%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2118	34%	62%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2119	35%	61%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2120	36%	60%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2121	37%	59%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2122	38%	58%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2123	39%	57%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2124	40%	56%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2125	41%	55%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2126	42%	54%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2127	43%	53%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2128	44%	52%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2129	45%	51%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2130	46%	50%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2131	47%	49%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2132	48%	48%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2133	49%	47%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2134	50%	46%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2135	51%	45%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2136	52%	44%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2137	53%	43%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 5

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		6	Range A	Range B	Species C	Species D	Species E
2138	54%	42%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2139	55%	41%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2140	56%	40%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2141	57%	39%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2142	58%	38%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2143	59%	37%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2144	60%	36%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2145	30%	66%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2146	31%	65%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2147	32%	64%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2148	33%	63%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2149	34%	62%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2150	35%	61%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2151	36%	60%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2152	37%	59%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2153	38%	58%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2154	39%	57%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2155	40%	56%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2156	41%	55%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2157	42%	54%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2158	43%	53%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2159	44%	52%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2160	45%	51%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2161	46%	50%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2162	47%	49%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2163	48%	48%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2164	49%	47%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2165	50%	46%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2166	51%	45%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2167	52%	44%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2168	53%	43%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2169	54%	42%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2170	55%	41%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2171	56%	40%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 5

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		6	Range A	Range B	Species C	Species D	Species E
2172	57%	39%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2173	58%	38%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2174	59%	37%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2175	60%	36%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2176	30%	65%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2177	31%	64%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2178	32%	63%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2179	33%	62%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2180	34%	61%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2181	35%	60%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2182	36%	59%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2183	37%	58%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2184	38%	57%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2185	39%	56%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2186	40%	55%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2187	41%	54%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2188	42%	53%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2189	43%	52%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2190	44%	51%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2191	45%	50%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2192	46%	49%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2193	47%	48%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2194	48%	47%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2195	49%	46%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2196	50%	45%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2197	51%	44%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2198	52%	43%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2199	53%	42%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2200	54%	41%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2201	55%	40%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2202	56%	39%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2203	57%	38%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2204	58%	37%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2205	59%	36%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 5

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		6	Range A	Range B	Species C	Species D	Species E
2206	60%	35%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2207	30%	65%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2208	31%	64%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2209	32%	63%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2210	33%	62%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2211	34%	61%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2212	35%	60%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2213	36%	59%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2214	37%	58%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2215	38%	57%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2216	39%	56%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2217	40%	55%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2218	41%	54%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2219	42%	53%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2220	43%	52%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2221	44%	51%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2222	45%	50%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2223	46%	49%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2224	47%	48%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2225	48%	47%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2226	49%	46%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2227	50%	45%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2228	51%	44%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2229	52%	43%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2230	53%	42%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2231	54%	41%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2232	55%	40%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2233	56%	39%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2234	57%	38%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2235	58%	37%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2236	59%	36%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2237	60%	35%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2238	30%	64%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2239	31%	63%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 5

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		6	Range A	Range B	Species C	Species D	Species E
2240	32%	62%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2241	33%	61%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2242	34%	60%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2243	35%	59%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2244	36%	58%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2245	37%	57%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2246	38%	56%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2247	39%	55%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2248	40%	54%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2249	41%	53%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2250	42%	52%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2251	43%	51%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2252	44%	50%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2253	45%	49%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2254	46%	48%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2255	47%	47%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2256	48%	46%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2257	49%	45%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2258	50%	44%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2259	51%	43%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2260	52%	42%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2261	53%	41%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2262	54%	40%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2263	55%	39%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2264	56%	38%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2265	57%	37%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2266	58%	36%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2267	59%	35%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2268	60%	34%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2269	30%	64%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2270	31%	63%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2271	32%	62%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2272	33%	61%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2273	34%	60%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 5

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		6	Range A	Range B	Species C	Species D	Species E
2274	35%	59%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2275	36%	58%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2276	37%	57%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2277	38%	56%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2278	39%	55%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2279	40%	54%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2280	41%	53%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2281	42%	52%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2282	43%	51%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2283	44%	50%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2284	45%	49%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2285	46%	48%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2286	47%	47%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2287	48%	46%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2288	49%	45%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2289	50%	44%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2290	51%	43%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2291	52%	42%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2292	53%	41%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2293	54%	40%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2294	55%	39%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2295	56%	38%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2296	57%	37%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2297	58%	36%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2298	59%	35%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2299	60%	34%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2300	30%	63%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2301	31%	62%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2302	32%	61%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2303	33%	60%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2304	34%	59%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2305	35%	58%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2306	36%	57%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2307	37%	56%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 5

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		6	Range A	Range B	Species C	Species D	Species E
2308	38%	55%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2309	39%	54%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2310	40%	53%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2311	41%	52%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2312	42%	51%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2313	43%	50%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2314	44%	49%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2315	45%	48%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2316	46%	47%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2317	47%	46%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2318	48%	45%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2319	49%	44%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2320	50%	43%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2321	51%	42%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2322	52%	41%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2323	53%	40%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2324	54%	39%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2325	55%	38%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2326	56%	37%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2327	57%	36%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2328	58%	35%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2329	59%	34%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2330	60%	33%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 6

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10	8 to 10	Range A	Range B	Species C	Species D	Species E
2331	30%	70%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2332	31%	69%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2333	32%	68%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2334	33%	67%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2335	34%	66%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2336	35%	65%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2337	36%	64%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2338	37%	63%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2339	38%	62%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2340	39%	61%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2341	40%	60%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2342	41%	59%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2343	42%	58%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2344	43%	57%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2345	44%	56%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2346	45%	55%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2347	46%	54%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2348	47%	53%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2349	48%	52%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2350	49%	51%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2351	50%	50%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2352	51%	49%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2353	52%	48%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2354	53%	47%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2355	54%	46%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2356	55%	45%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2357	56%	44%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2358	57%	43%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2359	58%	42%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2360	59%	41%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2361	60%	40%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2362	30%	69.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2363	31%	68.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2364	32%	67.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 6

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		8 to 10	Range A	Range B	Species C	Species D	Species E
2365	33%	66.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2366	34%	65.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2367	35%	64.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2368	36%	63.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2369	37%	62.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2370	38%	61.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2371	39%	60.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2372	40%	59.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2373	41%	58.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2374	42%	57.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2375	43%	56.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2376	44%	55.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2377	45%	54.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2378	46%	53.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2379	47%	52.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2380	48%	51.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2381	49%	50.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2382	50%	49.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2383	51%	48.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2384	52%	47.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2385	53%	46.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2386	54%	45.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2387	55%	44.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2388	56%	43.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2389	57%	42.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2390	58%	41.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2391	59%	40.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2392	60%	39.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2393	30%	69%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2394	31%	68%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2395	32%	67%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2396	33%	66%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2397	34%	65%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2398	35%	64%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 6

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		8 to 10	Range A	Range B	Species C	Species D	Species E
2399	36%	63%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2400	37%	62%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2401	38%	61%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2402	39%	60%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2403	40%	59%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2404	41%	58%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2405	42%	57%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2406	43%	56%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2407	44%	55%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2408	45%	54%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2409	46%	53%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2410	47%	52%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2411	48%	51%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2412	49%	50%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2413	50%	49%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2414	51%	48%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2415	52%	47%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2416	53%	46%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2417	54%	45%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2418	55%	44%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2419	56%	43%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2420	57%	42%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2421	58%	41%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2422	59%	40%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2423	60%	39%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2424	30%	68.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2425	31%	67.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2426	32%	66.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2427	33%	65.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2428	34%	64.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2429	35%	63.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2430	36%	62.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2431	37%	61.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2432	38%	60.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 6

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		8 to 10	Range A	Range B	Species C	Species D	Species E
2433	39%	59.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2434	40%	58.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2435	41%	57.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2436	42%	56.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2437	43%	55.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2438	44%	54.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2439	45%	53.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2440	46%	52.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2441	47%	51.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2442	48%	50.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2443	49%	49.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2444	50%	48.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2445	51%	47.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2446	52%	46.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2447	53%	45.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2448	54%	44.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2449	55%	43.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2450	56%	42.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2451	57%	41.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2452	58%	40.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2453	59%	39.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2454	60%	38.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2455	30%	68%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2456	31%	67%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2457	32%	66%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2458	33%	65%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2459	34%	64%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2460	35%	63%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2461	36%	62%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2462	37%	61%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2463	38%	60%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2464	39%	59%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2465	40%	58%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2466	41%	57%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 6

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		8 to 10	Range A	Range B	Species C	Species D	Species E
2467	42%	56%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2468	43%	55%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2469	44%	54%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2470	45%	53%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2471	46%	52%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2472	47%	51%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2473	48%	50%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2474	49%	49%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2475	50%	48%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2476	51%	47%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2477	52%	46%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2478	53%	45%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2479	54%	44%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2480	55%	43%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2481	56%	42%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2482	57%	41%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2483	58%	40%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2484	59%	39%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2485	60%	38%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2486	30%	67.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2487	31%	66.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2488	32%	65.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2489	33%	64.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2490	34%	63.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2491	35%	62.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2492	36%	61.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2493	37%	60.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2494	38%	59.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2495	39%	58.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2496	40%	57.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2497	41%	56.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2498	42%	55.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2499	43%	54.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2500	44%	53.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 6

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10	8 to 10	Range A	Range B	Species C	Species D	Species E
2501	45%	52.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2502	46%	51.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2503	47%	50.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2504	48%	49.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2505	49%	48.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2506	50%	47.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2507	51%	46.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2508	52%	45.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2509	53%	44.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2510	54%	43.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2511	55%	42.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2512	56%	41.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2513	57%	40.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2514	58%	39.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2515	59%	38.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2516	60%	37.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2517	30%	67%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2518	31%	66%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2519	32%	65%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2520	33%	64%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2521	34%	63%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2522	35%	62%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2523	36%	61%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2524	37%	60%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2525	38%	59%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2526	39%	58%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2527	40%	57%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2528	41%	56%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2529	42%	55%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2530	43%	54%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2531	44%	53%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2532	45%	52%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2533	46%	51%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2534	47%	50%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 6

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		8 to 10	Range A	Range B	Species C	Species D	Species E
2535	48%	49%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2536	49%	48%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2537	50%	47%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2538	51%	46%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2539	52%	45%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2540	53%	44%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2541	54%	43%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2542	55%	42%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2543	56%	41%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2544	57%	40%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2545	58%	39%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2546	59%	38%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2547	60%	37%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2548	30%	66.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2549	31%	65.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2550	32%	64.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2551	33%	63.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2552	34%	62.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2553	35%	61.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2554	36%	60.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2555	37%	59.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2556	38%	58.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2557	39%	57.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2558	40%	56.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2559	41%	55.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2560	42%	54.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2561	43%	53.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2562	44%	52.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2563	45%	51.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2564	46%	50.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2565	47%	49.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2566	48%	48.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2567	49%	47.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2568	50%	46.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 6

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		8 to 10	Range A	Range B	Species C	Species D	Species E
2569	51%	45.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2570	52%	44.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2571	53%	43.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2572	54%	42.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2573	55%	41.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2574	56%	40.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2575	57%	39.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2576	58%	38.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2577	59%	37.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2578	60%	36.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2579	30%	66%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2580	31%	65%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2581	32%	64%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2582	33%	63%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2583	34%	62%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2584	35%	61%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2585	36%	60%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2586	37%	59%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2587	38%	58%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2588	39%	57%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2589	40%	56%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2590	41%	55%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2591	42%	54%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2592	43%	53%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2593	44%	52%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2594	45%	51%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2595	46%	50%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2596	47%	49%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2597	48%	48%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2598	49%	47%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2599	50%	46%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2600	51%	45%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2601	52%	44%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2602	53%	43%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 6

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		8 to 10	Range A	Range B	Species C	Species D	Species E
2603	54%	42%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2604	55%	41%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2605	56%	40%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2606	57%	39%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2607	58%	38%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2608	59%	37%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2609	60%	36%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2610	30%	65.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2611	31%	64.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2612	32%	63.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2613	33%	62.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2614	34%	61.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2615	35%	60.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2616	36%	59.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2617	37%	58.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2618	38%	57.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2619	39%	56.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2620	40%	55.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2621	41%	54.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2622	42%	53.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2623	43%	52.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2624	44%	51.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2625	45%	50.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2626	46%	49.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2627	47%	48.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2628	48%	47.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2629	49%	46.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2630	50%	45.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2631	51%	44.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2632	52%	43.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2633	53%	42.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2634	54%	41.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2635	55%	40.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2636	56%	39.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 6

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		8 to 10	Range A	Range B	Species C	Species D	Species E
2637	57%	38.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2638	58%	37.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2639	59%	36.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2640	60%	35.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2641	30%	65%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2642	31%	64%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2643	32%	63%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2644	33%	62%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2645	34%	61%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2646	35%	60%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2647	36%	59%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2648	37%	58%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2649	38%	57%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2650	39%	56%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2651	40%	55%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2652	41%	54%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2653	42%	53%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2654	43%	52%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2655	44%	51%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2656	45%	50%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2657	46%	49%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2658	47%	48%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2659	48%	47%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2660	49%	46%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2661	50%	45%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2662	51%	44%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2663	52%	43%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2664	53%	42%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2665	54%	41%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2666	55%	40%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2667	56%	39%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2668	57%	38%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2669	58%	37%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2670	59%	36%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 6

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10	8 to 10	Range A	Range B	Species C	Species D	Species E
2671	60%	35%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2672	30%	64.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2673	31%	63.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2674	32%	62.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2675	33%	61.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2676	34%	60.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2677	35%	59.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2678	36%	58.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2679	37%	57.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2680	38%	56.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2681	39%	55.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2682	40%	54.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2683	41%	53.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2684	42%	52.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2685	43%	51.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2686	44%	50.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2687	45%	49.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2688	46%	48.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2689	47%	47.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2690	48%	46.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2691	49%	45.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2692	50%	44.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2693	51%	43.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2694	52%	42.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2695	53%	41.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2696	54%	40.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2697	55%	39.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2698	56%	38.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2699	57%	37.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2700	58%	36.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2701	59%	35.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2702	60%	34.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2703	30%	64%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2704	31%	63%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 6

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10	8 to 10	Range A	Range B	Species C	Species D	Species E
2705	32%	62%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2706	33%	61%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2707	34%	60%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2708	35%	59%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2709	36%	58%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2710	37%	57%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2711	38%	56%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2712	39%	55%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2713	40%	54%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2714	41%	53%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2715	42%	52%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2716	43%	51%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2717	44%	50%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2718	45%	49%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2719	46%	48%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2720	47%	47%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2721	48%	46%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2722	49%	45%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2723	50%	44%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2724	51%	43%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2725	52%	42%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2726	53%	41%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2727	54%	40%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2728	55%	39%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2729	56%	38%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2730	57%	37%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2731	58%	36%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2732	59%	35%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2733	60%	34%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2734	30%	63.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2735	31%	62.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2736	32%	61.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2737	33%	60.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2738	34%	59.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 6

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		8 to 10	Range A	Range B	Species C	Species D	Species E
2739	35%	58.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2740	36%	57.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2741	37%	56.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2742	38%	55.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2743	39%	54.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2744	40%	53.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2745	41%	52.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2746	42%	51.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2747	43%	50.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2748	44%	49.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2749	45%	48.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2750	46%	47.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2751	47%	46.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2752	48%	45.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2753	49%	44.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2754	50%	43.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2755	51%	42.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2756	52%	41.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2757	53%	40.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2758	54%	39.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2759	55%	38.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2760	56%	37.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2761	57%	36.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2762	58%	35.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2763	59%	34.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2764	60%	33.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2765	30%	63%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2766	31%	62%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2767	32%	61%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2768	33%	60%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2769	34%	59%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2770	35%	58%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2771	36%	57%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2772	37%	56%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 6

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		8 to 10	Range A	Range B	Species C	Species D	Species E
2773	38%	55%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2774	39%	54%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2775	40%	53%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2776	41%	52%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2777	42%	51%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2778	43%	50%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2779	44%	49%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2780	45%	48%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2781	46%	47%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2782	47%	46%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2783	48%	45%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2784	49%	44%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2785	50%	43%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2786	51%	42%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2787	52%	41%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2788	53%	40%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2789	54%	39%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2790	55%	38%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2791	56%	37%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2792	57%	36%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2793	58%	35%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2794	59%	34%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2795	60%	33%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 7

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		8 to 10	Range A	Range B	Species C	Species D	Species E
2796	30%	70%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2797	31%	69%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2798	32%	68%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2799	33%	67%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2800	34%	66%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2801	35%	65%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2802	36%	64%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2803	37%	63%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2804	38%	62%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2805	39%	61%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2806	40%	60%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2807	41%	59%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2808	42%	58%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2809	43%	57%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2810	44%	56%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2811	45%	55%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2812	46%	54%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2813	47%	53%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2814	48%	52%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2815	49%	51%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2816	50%	50%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2817	51%	49%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2818	52%	48%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2819	53%	47%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2820	54%	46%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2821	55%	45%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2822	56%	44%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2823	57%	43%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2824	58%	42%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2825	59%	41%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2826	60%	40%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2827	30%	69.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2828	31%	68.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2829	32%	67.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 7

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		8 to 10	Range A	Range B	Species C	Species D	Species E
2830	33%	66.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2831	34%	65.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2832	35%	64.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2833	36%	63.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2834	37%	62.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2835	38%	61.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2836	39%	60.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2837	40%	59.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2838	41%	58.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2839	42%	57.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2840	43%	56.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2841	44%	55.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2842	45%	54.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2843	46%	53.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2844	47%	52.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2845	48%	51.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2846	49%	50.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2847	50%	49.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2848	51%	48.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2849	52%	47.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2850	53%	46.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2851	54%	45.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2852	55%	44.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2853	56%	43.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2854	57%	42.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2855	58%	41.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2856	59%	40.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2857	60%	39.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2858	30%	69%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2859	31%	68%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2860	32%	67%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2861	33%	66%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2862	34%	65%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2863	35%	64%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 7

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		8 to 10	Range A	Range B	Species C	Species D	Species E
2864	36%	63%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2865	37%	62%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2866	38%	61%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2867	39%	60%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2868	40%	59%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2869	41%	58%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2870	42%	57%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2871	43%	56%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2872	44%	55%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2873	45%	54%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2874	46%	53%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2875	47%	52%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2876	48%	51%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2877	49%	50%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2878	50%	49%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2879	51%	48%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2880	52%	47%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2881	53%	46%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2882	54%	45%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2883	55%	44%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2884	56%	43%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2885	57%	42%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2886	58%	41%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2887	59%	40%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2888	60%	39%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2889	30%	68.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2890	31%	67.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2891	32%	66.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2892	33%	65.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2893	34%	64.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2894	35%	63.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2895	36%	62.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2896	37%	61.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2897	38%	60.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 7

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		8 to 10	Range A	Range B	Species C	Species D	Species E
2898	39%	59.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2899	40%	58.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2900	41%	57.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2901	42%	56.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2902	43%	55.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2903	44%	54.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2904	45%	53.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2905	46%	52.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2906	47%	51.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2907	48%	50.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2908	49%	49.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2909	50%	48.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2910	51%	47.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2911	52%	46.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2912	53%	45.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2913	54%	44.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2914	55%	43.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2915	56%	42.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2916	57%	41.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2917	58%	40.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2918	59%	39.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2919	60%	38.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2920	30%	68%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2921	31%	67%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2922	32%	66%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2923	33%	65%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2924	34%	64%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2925	35%	63%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2926	36%	62%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2927	37%	61%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2928	38%	60%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2929	39%	59%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2930	40%	58%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2931	41%	57%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 7

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		8 to 10	Range A	Range B	Species C	Species D	Species E
2932	42%	56%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2933	43%	55%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2934	44%	54%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2935	45%	53%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2936	46%	52%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2937	47%	51%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2938	48%	50%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2939	49%	49%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2940	50%	48%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2941	51%	47%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2942	52%	46%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2943	53%	45%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2944	54%	44%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2945	55%	43%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2946	56%	42%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2947	57%	41%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2948	58%	40%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2949	59%	39%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2950	60%	38%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2951	30%	67.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2952	31%	66.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2953	32%	65.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2954	33%	64.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2955	34%	63.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2956	35%	62.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2957	36%	61.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2958	37%	60.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2959	38%	59.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2960	39%	58.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2961	40%	57.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2962	41%	56.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2963	42%	55.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2964	43%	54.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2965	44%	53.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 7

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		8 to 10	Range A	Range B	Species C	Species D	Species E
2966	45%	52.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2967	46%	51.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2968	47%	50.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2969	48%	49.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2970	49%	48.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2971	50%	47.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2972	51%	46.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2973	52%	45.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2974	53%	44.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2975	54%	43.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2976	55%	42.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2977	56%	41.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2978	57%	40.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2979	58%	39.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2980	59%	38.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2981	60%	37.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2982	30%	67%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2983	31%	66%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2984	32%	65%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2985	33%	64%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2986	34%	63%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2987	35%	62%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2988	36%	61%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2989	37%	60%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2990	38%	59%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2991	39%	58%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2992	40%	57%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2993	41%	56%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2994	42%	55%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2995	43%	54%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2996	44%	53%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2997	45%	52%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2998	46%	51%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
2999	47%	50%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 7

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		8 to 10	Range A	Range B	Species C	Species D	Species E
3000	48%	49%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3001	49%	48%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3002	50%	47%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3003	51%	46%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3004	52%	45%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3005	53%	44%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3006	54%	43%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3007	55%	42%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3008	56%	41%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3009	57%	40%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3010	58%	39%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3011	59%	38%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3012	60%	37%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3013	30%	66.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3014	31%	65.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3015	32%	64.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3016	33%	63.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3017	34%	62.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3018	35%	61.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3019	36%	60.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3020	37%	59.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3021	38%	58.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3022	39%	57.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3023	40%	56.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3024	41%	55.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3025	42%	54.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3026	43%	53.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3027	44%	52.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3028	45%	51.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3029	46%	50.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3030	47%	49.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3031	48%	48.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3032	49%	47.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3033	50%	46.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 7

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		8 to 10	Range A	Range B	Species C	Species D	Species E
3034	51%	45.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3035	52%	44.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3036	53%	43.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3037	54%	42.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3038	55%	41.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3039	56%	40.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3040	57%	39.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3041	58%	38.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3042	59%	37.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3043	60%	36.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3044	30%	66%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3045	31%	65%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3046	32%	64%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3047	33%	63%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3048	34%	62%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3049	35%	61%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3050	36%	60%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3051	37%	59%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3052	38%	58%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3053	39%	57%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3054	40%	56%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3055	41%	55%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3056	42%	54%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3057	43%	53%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3058	44%	52%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3059	45%	51%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3060	46%	50%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3061	47%	49%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3062	48%	48%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3063	49%	47%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3064	50%	46%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3065	51%	45%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3066	52%	44%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3067	53%	43%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 7

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		8 to 10	Range A	Range B	Species C	Species D	Species E
3068	54%	42%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3069	55%	41%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3070	56%	40%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3071	57%	39%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3072	58%	38%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3073	59%	37%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3074	60%	36%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3075	30%	65.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3076	31%	64.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3077	32%	63.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3078	33%	62.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3079	34%	61.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3080	35%	60.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3081	36%	59.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3082	37%	58.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3083	38%	57.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3084	39%	56.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3085	40%	55.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3086	41%	54.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3087	42%	53.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3088	43%	52.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3089	44%	51.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3090	45%	50.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3091	46%	49.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3092	47%	48.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3093	48%	47.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3094	49%	46.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3095	50%	45.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3096	51%	44.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3097	52%	43.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3098	53%	42.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3099	54%	41.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3100	55%	40.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3101	56%	39.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 7

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		8 to 10	Range A	Range B	Species C	Species D	Species E
3102	57%	38.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3103	58%	37.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3104	59%	36.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3105	60%	35.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3106	30%	65%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3107	31%	64%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3108	32%	63%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3109	33%	62%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3110	34%	61%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3111	35%	60%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3112	36%	59%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3113	37%	58%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3114	38%	57%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3115	39%	56%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3116	40%	55%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3117	41%	54%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3118	42%	53%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3119	43%	52%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3120	44%	51%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3121	45%	50%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3122	46%	49%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3123	47%	48%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3124	48%	47%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3125	49%	46%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3126	50%	45%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3127	51%	44%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3128	52%	43%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3129	53%	42%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3130	54%	41%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3131	55%	40%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3132	56%	39%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3133	57%	38%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3134	58%	37%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3135	59%	36%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 7

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		8 to 10	Range A	Range B	Species C	Species D	Species E
3136	60%	35%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3137	30%	64.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3138	31%	63.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3139	32%	62.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3140	33%	61.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3141	34%	60.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3142	35%	59.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3143	36%	58.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3144	37%	57.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3145	38%	56.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3146	39%	55.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3147	40%	54.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3148	41%	53.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3149	42%	52.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3150	43%	51.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3151	44%	50.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3152	45%	49.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3153	46%	48.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3154	47%	47.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3155	48%	46.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3156	49%	45.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3157	50%	44.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3158	51%	43.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3159	52%	42.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3160	53%	41.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3161	54%	40.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3162	55%	39.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3163	56%	38.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3164	57%	37.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3165	58%	36.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3166	59%	35.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3167	60%	34.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3168	30%	64%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3169	31%	63%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 7

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		8 to 10	Range A	Range B	Species C	Species D	Species E
3170	32%	62%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3171	33%	61%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3172	34%	60%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3173	35%	59%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3174	36%	58%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3175	37%	57%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3176	38%	56%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3177	39%	55%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3178	40%	54%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3179	41%	53%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3180	42%	52%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3181	43%	51%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3182	44%	50%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3183	45%	49%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3184	46%	48%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3185	47%	47%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3186	48%	46%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3187	49%	45%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3188	50%	44%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3189	51%	43%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3190	52%	42%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3191	53%	41%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3192	54%	40%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3193	55%	39%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3194	56%	38%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3195	57%	37%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3196	58%	36%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3197	59%	35%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3198	60%	34%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3199	30%	63.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3200	31%	62.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3201	32%	61.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3202	33%	60.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3203	34%	59.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 7

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		8 to 10	Range A	Range B	Species C	Species D	Species E
3204	35%	58.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3205	36%	57.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3206	37%	56.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3207	38%	55.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3208	39%	54.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3209	40%	53.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3210	41%	52.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3211	42%	51.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3212	43%	50.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3213	44%	49.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3214	45%	48.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3215	46%	47.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3216	47%	46.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3217	48%	45.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3218	49%	44.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3219	50%	43.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3220	51%	42.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3221	52%	41.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3222	53%	40.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3223	54%	39.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3224	55%	38.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3225	56%	37.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3226	57%	36.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3227	58%	35.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3228	59%	34.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3229	60%	33.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3230	30%	63%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3231	31%	62%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3232	32%	61%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3233	33%	60%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3234	34%	59%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3235	35%	58%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3236	36%	57%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3237	37%	56%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 7

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		8 to 10	Range A	Range B	Species C	Species D	Species E
3238	38%	55%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3239	39%	54%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3240	40%	53%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3241	41%	52%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3242	42%	51%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3243	43%	50%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3244	44%	49%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3245	45%	48%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3246	46%	47%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3247	47%	46%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3248	48%	45%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3249	49%	44%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3250	50%	43%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3251	51%	42%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3252	52%	41%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3253	53%	40%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3254	54%	39%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3255	55%	38%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3256	56%	37%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3257	57%	36%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3258	58%	35%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3259	59%	34%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3260	60%	33%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 8

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		8 to 10	Range A	Range B	Species C	Species D	Species E
3261	30%	70%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3262	31%	69%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3263	32%	68%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3264	33%	67%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3265	34%	66%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3266	35%	65%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3267	36%	64%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3268	37%	63%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3269	38%	62%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3270	39%	61%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3271	40%	60%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3272	41%	59%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3273	42%	58%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3274	43%	57%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3275	44%	56%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3276	45%	55%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3277	46%	54%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3278	47%	53%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3279	48%	52%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3280	49%	51%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3281	50%	50%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3282	51%	49%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3283	52%	48%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3284	53%	47%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3285	54%	46%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3286	55%	45%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3287	56%	44%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3288	57%	43%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3289	58%	42%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3290	59%	41%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3291	60%	40%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3292	30%	69.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3293	31%	68.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3294	32%	67.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 8

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		8 to 10	Range A	Range B	Species C	Species D	Species E
3295	33%	66.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3296	34%	65.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3297	35%	64.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3298	36%	63.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3299	37%	62.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3300	38%	61.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3301	39%	60.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3302	40%	59.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3303	41%	58.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3304	42%	57.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3305	43%	56.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3306	44%	55.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3307	45%	54.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3308	46%	53.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3309	47%	52.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3310	48%	51.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3311	49%	50.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3312	50%	49.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3313	51%	48.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3314	52%	47.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3315	53%	46.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3316	54%	45.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3317	55%	44.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3318	56%	43.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3319	57%	42.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3320	58%	41.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3321	59%	40.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3322	60%	39.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3323	30%	69%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3324	31%	68%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3325	32%	67%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3326	33%	66%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3327	34%	65%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3328	35%	64%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 8

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		8 to 10	Range A	Range B	Species C	Species D	Species E
3329	36%	63%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3330	37%	62%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3331	38%	61%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3332	39%	60%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3333	40%	59%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3334	41%	58%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3335	42%	57%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3336	43%	56%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3337	44%	55%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3338	45%	54%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3339	46%	53%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3340	47%	52%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3341	48%	51%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3342	49%	50%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3343	50%	49%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3344	51%	48%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3345	52%	47%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3346	53%	46%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3347	54%	45%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3348	55%	44%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3349	56%	43%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3350	57%	42%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3351	58%	41%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3352	59%	40%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3353	60%	39%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3354	30%	68.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3355	31%	67.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3356	32%	66.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3357	33%	65.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3358	34%	64.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3359	35%	63.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3360	36%	62.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3361	37%	61.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3362	38%	60.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 8

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		8 to 10	Range A	Range B	Species C	Species D	Species E
3363	39%	59.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3364	40%	58.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3365	41%	57.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3366	42%	56.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3367	43%	55.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3368	44%	54.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3369	45%	53.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3370	46%	52.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3371	47%	51.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3372	48%	50.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3373	49%	49.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3374	50%	48.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3375	51%	47.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3376	52%	46.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3377	53%	45.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3378	54%	44.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3379	55%	43.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3380	56%	42.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3381	57%	41.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3382	58%	40.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3383	59%	39.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3384	60%	38.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3385	30%	68%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3386	31%	67%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3387	32%	66%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3388	33%	65%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3389	34%	64%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3390	35%	63%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3391	36%	62%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3392	37%	61%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3393	38%	60%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3394	39%	59%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3395	40%	58%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3396	41%	57%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 8

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		8 to 10	Range A	Range B	Species C	Species D	Species E
3397	42%	56%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3398	43%	55%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3399	44%	54%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3400	45%	53%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3401	46%	52%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3402	47%	51%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3403	48%	50%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3404	49%	49%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3405	50%	48%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3406	51%	47%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3407	52%	46%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3408	53%	45%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3409	54%	44%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3410	55%	43%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3411	56%	42%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3412	57%	41%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3413	58%	40%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3414	59%	39%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3415	60%	38%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3416	30%	67.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3417	31%	66.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3418	32%	65.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3419	33%	64.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3420	34%	63.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3421	35%	62.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3422	36%	61.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3423	37%	60.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3424	38%	59.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3425	39%	58.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3426	40%	57.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3427	41%	56.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3428	42%	55.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3429	43%	54.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3430	44%	53.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 8

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		8 to 10	Range A	Range B	Species C	Species D	Species E
3431	45%	52.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3432	46%	51.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3433	47%	50.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3434	48%	49.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3435	49%	48.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3436	50%	47.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3437	51%	46.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3438	52%	45.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3439	53%	44.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3440	54%	43.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3441	55%	42.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3442	56%	41.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3443	57%	40.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3444	58%	39.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3445	59%	38.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3446	60%	37.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3447	30%	67%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3448	31%	66%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3449	32%	65%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3450	33%	64%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3451	34%	63%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3452	35%	62%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3453	36%	61%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3454	37%	60%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3455	38%	59%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3456	39%	58%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3457	40%	57%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3458	41%	56%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3459	42%	55%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3460	43%	54%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3461	44%	53%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3462	45%	52%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3463	46%	51%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3464	47%	50%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 8

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		8 to 10	Range A	Range B	Species C	Species D	Species E
3465	48%	49%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3466	49%	48%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3467	50%	47%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3468	51%	46%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3469	52%	45%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3470	53%	44%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3471	54%	43%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3472	55%	42%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3473	56%	41%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3474	57%	40%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3475	58%	39%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3476	59%	38%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3477	60%	37%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3478	30%	66.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3479	31%	65.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3480	32%	64.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3481	33%	63.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3482	34%	62.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3483	35%	61.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3484	36%	60.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3485	37%	59.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3486	38%	58.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3487	39%	57.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3488	40%	56.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3489	41%	55.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3490	42%	54.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3491	43%	53.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3492	44%	52.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3493	45%	51.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3494	46%	50.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3495	47%	49.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3496	48%	48.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3497	49%	47.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3498	50%	46.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 8

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		8 to 10	Range A	Range B	Species C	Species D	Species E
3499	51%	45.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3500	52%	44.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3501	53%	43.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3502	54%	42.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3503	55%	41.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3504	56%	40.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3505	57%	39.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3506	58%	38.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3507	59%	37.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3508	60%	36.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3509	30%	66%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3510	31%	65%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3511	32%	64%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3512	33%	63%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3513	34%	62%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3514	35%	61%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3515	36%	60%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3516	37%	59%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3517	38%	58%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3518	39%	57%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3519	40%	56%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3520	41%	55%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3521	42%	54%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3522	43%	53%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3523	44%	52%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3524	45%	51%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3525	46%	50%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3526	47%	49%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3527	48%	48%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3528	49%	47%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3529	50%	46%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3530	51%	45%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3531	52%	44%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3532	53%	43%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 8

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		8 to 10	Range A	Range B	Species C	Species D	Species E
3533	54%	42%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3534	55%	41%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3535	56%	40%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3536	57%	39%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3537	58%	38%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3538	59%	37%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3539	60%	36%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3540	30%	65.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3541	31%	64.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3542	32%	63.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3543	33%	62.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3544	34%	61.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3545	35%	60.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3546	36%	59.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3547	37%	58.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3548	38%	57.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3549	39%	56.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3550	40%	55.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3551	41%	54.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3552	42%	53.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3553	43%	52.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3554	44%	51.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3555	45%	50.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3556	46%	49.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3557	47%	48.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3558	48%	47.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3559	49%	46.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3560	50%	45.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3561	51%	44.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3562	52%	43.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3563	53%	42.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3564	54%	41.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3565	55%	40.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3566	56%	39.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 8

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		8 to 10	Range A	Range B	Species C	Species D	Species E
3567	57%	38.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3568	58%	37.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3569	59%	36.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3570	60%	35.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3571	30%	65%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3572	31%	64%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3573	32%	63%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3574	33%	62%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3575	34%	61%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3576	35%	60%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3577	36%	59%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3578	37%	58%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3579	38%	57%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3580	39%	56%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3581	40%	55%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3582	41%	54%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3583	42%	53%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3584	43%	52%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3585	44%	51%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3586	45%	50%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3587	46%	49%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3588	47%	48%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3589	48%	47%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3590	49%	46%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3591	50%	45%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3592	51%	44%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3593	52%	43%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3594	53%	42%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3595	54%	41%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3596	55%	40%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3597	56%	39%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3598	57%	38%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3599	58%	37%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3600	59%	36%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 8

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		8 to 10	Range A	Range B	Species C	Species D	Species E
3601	60%	35%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3602	30%	64.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3603	31%	63.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3604	32%	62.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3605	33%	61.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3606	34%	60.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3607	35%	59.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3608	36%	58.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3609	37%	57.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3610	38%	56.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3611	39%	55.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3612	40%	54.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3613	41%	53.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3614	42%	52.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3615	43%	51.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3616	44%	50.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3617	45%	49.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3618	46%	48.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3619	47%	47.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3620	48%	46.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3621	49%	45.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3622	50%	44.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3623	51%	43.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3624	52%	42.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3625	53%	41.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3626	54%	40.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3627	55%	39.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3628	56%	38.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3629	57%	37.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3630	58%	36.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3631	59%	35.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3632	60%	34.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3633	30%	64%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3634	31%	63%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 8

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		8 to 10	Range A	Range B	Species C	Species D	Species E
3635	32%	62%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3636	33%	61%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3637	34%	60%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3638	35%	59%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3639	36%	58%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3640	37%	57%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3641	38%	56%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3642	39%	55%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3643	40%	54%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3644	41%	53%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3645	42%	52%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3646	43%	51%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3647	44%	50%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3648	45%	49%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3649	46%	48%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3650	47%	47%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3651	48%	46%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3652	49%	45%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3653	50%	44%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3654	51%	43%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3655	52%	42%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3656	53%	41%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3657	54%	40%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3658	55%	39%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3659	56%	38%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3660	57%	37%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3661	58%	36%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3662	59%	35%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3663	60%	34%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3664	30%	63.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3665	31%	62.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3666	32%	61.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3667	33%	60.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3668	34%	59.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 8

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		8 to 10	Range A	Range B	Species C	Species D	Species E
3669	35%	58.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3670	36%	57.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3671	37%	56.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3672	38%	55.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3673	39%	54.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3674	40%	53.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3675	41%	52.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3676	42%	51.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3677	43%	50.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3678	44%	49.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3679	45%	48.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3680	46%	47.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3681	47%	46.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3682	48%	45.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3683	49%	44.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3684	50%	43.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3685	51%	42.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3686	52%	41.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3687	53%	40.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3688	54%	39.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3689	55%	38.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3690	56%	37.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3691	57%	36.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3692	58%	35.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3693	59%	34.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3694	60%	33.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3695	30%	63%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3696	31%	62%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3697	32%	61%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3698	33%	60%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3699	34%	59%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3700	35%	58%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3701	36%	57%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3702	37%	56%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 8

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		8 to 10	Range A	Range B	Species C	Species D	Species E
3703	38%	55%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3704	39%	54%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3705	40%	53%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3706	41%	52%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3707	42%	51%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3708	43%	50%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3709	44%	49%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3710	45%	48%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3711	46%	47%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3712	47%	46%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3713	48%	45%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3714	49%	44%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3715	50%	43%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3716	51%	42%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3717	52%	41%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3718	53%	40%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3719	54%	39%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3720	55%	38%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3721	56%	37%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3722	57%	36%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3723	58%	35%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3724	59%	34%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3725	60%	33%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 9

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	8 to 10	Range A	Range B	Species C	Species D	Species E
3726	30%	70%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3727	31%	69%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3728	32%	68%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3729	33%	67%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3730	34%	66%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3731	35%	65%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3732	36%	64%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3733	37%	63%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3734	38%	62%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3735	39%	61%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3736	40%	60%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3737	41%	59%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3738	42%	58%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3739	43%	57%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3740	44%	56%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3741	45%	55%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3742	46%	54%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3743	47%	53%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3744	48%	52%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3745	49%	51%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3746	50%	50%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3747	51%	49%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3748	52%	48%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3749	53%	47%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3750	54%	46%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3751	55%	45%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3752	56%	44%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3753	57%	43%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3754	58%	42%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3755	59%	41%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3756	60%	40%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3757	30%	69.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3758	31%	68.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 9

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	8 to 10	Range A	Range B	Species C	Species D	Species E
3759	32%	67.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3760	33%	66.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3761	34%	65.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3762	35%	64.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3763	36%	63.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3764	37%	62.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3765	38%	61.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3766	39%	60.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3767	40%	59.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3768	41%	58.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3769	42%	57.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3770	43%	56.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3771	44%	55.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3772	45%	54.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3773	46%	53.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3774	47%	52.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3775	48%	51.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3776	49%	50.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3777	50%	49.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3778	51%	48.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3779	52%	47.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3780	53%	46.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3781	54%	45.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3782	55%	44.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3783	56%	43.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3784	57%	42.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3785	58%	41.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3786	59%	40.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3787	60%	39.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3788	30%	69%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3789	31%	68%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3790	32%	67%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3791	33%	66%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 9

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	8 to 10	Range A	Range B	Species C	Species D	Species E
3792	34%	65%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3793	35%	64%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3794	36%	63%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3795	37%	62%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3796	38%	61%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3797	39%	60%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3798	40%	59%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3799	41%	58%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3800	42%	57%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3801	43%	56%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3802	44%	55%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3803	45%	54%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3804	46%	53%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3805	47%	52%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3806	48%	51%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3807	49%	50%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3808	50%	49%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3809	51%	48%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3810	52%	47%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3811	53%	46%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3812	54%	45%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3813	55%	44%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3814	56%	43%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3815	57%	42%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3816	58%	41%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3817	59%	40%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3818	60%	39%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3819	30%	68.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3820	31%	67.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3821	32%	66.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3822	33%	65.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3823	34%	64.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3824	35%	63.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 9

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	8 to 10	Range A	Range B	Species C	Species D	Species E
3825	36%	62.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3826	37%	61.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3827	38%	60.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3828	39%	59.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3829	40%	58.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3830	41%	57.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3831	42%	56.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3832	43%	55.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3833	44%	54.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3834	45%	53.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3835	46%	52.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3836	47%	51.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3837	48%	50.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3838	49%	49.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3839	50%	48.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3840	51%	47.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3841	52%	46.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3842	53%	45.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3843	54%	44.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3844	55%	43.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3845	56%	42.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3846	57%	41.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3847	58%	40.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3848	59%	39.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3849	60%	38.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3850	30%	68%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3851	31%	67%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3852	32%	66%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3853	33%	65%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3854	34%	64%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3855	35%	63%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3856	36%	62%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3857	37%	61%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 9

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	8 to 10	Range A	Range B	Species C	Species D	Species E
3858	38%	60%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3859	39%	59%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3860	40%	58%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3861	41%	57%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3862	42%	56%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3863	43%	55%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3864	44%	54%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3865	45%	53%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3866	46%	52%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3867	47%	51%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3868	48%	50%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3869	49%	49%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3870	50%	48%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3871	51%	47%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3872	52%	46%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3873	53%	45%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3874	54%	44%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3875	55%	43%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3876	56%	42%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3877	57%	41%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3878	58%	40%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3879	59%	39%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3880	60%	38%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3881	30%	67.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3882	31%	66.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3883	32%	65.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3884	33%	64.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3885	34%	63.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3886	35%	62.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3887	36%	61.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3888	37%	60.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3889	38%	59.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3890	39%	58.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 9

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	8 to 10	Range A	Range B	Species C	Species D	Species E
3891	40%	57.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3892	41%	56.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3893	42%	55.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3894	43%	54.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3895	44%	53.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3896	45%	52.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3897	46%	51.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3898	47%	50.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3899	48%	49.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3900	49%	48.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3901	50%	47.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3902	51%	46.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3903	52%	45.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3904	53%	44.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3905	54%	43.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3906	55%	42.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3907	56%	41.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3908	57%	40.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3909	58%	39.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3910	59%	38.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3911	60%	37.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3912	30%	67%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3913	31%	66%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3914	32%	65%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3915	33%	64%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3916	34%	63%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3917	35%	62%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3918	36%	61%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3919	37%	60%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3920	38%	59%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3921	39%	58%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3922	40%	57%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3923	41%	56%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 9

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	8 to 10	Range A	Range B	Species C	Species D	Species E
3924	42%	55%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3925	43%	54%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3926	44%	53%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3927	45%	52%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3928	46%	51%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3929	47%	50%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3930	48%	49%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3931	49%	48%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3932	50%	47%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3933	51%	46%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3934	52%	45%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3935	53%	44%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3936	54%	43%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3937	55%	42%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3938	56%	41%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3939	57%	40%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3940	58%	39%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3941	59%	38%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3942	60%	37%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3943	30%	66.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3944	31%	65.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3945	32%	64.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3946	33%	63.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3947	34%	62.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3948	35%	61.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3949	36%	60.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3950	37%	59.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3951	38%	58.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3952	39%	57.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3953	40%	56.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3954	41%	55.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3955	42%	54.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3956	43%	53.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 9

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	8 to 10	Range A	Range B	Species C	Species D	Species E
3957	44%	52.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3958	45%	51.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3959	46%	50.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3960	47%	49.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3961	48%	48.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3962	49%	47.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3963	50%	46.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3964	51%	45.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3965	52%	44.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3966	53%	43.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3967	54%	42.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3968	55%	41.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3969	56%	40.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3970	57%	39.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3971	58%	38.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3972	59%	37.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3973	60%	36.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3974	30%	66%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3975	31%	65%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3976	32%	64%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3977	33%	63%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3978	34%	62%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3979	35%	61%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3980	36%	60%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3981	37%	59%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3982	38%	58%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3983	39%	57%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3984	40%	56%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3985	41%	55%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3986	42%	54%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3987	43%	53%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3988	44%	52%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3989	45%	51%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 9

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	8 to 10	Range A	Range B	Species C	Species D	Species E
3990	46%	50%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3991	47%	49%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3992	48%	48%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3993	49%	47%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3994	50%	46%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3995	51%	45%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3996	52%	44%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3997	53%	43%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3998	54%	42%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
3999	55%	41%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4000	56%	40%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4001	57%	39%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4002	58%	38%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4003	59%	37%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4004	60%	36%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4005	30%	65.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4006	31%	64.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4007	32%	63.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4008	33%	62.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4009	34%	61.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4010	35%	60.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4011	36%	59.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4012	37%	58.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4013	38%	57.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4014	39%	56.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4015	40%	55.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4016	41%	54.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4017	42%	53.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4018	43%	52.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4019	44%	51.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4020	45%	50.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4021	46%	49.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4022	47%	48.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 9

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	8 to 10	Range A	Range B	Species C	Species D	Species E
4023	48%	47.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4024	49%	46.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4025	50%	45.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4026	51%	44.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4027	52%	43.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4028	53%	42.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4029	54%	41.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4030	55%	40.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4031	56%	39.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4032	57%	38.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4033	58%	37.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4034	59%	36.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4035	60%	35.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4036	30%	65%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4037	31%	64%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4038	32%	63%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4039	33%	62%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4040	34%	61%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4041	35%	60%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4042	36%	59%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4043	37%	58%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4044	38%	57%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4045	39%	56%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4046	40%	55%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4047	41%	54%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4048	42%	53%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4049	43%	52%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4050	44%	51%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4051	45%	50%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4052	46%	49%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4053	47%	48%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4054	48%	47%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4055	49%	46%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 9

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	8 to 10	Range A	Range B	Species C	Species D	Species E
4056	50%	45%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4057	51%	44%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4058	52%	43%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4059	53%	42%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4060	54%	41%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4061	55%	40%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4062	56%	39%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4063	57%	38%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4064	58%	37%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4065	59%	36%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4066	60%	35%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4067	30%	64.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4068	31%	63.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4069	32%	62.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4070	33%	61.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4071	34%	60.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4072	35%	59.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4073	36%	58.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4074	37%	57.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4075	38%	56.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4076	39%	55.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4077	40%	54.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4078	41%	53.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4079	42%	52.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4080	43%	51.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4081	44%	50.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4082	45%	49.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4083	46%	48.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4084	47%	47.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4085	48%	46.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4086	49%	45.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4087	50%	44.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4088	51%	43.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 9

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	8 to 10	Range A	Range B	Species C	Species D	Species E
4089	52%	42.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4090	53%	41.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4091	54%	40.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4092	55%	39.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4093	56%	38.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4094	57%	37.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4095	58%	36.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4096	59%	35.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4097	60%	34.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4098	30%	64%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4099	31%	63%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4100	32%	62%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4101	33%	61%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4102	34%	60%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4103	35%	59%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4104	36%	58%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4105	37%	57%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4106	38%	56%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4107	39%	55%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4108	40%	54%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4109	41%	53%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4110	42%	52%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4111	43%	51%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4112	44%	50%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4113	45%	49%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4114	46%	48%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4115	47%	47%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4116	48%	46%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4117	49%	45%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4118	50%	44%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4119	51%	43%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4120	52%	42%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4121	53%	41%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 9

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	8 to 10	Range A	Range B	Species C	Species D	Species E
4122	54%	40%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4123	55%	39%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4124	56%	38%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4125	57%	37%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4126	58%	36%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4127	59%	35%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4128	60%	34%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4129	30%	63.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4130	31%	62.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4131	32%	61.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4132	33%	60.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4133	34%	59.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4134	35%	58.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4135	36%	57.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4136	37%	56.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4137	38%	55.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4138	39%	54.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4139	40%	53.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4140	41%	52.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4141	42%	51.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4142	43%	50.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4143	44%	49.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4144	45%	48.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4145	46%	47.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4146	47%	46.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4147	48%	45.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4148	49%	44.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4149	50%	43.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4150	51%	42.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4151	52%	41.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4152	53%	40.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4153	54%	39.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4154	55%	38.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 9

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12	8 to 10	Range A	Range B	Species C	Species D	Species E
4155	56%	37.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4156	57%	36.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4157	58%	35.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4158	59%	34.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4159	60%	33.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4160	30%	63%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4161	31%	62%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4162	32%	61%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4163	33%	60%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4164	34%	59%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4165	35%	58%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4166	36%	57%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4167	37%	56%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4168	38%	55%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4169	39%	54%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4170	40%	53%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4171	41%	52%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4172	42%	51%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4173	43%	50%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4174	44%	49%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4175	45%	48%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4176	46%	47%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4177	47%	46%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4178	48%	45%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4179	49%	44%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4180	50%	43%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4181	51%	42%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4182	52%	41%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4183	53%	40%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4184	54%	39%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4185	55%	38%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4186	56%	37%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4187	57%	36%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 9

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)			
	9 to 11	10 to 12		8 to 10	Range A	Range B	Species C	Species D	Species E
4188	58%	35%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4189	59%	34%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4190	60%	33%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 10

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		8 to 10	Range A	Range B	Species C	Species D	Species E
4191	30%	70%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4192	31%	69%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4193	32%	68%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4194	33%	67%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4195	34%	66%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4196	35%	65%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4197	36%	64%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4198	37%	63%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4199	38%	62%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4200	39%	61%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4201	40%	60%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4202	41%	59%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4203	42%	58%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4204	43%	57%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4205	44%	56%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4206	45%	55%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4207	46%	54%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4208	47%	53%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4209	48%	52%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4210	49%	51%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4211	50%	50%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4212	51%	49%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4213	52%	48%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4214	53%	47%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4215	54%	46%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4216	55%	45%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4217	56%	44%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4218	57%	43%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4219	58%	42%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4220	59%	41%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4221	60%	40%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4222	30%	70%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4223	31%	69%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4224	32%	68%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 10

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		8 to 10	Range A	Range B	Species C	Species D	Species E
4225	33%	67%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4226	34%	66%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4227	35%	65%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4228	36%	64%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4229	37%	63%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4230	38%	62%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4231	39%	61%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4232	40%	60%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4233	41%	59%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4234	42%	58%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4235	43%	57%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4236	44%	56%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4237	45%	55%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4238	46%	54%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4239	47%	53%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4240	48%	52%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4241	49%	51%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4242	50%	50%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4243	51%	49%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4244	52%	48%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4245	53%	47%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4246	54%	46%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4247	55%	45%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4248	56%	44%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4249	57%	43%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4250	58%	42%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4251	59%	41%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4252	60%	40%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4253	30%	69%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4254	31%	68%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4255	32%	67%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4256	33%	66%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4257	34%	65%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4258	35%	64%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 10

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		8 to 10	Range A	Range B	Species C	Species D	Species E
4259	36%	63%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4260	37%	62%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4261	38%	61%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4262	39%	60%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4263	40%	59%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4264	41%	58%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4265	42%	57%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4266	43%	56%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4267	44%	55%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4268	45%	54%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4269	46%	53%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4270	47%	52%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4271	48%	51%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4272	49%	50%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4273	50%	49%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4274	51%	48%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4275	52%	47%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4276	53%	46%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4277	54%	45%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4278	55%	44%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4279	56%	43%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4280	57%	42%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4281	58%	41%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4282	59%	40%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4283	60%	39%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4284	30%	69%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4285	31%	68%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4286	32%	67%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4287	33%	66%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4288	34%	65%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4289	35%	64%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4290	36%	63%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4291	37%	62%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4292	38%	61%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 10

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		8 to 10	Range A	Range B	Species C	Species D	Species E
4293	39%	60%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4294	40%	59%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4295	41%	58%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4296	42%	57%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4297	43%	56%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4298	44%	55%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4299	45%	54%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4300	46%	53%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4301	47%	52%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4302	48%	51%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4303	49%	50%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4304	50%	49%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4305	51%	48%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4306	52%	47%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4307	53%	46%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4308	54%	45%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4309	55%	44%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4310	56%	43%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4311	57%	42%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4312	58%	41%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4313	59%	40%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4314	60%	39%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4315	30%	68%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4316	31%	67%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4317	32%	66%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4318	33%	65%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4319	34%	64%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4320	35%	63%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4321	36%	62%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4322	37%	61%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4323	38%	60%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4324	39%	59%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4325	40%	58%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4326	41%	57%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 10

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		8 to 10	Range A	Range B	Species C	Species D	Species E
4327	42%	56%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4328	43%	55%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4329	44%	54%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4330	45%	53%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4331	46%	52%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4332	47%	51%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4333	48%	50%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4334	49%	49%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4335	50%	48%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4336	51%	47%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4337	52%	46%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4338	53%	45%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4339	54%	44%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4340	55%	43%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4341	56%	42%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4342	57%	41%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4343	58%	40%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4344	59%	39%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4345	60%	38%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4346	30%	68%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4347	31%	67%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4348	32%	66%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4349	33%	65%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4350	34%	64%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4351	35%	63%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4352	36%	62%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4353	37%	61%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4354	38%	60%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4355	39%	59%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4356	40%	58%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4357	41%	57%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4358	42%	56%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4359	43%	55%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4360	44%	54%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 10

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		8 to 10	Range A	Range B	Species C	Species D	Species E
4361	45%	53%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4362	46%	52%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4363	47%	51%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4364	48%	50%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4365	49%	49%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4366	50%	48%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4367	51%	47%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4368	52%	46%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4369	53%	45%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4370	54%	44%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4371	55%	43%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4372	56%	42%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4373	57%	41%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4374	58%	40%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4375	59%	39%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4376	60%	38%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4377	30%	67%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4378	31%	66%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4379	32%	65%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4380	33%	64%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4381	34%	63%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4382	35%	62%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4383	36%	61%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4384	37%	60%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4385	38%	59%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4386	39%	58%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4387	40%	57%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4388	41%	56%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4389	42%	55%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4390	43%	54%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4391	44%	53%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4392	45%	52%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4393	46%	51%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4394	47%	50%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 10

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		8 to 10	Range A	Range B	Species C	Species D	Species E
4395	48%	49%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4396	49%	48%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4397	50%	47%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4398	51%	46%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4399	52%	45%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4400	53%	44%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4401	54%	43%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4402	55%	42%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4403	56%	41%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4404	57%	40%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4405	58%	39%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4406	59%	38%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4407	60%	37%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4408	30%	67%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4409	31%	66%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4410	32%	65%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4411	33%	64%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4412	34%	63%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4413	35%	62%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4414	36%	61%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4415	37%	60%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4416	38%	59%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4417	39%	58%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4418	40%	57%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4419	41%	56%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4420	42%	55%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4421	43%	54%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4422	44%	53%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4423	45%	52%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4424	46%	51%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4425	47%	50%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4426	48%	49%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4427	49%	48%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4428	50%	47%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 10

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		8 to 10	Range A	Range B	Species C	Species D	Species E
4429	51%	46%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4430	52%	45%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4431	53%	44%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4432	54%	43%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4433	55%	42%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4434	56%	41%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4435	57%	40%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4436	58%	39%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4437	59%	38%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4438	60%	37%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4439	30%	66%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4440	31%	65%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4441	32%	64%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4442	33%	63%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4443	34%	62%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4444	35%	61%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4445	36%	60%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4446	37%	59%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4447	38%	58%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4448	39%	57%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4449	40%	56%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4450	41%	55%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4451	42%	54%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4452	43%	53%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4453	44%	52%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4454	45%	51%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4455	46%	50%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4456	47%	49%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4457	48%	48%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4458	49%	47%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4459	50%	46%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4460	51%	45%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4461	52%	44%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4462	53%	43%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 10

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		8 to 10	Range A	Range B	Species C	Species D	Species E
4463	54%	42%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4464	55%	41%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4465	56%	40%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4466	57%	39%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4467	58%	38%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4468	59%	37%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4469	60%	36%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4470	30%	66%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4471	31%	65%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4472	32%	64%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4473	33%	63%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4474	34%	62%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4475	35%	61%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4476	36%	60%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4477	37%	59%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4478	38%	58%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4479	39%	57%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4480	40%	56%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4481	41%	55%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4482	42%	54%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4483	43%	53%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4484	44%	52%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4485	45%	51%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4486	46%	50%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4487	47%	49%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4488	48%	48%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4489	49%	47%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4490	50%	46%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4491	51%	45%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4492	52%	44%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4493	53%	43%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4494	54%	42%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4495	55%	41%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4496	56%	40%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 10

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		8 to 10	Range A	Range B	Species C	Species D	Species E
4497	57%	39%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4498	58%	38%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4499	59%	37%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4500	60%	36%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4501	30%	65%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4502	31%	64%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4503	32%	63%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4504	33%	62%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4505	34%	61%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4506	35%	60%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4507	36%	59%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4508	37%	58%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4509	38%	57%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4510	39%	56%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4511	40%	55%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4512	41%	54%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4513	42%	53%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4514	43%	52%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4515	44%	51%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4516	45%	50%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4517	46%	49%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4518	47%	48%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4519	48%	47%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4520	49%	46%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4521	50%	45%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4522	51%	44%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4523	52%	43%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4524	53%	42%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4525	54%	41%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4526	55%	40%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4527	56%	39%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4528	57%	38%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4529	58%	37%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4530	59%	36%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 10

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)			
	8	10 to 12		8 to 10	Range A	Range B	Species C	Species D	Species E
4531	60%	35%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4532	30%	65%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4533	31%	64%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4534	32%	63%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4535	33%	62%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4536	34%	61%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4537	35%	60%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4538	36%	59%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4539	37%	58%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4540	38%	57%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4541	39%	56%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4542	40%	55%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4543	41%	54%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4544	42%	53%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4545	43%	52%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4546	44%	51%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4547	45%	50%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4548	46%	49%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4549	47%	48%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4550	48%	47%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4551	49%	46%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4552	50%	45%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4553	51%	44%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4554	52%	43%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4555	53%	42%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4556	54%	41%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4557	55%	40%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4558	56%	39%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4559	57%	38%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4560	58%	37%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4561	59%	36%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4562	60%	35%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4563	30%	64%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4564	31%	63%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 10

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		8 to 10	Range A	Range B	Species C	Species D	Species E
4565	32%	62%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4566	33%	61%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4567	34%	60%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4568	35%	59%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4569	36%	58%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4570	37%	57%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4571	38%	56%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4572	39%	55%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4573	40%	54%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4574	41%	53%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4575	42%	52%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4576	43%	51%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4577	44%	50%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4578	45%	49%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4579	46%	48%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4580	47%	47%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4581	48%	46%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4582	49%	45%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4583	50%	44%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4584	51%	43%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4585	52%	42%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4586	53%	41%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4587	54%	40%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4588	55%	39%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4589	56%	38%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4590	57%	37%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4591	58%	36%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4592	59%	35%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4593	60%	34%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4594	30%	64%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4595	31%	63%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4596	32%	62%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4597	33%	61%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4598	34%	60%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 10

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		8 to 10	Range A	Range B	Species C	Species D	Species E
4599	35%	59%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4600	36%	58%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4601	37%	57%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4602	38%	56%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4603	39%	55%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4604	40%	54%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4605	41%	53%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4606	42%	52%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4607	43%	51%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4608	44%	50%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4609	45%	49%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4610	46%	48%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4611	47%	47%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4612	48%	46%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4613	49%	45%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4614	50%	44%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4615	51%	43%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4616	52%	42%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4617	53%	41%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4618	54%	40%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4619	55%	39%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4620	56%	38%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4621	57%	37%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4622	58%	36%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4623	59%	35%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4624	60%	34%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4625	30%	63%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4626	31%	62%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4627	32%	61%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4628	33%	60%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4629	34%	59%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4630	35%	58%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4631	36%	57%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4632	37%	56%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 10

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12		8 to 10	Range A	Range B	Species C	Species D	Species E
4633	38%	55%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4634	39%	54%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4635	40%	53%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4636	41%	52%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4637	42%	51%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4638	43%	50%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4639	44%	49%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4640	45%	48%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4641	46%	47%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4642	47%	46%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4643	48%	45%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4644	49%	44%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4645	50%	43%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4646	51%	42%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4647	52%	41%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4648	53%	40%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4649	54%	39%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4650	55%	38%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4651	56%	37%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4652	57%	36%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4653	58%	35%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4654	59%	34%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4655	60%	33%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 11

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10	9 to 11	Range A	Range B	Species C	Species D	Species E
4656	30%	70%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4657	31%	69%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4658	32%	68%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4659	33%	67%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4660	34%	66%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4661	35%	65%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4662	36%	64%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4663	37%	63%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4664	38%	62%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4665	39%	61%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4666	40%	60%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4667	41%	59%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4668	42%	58%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4669	43%	57%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4670	44%	56%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4671	45%	55%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4672	46%	54%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4673	47%	53%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4674	48%	52%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4675	49%	51%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4676	50%	50%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4677	51%	49%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4678	52%	48%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4679	53%	47%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4680	54%	46%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4681	55%	45%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4682	56%	44%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4683	57%	43%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4684	58%	42%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4685	59%	41%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4686	60%	40%	0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4687	30%	69.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4688	31%	68.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 11

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10	9 to 11	Range A	Range B	Species C	Species D	Species E
4689	32%	67.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4690	33%	66.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4691	34%	65.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4692	35%	64.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4693	36%	63.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4694	37%	62.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4695	38%	61.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4696	39%	60.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4697	40%	59.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4698	41%	58.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4699	42%	57.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4700	43%	56.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4701	44%	55.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4702	45%	54.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4703	46%	53.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4704	47%	52.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4705	48%	51.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4706	49%	50.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4707	50%	49.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4708	51%	48.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4709	52%	47.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4710	53%	46.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4711	54%	45.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4712	55%	44.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4713	56%	43.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4714	57%	42.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4715	58%	41.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4716	59%	40.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4717	60%	39.5%	0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4718	30%	69%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4719	31%	68%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4720	32%	67%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4721	33%	66%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 11

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10	9 to 11	Range A	Range B	Species C	Species D	Species E
4722	34%	65%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4723	35%	64%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4724	36%	63%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4725	37%	62%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4726	38%	61%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4727	39%	60%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4728	40%	59%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4729	41%	58%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4730	42%	57%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4731	43%	56%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4732	44%	55%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4733	45%	54%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4734	46%	53%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4735	47%	52%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4736	48%	51%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4737	49%	50%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4738	50%	49%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4739	51%	48%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4740	52%	47%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4741	53%	46%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4742	54%	45%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4743	55%	44%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4744	56%	43%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4745	57%	42%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4746	58%	41%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4747	59%	40%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4748	60%	39%	1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4749	30%	68.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4750	31%	67.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4751	32%	66.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4752	33%	65.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4753	34%	64.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4754	35%	63.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 11

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10	9 to 11	Range A	Range B	Species C	Species D	Species E
4755	36%	62.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4756	37%	61.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4757	38%	60.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4758	39%	59.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4759	40%	58.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4760	41%	57.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4761	42%	56.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4762	43%	55.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4763	44%	54.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4764	45%	53.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4765	46%	52.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4766	47%	51.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4767	48%	50.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4768	49%	49.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4769	50%	48.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4770	51%	47.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4771	52%	46.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4772	53%	45.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4773	54%	44.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4774	55%	43.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4775	56%	42.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4776	57%	41.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4777	58%	40.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4778	59%	39.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4779	60%	38.5%	1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4780	30%	68%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4781	31%	67%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4782	32%	66%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4783	33%	65%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4784	34%	64%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4785	35%	63%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4786	36%	62%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4787	37%	61%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 11

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10	9 to 11	Range A	Range B	Species C	Species D	Species E
4788	38%	60%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4789	39%	59%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4790	40%	58%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4791	41%	57%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4792	42%	56%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4793	43%	55%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4794	44%	54%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4795	45%	53%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4796	46%	52%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4797	47%	51%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4798	48%	50%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4799	49%	49%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4800	50%	48%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4801	51%	47%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4802	52%	46%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4803	53%	45%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4804	54%	44%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4805	55%	43%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4806	56%	42%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4807	57%	41%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4808	58%	40%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4809	59%	39%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4810	60%	38%	2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4811	30%	67.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4812	31%	66.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4813	32%	65.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4814	33%	64.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4815	34%	63.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4816	35%	62.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4817	36%	61.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4818	37%	60.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4819	38%	59.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4820	39%	58.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 11

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10	9 to 11	Range A	Range B	Species C	Species D	Species E
4821	40%	57.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4822	41%	56.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4823	42%	55.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4824	43%	54.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4825	44%	53.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4826	45%	52.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4827	46%	51.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4828	47%	50.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4829	48%	49.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4830	49%	48.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4831	50%	47.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4832	51%	46.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4833	52%	45.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4834	53%	44.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4835	54%	43.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4836	55%	42.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4837	56%	41.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4838	57%	40.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4839	58%	39.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4840	59%	38.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4841	60%	37.5%	2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4842	30%	67%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4843	31%	66%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4844	32%	65%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4845	33%	64%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4846	34%	63%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4847	35%	62%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4848	36%	61%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4849	37%	60%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4850	38%	59%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4851	39%	58%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4852	40%	57%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4853	41%	56%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 11

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10	9 to 11	Range A	Range B	Species C	Species D	Species E
4854	42%	55%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4855	43%	54%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4856	44%	53%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4857	45%	52%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4858	46%	51%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4859	47%	50%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4860	48%	49%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4861	49%	48%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4862	50%	47%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4863	51%	46%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4864	52%	45%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4865	53%	44%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4866	54%	43%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4867	55%	42%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4868	56%	41%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4869	57%	40%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4870	58%	39%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4871	59%	38%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4872	60%	37%	3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4873	30%	66.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4874	31%	65.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4875	32%	64.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4876	33%	63.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4877	34%	62.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4878	35%	61.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4879	36%	60.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4880	37%	59.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4881	38%	58.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4882	39%	57.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4883	40%	56.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4884	41%	55.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4885	42%	54.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4886	43%	53.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 11

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10	9 to 11	Range A	Range B	Species C	Species D	Species E
4887	44%	52.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4888	45%	51.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4889	46%	50.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4890	47%	49.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4891	48%	48.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4892	49%	47.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4893	50%	46.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4894	51%	45.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4895	52%	44.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4896	53%	43.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4897	54%	42.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4898	55%	41.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4899	56%	40.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4900	57%	39.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4901	58%	38.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4902	59%	37.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4903	60%	36.5%	3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4904	30%	66%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4905	31%	65%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4906	32%	64%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4907	33%	63%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4908	34%	62%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4909	35%	61%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4910	36%	60%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4911	37%	59%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4912	38%	58%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4913	39%	57%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4914	40%	56%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4915	41%	55%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4916	42%	54%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4917	43%	53%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4918	44%	52%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4919	45%	51%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 11

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10	9 to 11	Range A	Range B	Species C	Species D	Species E
4920	46%	50%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4921	47%	49%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4922	48%	48%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4923	49%	47%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4924	50%	46%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4925	51%	45%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4926	52%	44%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4927	53%	43%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4928	54%	42%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4929	55%	41%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4930	56%	40%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4931	57%	39%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4932	58%	38%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4933	59%	37%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4934	60%	36%	4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4935	30%	65.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4936	31%	64.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4937	32%	63.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4938	33%	62.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4939	34%	61.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4940	35%	60.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4941	36%	59.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4942	37%	58.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4943	38%	57.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4944	39%	56.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4945	40%	55.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4946	41%	54.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4947	42%	53.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4948	43%	52.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4949	44%	51.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4950	45%	50.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4951	46%	49.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4952	47%	48.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 11

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10	9 to 11	Range A	Range B	Species C	Species D	Species E
4953	48%	47.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4954	49%	46.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4955	50%	45.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4956	51%	44.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4957	52%	43.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4958	53%	42.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4959	54%	41.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4960	55%	40.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4961	56%	39.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4962	57%	38.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4963	58%	37.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4964	59%	36.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4965	60%	35.5%	4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4966	30%	65%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4967	31%	64%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4968	32%	63%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4969	33%	62%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4970	34%	61%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4971	35%	60%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4972	36%	59%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4973	37%	58%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4974	38%	57%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4975	39%	56%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4976	40%	55%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4977	41%	54%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4978	42%	53%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4979	43%	52%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4980	44%	51%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4981	45%	50%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4982	46%	49%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4983	47%	48%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4984	48%	47%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4985	49%	46%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 11

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10	9 to 11	Range A	Range B	Species C	Species D	Species E
4986	50%	45%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4987	51%	44%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4988	52%	43%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4989	53%	42%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4990	54%	41%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4991	55%	40%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4992	56%	39%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4993	57%	38%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4994	58%	37%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4995	59%	36%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4996	60%	35%	5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4997	30%	64.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4998	31%	63.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
4999	32%	62.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5000	33%	61.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5001	34%	60.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5002	35%	59.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5003	36%	58.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5004	37%	57.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5005	38%	56.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5006	39%	55.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5007	40%	54.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5008	41%	53.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5009	42%	52.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5010	43%	51.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5011	44%	50.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5012	45%	49.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5013	46%	48.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5014	47%	47.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5015	48%	46.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5016	49%	45.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5017	50%	44.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5018	51%	43.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 11

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10	9 to 11	Range A	Range B	Species C	Species D	Species E
5019	52%	42.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5020	53%	41.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5021	54%	40.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5022	55%	39.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5023	56%	38.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5024	57%	37.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5025	58%	36.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5026	59%	35.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5027	60%	34.5%	5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5028	30%	64%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5029	31%	63%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5030	32%	62%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5031	33%	61%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5032	34%	60%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5033	35%	59%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5034	36%	58%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5035	37%	57%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5036	38%	56%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5037	39%	55%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5038	40%	54%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5039	41%	53%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5040	42%	52%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5041	43%	51%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5042	44%	50%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5043	45%	49%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5044	46%	48%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5045	47%	47%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5046	48%	46%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5047	49%	45%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5048	50%	44%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5049	51%	43%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5050	52%	42%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5051	53%	41%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 11

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10	9 to 11	Range A	Range B	Species C	Species D	Species E
5052	54%	40%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5053	55%	39%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5054	56%	38%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5055	57%	37%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5056	58%	36%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5057	59%	35%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5058	60%	34%	6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5059	30%	63.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5060	31%	62.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5061	32%	61.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5062	33%	60.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5063	34%	59.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5064	35%	58.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5065	36%	57.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5066	37%	56.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5067	38%	55.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5068	39%	54.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5069	40%	53.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5070	41%	52.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5071	42%	51.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5072	43%	50.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5073	44%	49.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5074	45%	48.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5075	46%	47.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5076	47%	46.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5077	48%	45.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5078	49%	44.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5079	50%	43.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5080	51%	42.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5081	52%	41.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5082	53%	40.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5083	54%	39.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5084	55%	38.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 11

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10	9 to 11	Range A	Range B	Species C	Species D	Species E
5085	56%	37.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5086	57%	36.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5087	58%	35.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5088	59%	34.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5089	60%	33.5%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5090	30%	63%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5091	31%	62%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5092	32%	61%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5093	33%	60%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5094	34%	59%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5095	35%	58%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5096	36%	57%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5097	37%	56%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5098	38%	55%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5099	39%	54%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5100	40%	53%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5101	41%	52%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5102	42%	51%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5103	43%	50%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5104	44%	49%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5105	45%	48%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5106	46%	47%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5107	47%	46%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5108	48%	45%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5109	49%	44%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5110	50%	43%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5111	51%	42%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5112	52%	41%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5113	53%	40%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5114	54%	39%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5115	55%	38%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5116	56%	37%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5117	57%	36%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 11

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	8 to 10		9 to 11	Range A	Range B	Species C	Species D	Species E
5118	58%	35%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5119	59%	34%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5120	60%	33%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 12

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		9 to 11	Range A	Range B	Species C	Species D	Species E
5121	30%	70%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5122	31%	69%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5123	32%	68%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5124	33%	67%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5125	34%	66%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5126	35%	65%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5127	36%	64%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5128	37%	63%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5129	38%	62%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5130	39%	61%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5131	40%	60%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5132	41%	59%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5133	42%	58%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5134	43%	57%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5135	44%	56%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5136	45%	55%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5137	46%	54%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5138	47%	53%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5139	48%	52%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5140	49%	51%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5141	50%	50%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5142	51%	49%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5143	52%	48%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5144	53%	47%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5145	54%	46%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5146	55%	45%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5147	56%	44%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5148	57%	43%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5149	58%	42%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5150	59%	41%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5151	60%	40%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5152	30%	69.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5153	31%	68.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 12

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		9 to 11	Range A	Range B	Species C	Species D	Species E
5154	32%	67.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5155	33%	66.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5156	34%	65.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5157	35%	64.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5158	36%	63.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5159	37%	62.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5160	38%	61.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5161	39%	60.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5162	40%	59.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5163	41%	58.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5164	42%	57.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5165	43%	56.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5166	44%	55.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5167	45%	54.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5168	46%	53.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5169	47%	52.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5170	48%	51.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5171	49%	50.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5172	50%	49.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5173	51%	48.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5174	52%	47.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5175	53%	46.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5176	54%	45.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5177	55%	44.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5178	56%	43.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5179	57%	42.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5180	58%	41.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5181	59%	40.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5182	60%	39.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5183	30%	69%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5184	31%	68%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5185	32%	67%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5186	33%	66%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 12

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		9 to 11	Range A	Range B	Species C	Species D	Species E
5187	34%	65%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5188	35%	64%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5189	36%	63%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5190	37%	62%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5191	38%	61%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5192	39%	60%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5193	40%	59%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5194	41%	58%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5195	42%	57%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5196	43%	56%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5197	44%	55%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5198	45%	54%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5199	46%	53%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5200	47%	52%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5201	48%	51%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5202	49%	50%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5203	50%	49%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5204	51%	48%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5205	52%	47%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5206	53%	46%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5207	54%	45%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5208	55%	44%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5209	56%	43%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5210	57%	42%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5211	58%	41%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5212	59%	40%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5213	60%	39%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5214	30%	68.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5215	31%	67.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5216	32%	66.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5217	33%	65.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5218	34%	64.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5219	35%	63.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 12

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		9 to 11	Range A	Range B	Species C	Species D	Species E
5220	36%	62.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5221	37%	61.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5222	38%	60.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5223	39%	59.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5224	40%	58.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5225	41%	57.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5226	42%	56.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5227	43%	55.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5228	44%	54.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5229	45%	53.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5230	46%	52.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5231	47%	51.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5232	48%	50.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5233	49%	49.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5234	50%	48.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5235	51%	47.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5236	52%	46.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5237	53%	45.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5238	54%	44.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5239	55%	43.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5240	56%	42.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5241	57%	41.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5242	58%	40.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5243	59%	39.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5244	60%	38.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5245	30%	68%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5246	31%	67%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5247	32%	66%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5248	33%	65%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5249	34%	64%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5250	35%	63%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5251	36%	62%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5252	37%	61%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 12

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		9 to 11	Range A	Range B	Species C	Species D	Species E
5253	38%	60%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5254	39%	59%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5255	40%	58%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5256	41%	57%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5257	42%	56%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5258	43%	55%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5259	44%	54%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5260	45%	53%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5261	46%	52%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5262	47%	51%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5263	48%	50%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5264	49%	49%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5265	50%	48%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5266	51%	47%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5267	52%	46%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5268	53%	45%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5269	54%	44%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5270	55%	43%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5271	56%	42%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5272	57%	41%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5273	58%	40%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5274	59%	39%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5275	60%	38%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5276	30%	67.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5277	31%	66.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5278	32%	65.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5279	33%	64.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5280	34%	63.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5281	35%	62.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5282	36%	61.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5283	37%	60.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5284	38%	59.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5285	39%	58.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 12

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		9 to 11	Range A	Range B	Species C	Species D	Species E
5286	40%	57.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5287	41%	56.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5288	42%	55.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5289	43%	54.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5290	44%	53.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5291	45%	52.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5292	46%	51.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5293	47%	50.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5294	48%	49.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5295	49%	48.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5296	50%	47.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5297	51%	46.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5298	52%	45.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5299	53%	44.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5300	54%	43.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5301	55%	42.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5302	56%	41.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5303	57%	40.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5304	58%	39.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5305	59%	38.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5306	60%	37.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5307	30%	67%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5308	31%	66%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5309	32%	65%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5310	33%	64%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5311	34%	63%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5312	35%	62%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5313	36%	61%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5314	37%	60%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5315	38%	59%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5316	39%	58%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5317	40%	57%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5318	41%	56%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 12

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		9 to 11	Range A	Range B	Species C	Species D	Species E
5319	42%	55%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5320	43%	54%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5321	44%	53%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5322	45%	52%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5323	46%	51%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5324	47%	50%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5325	48%	49%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5326	49%	48%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5327	50%	47%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5328	51%	46%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5329	52%	45%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5330	53%	44%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5331	54%	43%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5332	55%	42%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5333	56%	41%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5334	57%	40%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5335	58%	39%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5336	59%	38%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5337	60%	37%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5338	30%	66.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5339	31%	65.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5340	32%	64.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5341	33%	63.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5342	34%	62.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5343	35%	61.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5344	36%	60.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5345	37%	59.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5346	38%	58.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5347	39%	57.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5348	40%	56.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5349	41%	55.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5350	42%	54.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5351	43%	53.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 12

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		9 to 11	Range A	Range B	Species C	Species D	Species E
5352	44%	52.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5353	45%	51.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5354	46%	50.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5355	47%	49.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5356	48%	48.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5357	49%	47.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5358	50%	46.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5359	51%	45.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5360	52%	44.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5361	53%	43.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5362	54%	42.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5363	55%	41.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5364	56%	40.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5365	57%	39.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5366	58%	38.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5367	59%	37.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5368	60%	36.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5369	30%	66%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5370	31%	65%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5371	32%	64%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5372	33%	63%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5373	34%	62%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5374	35%	61%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5375	36%	60%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5376	37%	59%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5377	38%	58%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5378	39%	57%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5379	40%	56%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5380	41%	55%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5381	42%	54%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5382	43%	53%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5383	44%	52%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5384	45%	51%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 12

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		9 to 11	Range A	Range B	Species C	Species D	Species E
5385	46%	50%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5386	47%	49%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5387	48%	48%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5388	49%	47%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5389	50%	46%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5390	51%	45%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5391	52%	44%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5392	53%	43%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5393	54%	42%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5394	55%	41%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5395	56%	40%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5396	57%	39%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5397	58%	38%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5398	59%	37%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5399	60%	36%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5400	30%	65.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5401	31%	64.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5402	32%	63.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5403	33%	62.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5404	34%	61.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5405	35%	60.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5406	36%	59.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5407	37%	58.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5408	38%	57.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5409	39%	56.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5410	40%	55.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5411	41%	54.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5412	42%	53.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5413	43%	52.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5414	44%	51.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5415	45%	50.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5416	46%	49.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5417	47%	48.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 12

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		9 to 11	Range A	Range B	Species C	Species D	Species E
5418	48%	47.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5419	49%	46.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5420	50%	45.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5421	51%	44.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5422	52%	43.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5423	53%	42.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5424	54%	41.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5425	55%	40.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5426	56%	39.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5427	57%	38.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5428	58%	37.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5429	59%	36.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5430	60%	35.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5431	30%	65%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5432	31%	64%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5433	32%	63%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5434	33%	62%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5435	34%	61%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5436	35%	60%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5437	36%	59%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5438	37%	58%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5439	38%	57%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5440	39%	56%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5441	40%	55%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5442	41%	54%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5443	42%	53%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5444	43%	52%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5445	44%	51%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5446	45%	50%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5447	46%	49%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5448	47%	48%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5449	48%	47%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5450	49%	46%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 12

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		9 to 11	Range A	Range B	Species C	Species D	Species E
5451	50%	45%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5452	51%	44%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5453	52%	43%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5454	53%	42%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5455	54%	41%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5456	55%	40%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5457	56%	39%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5458	57%	38%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5459	58%	37%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5460	59%	36%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5461	60%	35%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5462	30%	64.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5463	31%	63.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5464	32%	62.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5465	33%	61.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5466	34%	60.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5467	35%	59.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5468	36%	58.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5469	37%	57.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5470	38%	56.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5471	39%	55.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5472	40%	54.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5473	41%	53.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5474	42%	52.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5475	43%	51.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5476	44%	50.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5477	45%	49.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5478	46%	48.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5479	47%	47.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5480	48%	46.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5481	49%	45.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5482	50%	44.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5483	51%	43.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 12

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		9 to 11	Range A	Range B	Species C	Species D	Species E
5484	52%	42.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5485	53%	41.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5486	54%	40.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5487	55%	39.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5488	56%	38.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5489	57%	37.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5490	58%	36.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5491	59%	35.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5492	60%	34.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5493	30%	64%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5494	31%	63%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5495	32%	62%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5496	33%	61%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5497	34%	60%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5498	35%	59%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5499	36%	58%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5500	37%	57%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5501	38%	56%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5502	39%	55%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5503	40%	54%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5504	41%	53%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5505	42%	52%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5506	43%	51%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5507	44%	50%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5508	45%	49%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5509	46%	48%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5510	47%	47%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5511	48%	46%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5512	49%	45%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5513	50%	44%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5514	51%	43%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5515	52%	42%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5516	53%	41%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 12

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		9 to 11	Range A	Range B	Species C	Species D	Species E
5517	54%	40%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5518	55%	39%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5519	56%	38%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5520	57%	37%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5521	58%	36%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5522	59%	35%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5523	60%	34%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5524	30%	63.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5525	31%	62.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5526	32%	61.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5527	33%	60.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5528	34%	59.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5529	35%	58.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5530	36%	57.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5531	37%	56.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5532	38%	55.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5533	39%	54.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5534	40%	53.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5535	41%	52.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5536	42%	51.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5537	43%	50.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5538	44%	49.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5539	45%	48.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5540	46%	47.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5541	47%	46.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5542	48%	45.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5543	49%	44.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5544	50%	43.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5545	51%	42.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5546	52%	41.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5547	53%	40.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5548	54%	39.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5549	55%	38.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 12

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		9 to 11	Range A	Range B	Species C	Species D	Species E
5550	56%	37.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5551	57%	36.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5552	58%	35.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5553	59%	34.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5554	60%	33.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5555	30%	63%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5556	31%	62%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5557	32%	61%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5558	33%	60%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5559	34%	59%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5560	35%	58%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5561	36%	57%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5562	37%	56%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5563	38%	55%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5564	39%	54%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5565	40%	53%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5566	41%	52%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5567	42%	51%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5568	43%	50%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5569	44%	49%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5570	45%	48%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5571	46%	47%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5572	47%	46%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5573	48%	45%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5574	49%	44%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5575	50%	43%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5576	51%	42%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5577	52%	41%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5578	53%	40%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5579	54%	39%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5580	55%	38%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5581	56%	37%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5582	57%	36%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 12

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	9		9 to 11	Range A	Range B	Species C	Species D	Species E
5583	58%	35%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5584	59%	34%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5585	60%	33%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 13

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		9 to 11	Range A	Range B	Species C	Species D	Species E
5586	30%	70%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5587	31%	69%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5588	32%	68%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5589	33%	67%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5590	34%	66%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5591	35%	65%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5592	36%	64%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5593	37%	63%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5594	38%	62%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5595	39%	61%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5596	40%	60%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5597	41%	59%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5598	42%	58%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5599	43%	57%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5600	44%	56%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5601	45%	55%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5602	46%	54%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5603	47%	53%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5604	48%	52%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5605	49%	51%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5606	50%	50%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5607	51%	49%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5608	52%	48%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5609	53%	47%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5610	54%	46%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5611	55%	45%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5612	56%	44%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5613	57%	43%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5614	58%	42%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5615	59%	41%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5616	60%	40%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5617	30%	69.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5618	31%	68.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5619	32%	67.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 13

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		9 to 11	Range A	Range B	Species C	Species D	Species E
5620	33%	66.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5621	34%	65.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5622	35%	64.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5623	36%	63.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5624	37%	62.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5625	38%	61.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5626	39%	60.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5627	40%	59.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5628	41%	58.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5629	42%	57.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5630	43%	56.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5631	44%	55.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5632	45%	54.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5633	46%	53.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5634	47%	52.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5635	48%	51.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5636	49%	50.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5637	50%	49.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5638	51%	48.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5639	52%	47.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5640	53%	46.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5641	54%	45.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5642	55%	44.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5643	56%	43.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5644	57%	42.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5645	58%	41.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5646	59%	40.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5647	60%	39.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5648	30%	69%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5649	31%	68%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5650	32%	67%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5651	33%	66%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5652	34%	65%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5653	35%	64%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 13

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		9 to 11	Range A	Range B	Species C	Species D	Species E
5654	36%	63%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5655	37%	62%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5656	38%	61%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5657	39%	60%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5658	40%	59%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5659	41%	58%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5660	42%	57%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5661	43%	56%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5662	44%	55%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5663	45%	54%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5664	46%	53%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5665	47%	52%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5666	48%	51%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5667	49%	50%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5668	50%	49%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5669	51%	48%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5670	52%	47%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5671	53%	46%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5672	54%	45%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5673	55%	44%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5674	56%	43%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5675	57%	42%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5676	58%	41%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5677	59%	40%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5678	60%	39%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5679	30%	68.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5680	31%	67.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5681	32%	66.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5682	33%	65.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5683	34%	64.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5684	35%	63.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5685	36%	62.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5686	37%	61.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5687	38%	60.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 13

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		9 to 11	Range A	Range B	Species C	Species D	Species E
5688	39%	59.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5689	40%	58.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5690	41%	57.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5691	42%	56.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5692	43%	55.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5693	44%	54.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5694	45%	53.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5695	46%	52.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5696	47%	51.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5697	48%	50.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5698	49%	49.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5699	50%	48.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5700	51%	47.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5701	52%	46.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5702	53%	45.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5703	54%	44.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5704	55%	43.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5705	56%	42.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5706	57%	41.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5707	58%	40.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5708	59%	39.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5709	60%	38.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5710	30%	68%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5711	31%	67%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5712	32%	66%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5713	33%	65%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5714	34%	64%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5715	35%	63%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5716	36%	62%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5717	37%	61%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5718	38%	60%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5719	39%	59%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5720	40%	58%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5721	41%	57%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 13

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		9 to 11	Range A	Range B	Species C	Species D	Species E
5722	42%	56%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5723	43%	55%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5724	44%	54%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5725	45%	53%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5726	46%	52%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5727	47%	51%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5728	48%	50%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5729	49%	49%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5730	50%	48%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5731	51%	47%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5732	52%	46%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5733	53%	45%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5734	54%	44%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5735	55%	43%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5736	56%	42%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5737	57%	41%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5738	58%	40%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5739	59%	39%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5740	60%	38%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5741	30%	67.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5742	31%	66.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5743	32%	65.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5744	33%	64.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5745	34%	63.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5746	35%	62.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5747	36%	61.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5748	37%	60.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5749	38%	59.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5750	39%	58.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5751	40%	57.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5752	41%	56.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5753	42%	55.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5754	43%	54.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5755	44%	53.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 13

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		9 to 11	Range A	Range B	Species C	Species D	Species E
5756	45%	52.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5757	46%	51.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5758	47%	50.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5759	48%	49.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5760	49%	48.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5761	50%	47.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5762	51%	46.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5763	52%	45.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5764	53%	44.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5765	54%	43.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5766	55%	42.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5767	56%	41.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5768	57%	40.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5769	58%	39.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5770	59%	38.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5771	60%	37.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5772	30%	67%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5773	31%	66%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5774	32%	65%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5775	33%	64%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5776	34%	63%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5777	35%	62%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5778	36%	61%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5779	37%	60%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5780	38%	59%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5781	39%	58%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5782	40%	57%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5783	41%	56%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5784	42%	55%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5785	43%	54%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5786	44%	53%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5787	45%	52%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5788	46%	51%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5789	47%	50%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 13

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		9 to 11	Range A	Range B	Species C	Species D	Species E
5790	48%	49%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5791	49%	48%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5792	50%	47%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5793	51%	46%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5794	52%	45%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5795	53%	44%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5796	54%	43%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5797	55%	42%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5798	56%	41%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5799	57%	40%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5800	58%	39%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5801	59%	38%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5802	60%	37%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5803	30%	66.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5804	31%	65.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5805	32%	64.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5806	33%	63.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5807	34%	62.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5808	35%	61.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5809	36%	60.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5810	37%	59.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5811	38%	58.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5812	39%	57.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5813	40%	56.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5814	41%	55.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5815	42%	54.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5816	43%	53.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5817	44%	52.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5818	45%	51.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5819	46%	50.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5820	47%	49.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5821	48%	48.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5822	49%	47.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5823	50%	46.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 13

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		9 to 11	Range A	Range B	Species C	Species D	Species E
5824	51%	45.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5825	52%	44.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5826	53%	43.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5827	54%	42.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5828	55%	41.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5829	56%	40.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5830	57%	39.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5831	58%	38.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5832	59%	37.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5833	60%	36.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5834	30%	66%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5835	31%	65%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5836	32%	64%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5837	33%	63%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5838	34%	62%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5839	35%	61%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5840	36%	60%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5841	37%	59%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5842	38%	58%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5843	39%	57%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5844	40%	56%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5845	41%	55%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5846	42%	54%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5847	43%	53%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5848	44%	52%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5849	45%	51%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5850	46%	50%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5851	47%	49%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5852	48%	48%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5853	49%	47%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5854	50%	46%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5855	51%	45%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5856	52%	44%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5857	53%	43%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 13

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		9 to 11	Range A	Range B	Species C	Species D	Species E
5858	54%	42%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5859	55%	41%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5860	56%	40%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5861	57%	39%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5862	58%	38%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5863	59%	37%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5864	60%	36%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5865	30%	65.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5866	31%	64.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5867	32%	63.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5868	33%	62.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5869	34%	61.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5870	35%	60.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5871	36%	59.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5872	37%	58.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5873	38%	57.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5874	39%	56.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5875	40%	55.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5876	41%	54.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5877	42%	53.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5878	43%	52.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5879	44%	51.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5880	45%	50.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5881	46%	49.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5882	47%	48.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5883	48%	47.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5884	49%	46.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5885	50%	45.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5886	51%	44.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5887	52%	43.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5888	53%	42.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5889	54%	41.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5890	55%	40.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5891	56%	39.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 13

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		9 to 11	Range A	Range B	Species C	Species D	Species E
5892	57%	38.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5893	58%	37.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5894	59%	36.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5895	60%	35.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5896	30%	65%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5897	31%	64%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5898	32%	63%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5899	33%	62%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5900	34%	61%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5901	35%	60%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5902	36%	59%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5903	37%	58%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5904	38%	57%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5905	39%	56%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5906	40%	55%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5907	41%	54%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5908	42%	53%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5909	43%	52%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5910	44%	51%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5911	45%	50%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5912	46%	49%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5913	47%	48%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5914	48%	47%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5915	49%	46%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5916	50%	45%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5917	51%	44%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5918	52%	43%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5919	53%	42%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5920	54%	41%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5921	55%	40%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5922	56%	39%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5923	57%	38%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5924	58%	37%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5925	59%	36%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 13

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		9 to 11	Range A	Range B	Species C	Species D	Species E
5926	60%	35%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5927	30%	64.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5928	31%	63.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5929	32%	62.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5930	33%	61.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5931	34%	60.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5932	35%	59.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5933	36%	58.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5934	37%	57.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5935	38%	56.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5936	39%	55.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5937	40%	54.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5938	41%	53.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5939	42%	52.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5940	43%	51.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5941	44%	50.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5942	45%	49.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5943	46%	48.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5944	47%	47.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5945	48%	46.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5946	49%	45.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5947	50%	44.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5948	51%	43.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5949	52%	42.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5950	53%	41.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5951	54%	40.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5952	55%	39.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5953	56%	38.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5954	57%	37.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5955	58%	36.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5956	59%	35.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5957	60%	34.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5958	30%	64%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5959	31%	63%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 13

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		9 to 11	Range A	Range B	Species C	Species D	Species E
5960	32%	62%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5961	33%	61%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5962	34%	60%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5963	35%	59%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5964	36%	58%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5965	37%	57%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5966	38%	56%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5967	39%	55%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5968	40%	54%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5969	41%	53%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5970	42%	52%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5971	43%	51%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5972	44%	50%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5973	45%	49%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5974	46%	48%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5975	47%	47%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5976	48%	46%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5977	49%	45%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5978	50%	44%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5979	51%	43%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5980	52%	42%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5981	53%	41%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5982	54%	40%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5983	55%	39%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5984	56%	38%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5985	57%	37%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5986	58%	36%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5987	59%	35%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5988	60%	34%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5989	30%	63.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5990	31%	62.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5991	32%	61.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5992	33%	60.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5993	34%	59.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 13

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		9 to 11	Range A	Range B	Species C	Species D	Species E
5994	35%	58.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5995	36%	57.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5996	37%	56.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5997	38%	55.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5998	39%	54.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
5999	40%	53.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6000	41%	52.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6001	42%	51.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6002	43%	50.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6003	44%	49.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6004	45%	48.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6005	46%	47.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6006	47%	46.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6007	48%	45.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6008	49%	44.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6009	50%	43.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6010	51%	42.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6011	52%	41.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6012	53%	40.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6013	54%	39.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6014	55%	38.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6015	56%	37.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6016	57%	36.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6017	58%	35.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6018	59%	34.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6019	60%	33.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6020	30%	63%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6021	31%	62%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6022	32%	61%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6023	33%	60%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6024	34%	59%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6025	35%	58%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6026	36%	57%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6027	37%	56%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 13

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. Percentage			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8 to 10	9 to 11		9 to 11	Range A	Range B	Species C	Species D	Species E
6028	38%	55%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6029	39%	54%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6030	40%	53%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6031	41%	52%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6032	42%	51%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6033	43%	50%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6034	44%	49%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6035	45%	48%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6036	46%	47%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6037	47%	46%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6038	48%	45%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6039	49%	44%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6040	50%	43%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6041	51%	42%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6042	52%	41%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6043	53%	40%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6044	54%	39%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6045	55%	38%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6046	56%	37%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6047	57%	36%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6048	58%	35%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6049	59%	34%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6050	60%	33%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 14

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6051	30%	70%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6052	31%	69%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6053	32%	68%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6054	33%	67%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6055	34%	66%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6056	35%	65%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6057	36%	64%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6058	37%	63%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6059	38%	62%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6060	39%	61%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6061	40%	60%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6062	41%	59%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6063	42%	58%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6064	43%	57%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6065	44%	56%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6066	45%	55%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6067	46%	54%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6068	47%	53%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6069	48%	52%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6070	49%	51%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6071	50%	50%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6072	51%	49%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6073	52%	48%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6074	53%	47%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6075	54%	46%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6076	55%	45%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6077	56%	44%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6078	57%	43%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6079	58%	42%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6080	59%	41%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6081	60%	40%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6082	30%	69.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6083	31%	68.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 14

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6084	32%	67.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6085	33%	66.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6086	34%	65.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6087	35%	64.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6088	36%	63.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6089	37%	62.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6090	38%	61.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6091	39%	60.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6092	40%	59.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6093	41%	58.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6094	42%	57.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6095	43%	56.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6096	44%	55.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6097	45%	54.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6098	46%	53.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6099	47%	52.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6100	48%	51.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6101	49%	50.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6102	50%	49.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6103	51%	48.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6104	52%	47.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6105	53%	46.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6106	54%	45.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6107	55%	44.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6108	56%	43.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6109	57%	42.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6110	58%	41.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6111	59%	40.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6112	60%	39.5%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6113	30%	69%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6114	31%	68%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6115	32%	67%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6116	33%	66%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 14

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6117	34%	65%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6118	35%	64%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6119	36%	63%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6120	37%	62%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6121	38%	61%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6122	39%	60%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6123	40%	59%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6124	41%	58%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6125	42%	57%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6126	43%	56%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6127	44%	55%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6128	45%	54%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6129	46%	53%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6130	47%	52%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6131	48%	51%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6132	49%	50%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6133	50%	49%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6134	51%	48%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6135	52%	47%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6136	53%	46%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6137	54%	45%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6138	55%	44%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6139	56%	43%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6140	57%	42%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6141	58%	41%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6142	59%	40%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6143	60%	39%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6144	30%	68.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6145	31%	67.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6146	32%	66.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6147	33%	65.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6148	34%	64.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6149	35%	63.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 14

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6150	36%	62.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6151	37%	61.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6152	38%	60.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6153	39%	59.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6154	40%	58.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6155	41%	57.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6156	42%	56.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6157	43%	55.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6158	44%	54.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6159	45%	53.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6160	46%	52.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6161	47%	51.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6162	48%	50.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6163	49%	49.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6164	50%	48.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6165	51%	47.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6166	52%	46.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6167	53%	45.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6168	54%	44.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6169	55%	43.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6170	56%	42.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6171	57%	41.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6172	58%	40.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6173	59%	39.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6174	60%	38.5%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6175	30%	68%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6176	31%	67%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6177	32%	66%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6178	33%	65%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6179	34%	64%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6180	35%	63%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6181	36%	62%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6182	37%	61%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 14

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6183	38%	60%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6184	39%	59%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6185	40%	58%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6186	41%	57%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6187	42%	56%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6188	43%	55%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6189	44%	54%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6190	45%	53%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6191	46%	52%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6192	47%	51%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6193	48%	50%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6194	49%	49%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6195	50%	48%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6196	51%	47%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6197	52%	46%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6198	53%	45%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6199	54%	44%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6200	55%	43%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6201	56%	42%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6202	57%	41%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6203	58%	40%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6204	59%	39%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6205	60%	38%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6206	30%	67.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6207	31%	66.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6208	32%	65.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6209	33%	64.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6210	34%	63.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6211	35%	62.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6212	36%	61.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6213	37%	60.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6214	38%	59.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6215	39%	58.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 14

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6216	40%	57.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6217	41%	56.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6218	42%	55.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6219	43%	54.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6220	44%	53.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6221	45%	52.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6222	46%	51.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6223	47%	50.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6224	48%	49.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6225	49%	48.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6226	50%	47.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6227	51%	46.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6228	52%	45.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6229	53%	44.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6230	54%	43.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6231	55%	42.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6232	56%	41.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6233	57%	40.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6234	58%	39.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6235	59%	38.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6236	60%	37.5%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6237	30%	67%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6238	31%	66%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6239	32%	65%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6240	33%	64%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6241	34%	63%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6242	35%	62%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6243	36%	61%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6244	37%	60%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6245	38%	59%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6246	39%	58%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6247	40%	57%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6248	41%	56%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 14

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6249	42%	55%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6250	43%	54%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6251	44%	53%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6252	45%	52%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6253	46%	51%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6254	47%	50%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6255	48%	49%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6256	49%	48%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6257	50%	47%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6258	51%	46%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6259	52%	45%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6260	53%	44%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6261	54%	43%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6262	55%	42%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6263	56%	41%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6264	57%	40%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6265	58%	39%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6266	59%	38%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6267	60%	37%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6268	30%	66.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6269	31%	65.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6270	32%	64.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6271	33%	63.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6272	34%	62.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6273	35%	61.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6274	36%	60.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6275	37%	59.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6276	38%	58.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6277	39%	57.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6278	40%	56.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6279	41%	55.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6280	42%	54.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6281	43%	53.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 14

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6282	44%	52.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6283	45%	51.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6284	46%	50.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6285	47%	49.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6286	48%	48.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6287	49%	47.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6288	50%	46.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6289	51%	45.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6290	52%	44.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6291	53%	43.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6292	54%	42.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6293	55%	41.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6294	56%	40.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6295	57%	39.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6296	58%	38.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6297	59%	37.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6298	60%	36.5%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6299	30%	66%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6300	31%	65%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6301	32%	64%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6302	33%	63%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6303	34%	62%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6304	35%	61%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6305	36%	60%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6306	37%	59%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6307	38%	58%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6308	39%	57%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6309	40%	56%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6310	41%	55%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6311	42%	54%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6312	43%	53%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6313	44%	52%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6314	45%	51%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 14

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6315	46%	50%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6316	47%	49%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6317	48%	48%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6318	49%	47%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6319	50%	46%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6320	51%	45%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6321	52%	44%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6322	53%	43%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6323	54%	42%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6324	55%	41%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6325	56%	40%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6326	57%	39%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6327	58%	38%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6328	59%	37%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6329	60%	36%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6330	30%	65.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6331	31%	64.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6332	32%	63.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6333	33%	62.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6334	34%	61.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6335	35%	60.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6336	36%	59.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6337	37%	58.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6338	38%	57.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6339	39%	56.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6340	40%	55.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6341	41%	54.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6342	42%	53.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6343	43%	52.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6344	44%	51.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6345	45%	50.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6346	46%	49.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6347	47%	48.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 14

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6348	48%	47.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6349	49%	46.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6350	50%	45.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6351	51%	44.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6352	52%	43.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6353	53%	42.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6354	54%	41.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6355	55%	40.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6356	56%	39.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6357	57%	38.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6358	58%	37.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6359	59%	36.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6360	60%	35.5%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6361	30%	65%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6362	31%	64%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6363	32%	63%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6364	33%	62%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6365	34%	61%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6366	35%	60%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6367	36%	59%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6368	37%	58%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6369	38%	57%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6370	39%	56%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6371	40%	55%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6372	41%	54%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6373	42%	53%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6374	43%	52%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6375	44%	51%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6376	45%	50%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6377	46%	49%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6378	47%	48%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6379	48%	47%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6380	49%	46%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 14

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6381	50%	45%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6382	51%	44%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6383	52%	43%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6384	53%	42%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6385	54%	41%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6386	55%	40%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6387	56%	39%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6388	57%	38%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6389	58%	37%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6390	59%	36%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6391	60%	35%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6392	30%	64.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6393	31%	63.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6394	32%	62.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6395	33%	61.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6396	34%	60.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6397	35%	59.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6398	36%	58.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6399	37%	57.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6400	38%	56.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6401	39%	55.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6402	40%	54.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6403	41%	53.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6404	42%	52.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6405	43%	51.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6406	44%	50.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6407	45%	49.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6408	46%	48.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6409	47%	47.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6410	48%	46.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6411	49%	45.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6412	50%	44.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6413	51%	43.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 14

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6414	52%	42.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6415	53%	41.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6416	54%	40.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6417	55%	39.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6418	56%	38.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6419	57%	37.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6420	58%	36.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6421	59%	35.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6422	60%	34.5%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6423	30%	64%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6424	31%	63%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6425	32%	62%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6426	33%	61%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6427	34%	60%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6428	35%	59%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6429	36%	58%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6430	37%	57%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6431	38%	56%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6432	39%	55%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6433	40%	54%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6434	41%	53%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6435	42%	52%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6436	43%	51%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6437	44%	50%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6438	45%	49%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6439	46%	48%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6440	47%	47%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6441	48%	46%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6442	49%	45%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6443	50%	44%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6444	51%	43%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6445	52%	42%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6446	53%	41%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 14

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6447	54%	40%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6448	55%	39%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6449	56%	38%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6450	57%	37%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6451	58%	36%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6452	59%	35%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6453	60%	34%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6454	30%	63.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6455	31%	62.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6456	32%	61.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6457	33%	60.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6458	34%	59.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6459	35%	58.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6460	36%	57.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6461	37%	56.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6462	38%	55.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6463	39%	54.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6464	40%	53.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6465	41%	52.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6466	42%	51.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6467	43%	50.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6468	44%	49.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6469	45%	48.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6470	46%	47.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6471	47%	46.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6472	48%	45.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6473	49%	44.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6474	50%	43.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6475	51%	42.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6476	52%	41.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6477	53%	40.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6478	54%	39.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6479	55%	38.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 14

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6480	56%	37.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6481	57%	36.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6482	58%	35.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6483	59%	34.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6484	60%	33.5%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6485	30%	63%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6486	31%	62%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6487	32%	61%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6488	33%	60%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6489	34%	59%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6490	35%	58%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6491	36%	57%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6492	37%	56%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6493	38%	55%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6494	39%	54%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6495	40%	53%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6496	41%	52%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6497	42%	51%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6498	43%	50%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6499	44%	49%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6500	45%	48%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6501	46%	47%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6502	47%	46%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6503	48%	45%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6504	49%	44%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6505	50%	43%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6506	51%	42%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6507	52%	41%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6508	53%	40%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6509	54%	39%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6510	55%	38%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6511	56%	37%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6512	57%	36%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 14

Species	Alkyl Sulfate			Alkyl Ether Sulfate					
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	9 to 11	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6513	58%	35%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6514	59%	34%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6515	60%	33%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 15

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)			
	8	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6516	30%	70%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6517	31%	69%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6518	32%	68%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6519	33%	67%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6520	34%	66%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6521	35%	65%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6522	36%	64%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6523	37%	63%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6524	38%	62%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6525	39%	61%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6526	40%	60%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6527	41%	59%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6528	42%	58%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6529	43%	57%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6530	44%	56%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6531	45%	55%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6532	46%	54%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6533	47%	53%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6534	48%	52%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6535	49%	51%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6536	50%	50%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6537	51%	49%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6538	52%	48%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6539	53%	47%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6540	54%	46%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6541	55%	45%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6542	56%	44%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6543	57%	43%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6544	58%	42%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6545	59%	41%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6546	60%	40%		0%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6547	30%	70%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6548	31%	69%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6549	32%	68%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 15

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)			
	8	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6550	33%	67%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6551	34%	66%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6552	35%	65%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6553	36%	64%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6554	37%	63%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6555	38%	62%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6556	39%	61%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6557	40%	60%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6558	41%	59%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6559	42%	58%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6560	43%	57%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6561	44%	56%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6562	45%	55%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6563	46%	54%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6564	47%	53%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6565	48%	52%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6566	49%	51%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6567	50%	50%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6568	51%	49%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6569	52%	48%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6570	53%	47%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6571	54%	46%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6572	55%	45%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6573	56%	44%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6574	57%	43%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6575	58%	42%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6576	59%	41%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6577	60%	40%		0.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6578	30%	69%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6579	31%	68%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6580	32%	67%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6581	33%	66%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6582	34%	65%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6583	35%	64%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 15

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)			
	8	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6584	36%	63%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6585	37%	62%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6586	38%	61%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6587	39%	60%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6588	40%	59%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6589	41%	58%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6590	42%	57%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6591	43%	56%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6592	44%	55%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6593	45%	54%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6594	46%	53%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6595	47%	52%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6596	48%	51%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6597	49%	50%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6598	50%	49%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6599	51%	48%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6600	52%	47%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6601	53%	46%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6602	54%	45%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6603	55%	44%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6604	56%	43%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6605	57%	42%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6606	58%	41%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6607	59%	40%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6608	60%	39%		1%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6609	30%	69%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6610	31%	68%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6611	32%	67%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6612	33%	66%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6613	34%	65%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6614	35%	64%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6615	36%	63%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6616	37%	62%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6617	38%	61%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 15

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)			
	8	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6618	39%	60%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6619	40%	59%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6620	41%	58%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6621	42%	57%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6622	43%	56%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6623	44%	55%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6624	45%	54%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6625	46%	53%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6626	47%	52%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6627	48%	51%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6628	49%	50%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6629	50%	49%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6630	51%	48%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6631	52%	47%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6632	53%	46%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6633	54%	45%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6634	55%	44%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6635	56%	43%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6636	57%	42%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6637	58%	41%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6638	59%	40%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6639	60%	39%		1.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6640	30%	68%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6641	31%	67%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6642	32%	66%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6643	33%	65%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6644	34%	64%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6645	35%	63%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6646	36%	62%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6647	37%	61%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6648	38%	60%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6649	39%	59%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6650	40%	58%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6651	41%	57%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 15

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)			
	8	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6652	42%	56%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6653	43%	55%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6654	44%	54%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6655	45%	53%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6656	46%	52%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6657	47%	51%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6658	48%	50%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6659	49%	49%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6660	50%	48%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6661	51%	47%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6662	52%	46%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6663	53%	45%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6664	54%	44%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6665	55%	43%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6666	56%	42%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6667	57%	41%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6668	58%	40%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6669	59%	39%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6670	60%	38%		2%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6671	30%	68%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6672	31%	67%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6673	32%	66%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6674	33%	65%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6675	34%	64%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6676	35%	63%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6677	36%	62%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6678	37%	61%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6679	38%	60%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6680	39%	59%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6681	40%	58%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6682	41%	57%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6683	42%	56%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6684	43%	55%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6685	44%	54%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 15

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)			
	8	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6686	45%	53%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6687	46%	52%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6688	47%	51%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6689	48%	50%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6690	49%	49%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6691	50%	48%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6692	51%	47%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6693	52%	46%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6694	53%	45%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6695	54%	44%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6696	55%	43%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6697	56%	42%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6698	57%	41%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6699	58%	40%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6700	59%	39%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6701	60%	38%		2.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6702	30%	67%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6703	31%	66%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6704	32%	65%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6705	33%	64%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6706	34%	63%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6707	35%	62%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6708	36%	61%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6709	37%	60%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6710	38%	59%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6711	39%	58%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6712	40%	57%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6713	41%	56%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6714	42%	55%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6715	43%	54%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6716	44%	53%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6717	45%	52%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6718	46%	51%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6719	47%	50%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 15

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)			
	8	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6720	48%	49%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6721	49%	48%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6722	50%	47%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6723	51%	46%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6724	52%	45%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6725	53%	44%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6726	54%	43%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6727	55%	42%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6728	56%	41%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6729	57%	40%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6730	58%	39%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6731	59%	38%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6732	60%	37%		3%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6733	30%	67%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6734	31%	66%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6735	32%	65%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6736	33%	64%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6737	34%	63%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6738	35%	62%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6739	36%	61%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6740	37%	60%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6741	38%	59%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6742	39%	58%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6743	40%	57%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6744	41%	56%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6745	42%	55%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6746	43%	54%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6747	44%	53%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6748	45%	52%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6749	46%	51%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6750	47%	50%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6751	48%	49%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6752	49%	48%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6753	50%	47%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 15

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)			
	8	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6754	51%	46%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6755	52%	45%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6756	53%	44%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6757	54%	43%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6758	55%	42%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6759	56%	41%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6760	57%	40%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6761	58%	39%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6762	59%	38%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6763	60%	37%		3.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6764	30%	66%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6765	31%	65%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6766	32%	64%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6767	33%	63%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6768	34%	62%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6769	35%	61%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6770	36%	60%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6771	37%	59%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6772	38%	58%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6773	39%	57%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6774	40%	56%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6775	41%	55%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6776	42%	54%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6777	43%	53%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6778	44%	52%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6779	45%	51%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6780	46%	50%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6781	47%	49%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6782	48%	48%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6783	49%	47%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6784	50%	46%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6785	51%	45%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6786	52%	44%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6787	53%	43%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 15

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)			
	8	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6788	54%	42%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6789	55%	41%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6790	56%	40%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6791	57%	39%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6792	58%	38%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6793	59%	37%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6794	60%	36%		4%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6795	30%	66%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6796	31%	65%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6797	32%	64%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6798	33%	63%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6799	34%	62%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6800	35%	61%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6801	36%	60%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6802	37%	59%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6803	38%	58%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6804	39%	57%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6805	40%	56%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6806	41%	55%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6807	42%	54%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6808	43%	53%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6809	44%	52%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6810	45%	51%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6811	46%	50%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6812	47%	49%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6813	48%	48%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6814	49%	47%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6815	50%	46%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6816	51%	45%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6817	52%	44%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6818	53%	43%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6819	54%	42%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6820	55%	41%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6821	56%	40%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 15

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)			
	8	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6822	57%	39%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6823	58%	38%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6824	59%	37%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6825	60%	36%		4.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6826	30%	65%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6827	31%	64%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6828	32%	63%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6829	33%	62%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6830	34%	61%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6831	35%	60%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6832	36%	59%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6833	37%	58%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6834	38%	57%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6835	39%	56%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6836	40%	55%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6837	41%	54%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6838	42%	53%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6839	43%	52%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6840	44%	51%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6841	45%	50%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6842	46%	49%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6843	47%	48%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6844	48%	47%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6845	49%	46%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6846	50%	45%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6847	51%	44%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6848	52%	43%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6849	53%	42%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6850	54%	41%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6851	55%	40%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6852	56%	39%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6853	57%	38%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6854	58%	37%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6855	59%	36%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 15

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)			
	8	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6856	60%	35%		5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6857	30%	65%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6858	31%	64%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6859	32%	63%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6860	33%	62%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6861	34%	61%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6862	35%	60%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6863	36%	59%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6864	37%	58%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6865	38%	57%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6866	39%	56%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6867	40%	55%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6868	41%	54%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6869	42%	53%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6870	43%	52%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6871	44%	51%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6872	45%	50%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6873	46%	49%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6874	47%	48%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6875	48%	47%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6876	49%	46%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6877	50%	45%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6878	51%	44%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6879	52%	43%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6880	53%	42%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6881	54%	41%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6882	55%	40%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6883	56%	39%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6884	57%	38%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6885	58%	37%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6886	59%	36%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6887	60%	35%		5.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6888	30%	64%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6889	31%	63%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 15

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)			
	8	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6890	32%	62%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6891	33%	61%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6892	34%	60%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6893	35%	59%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6894	36%	58%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6895	37%	57%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6896	38%	56%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6897	39%	55%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6898	40%	54%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6899	41%	53%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6900	42%	52%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6901	43%	51%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6902	44%	50%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6903	45%	49%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6904	46%	48%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6905	47%	47%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6906	48%	46%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6907	49%	45%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6908	50%	44%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6909	51%	43%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6910	52%	42%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6911	53%	41%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6912	54%	40%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6913	55%	39%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6914	56%	38%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6915	57%	37%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6916	58%	36%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6917	59%	35%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6918	60%	34%		6%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6919	30%	64%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6920	31%	63%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6921	32%	62%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6922	33%	61%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6923	34%	60%		6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 15

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %		Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)				
	8	10 to 12	9 to 11	Range A	Range B	Species C	Species D	Species E
6924	35%	59%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6925	36%	58%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6926	37%	57%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6927	38%	56%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6928	39%	55%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6929	40%	54%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6930	41%	53%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6931	42%	52%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6932	43%	51%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6933	44%	50%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6934	45%	49%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6935	46%	48%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6936	47%	47%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6937	48%	46%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6938	49%	45%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6939	50%	44%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6940	51%	43%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6941	52%	42%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6942	53%	41%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6943	54%	40%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6944	55%	39%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6945	56%	38%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6946	57%	37%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6947	58%	36%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6948	59%	35%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6949	60%	34%	6.5%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6950	30%	63%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6951	31%	62%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6952	32%	61%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6953	33%	60%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6954	34%	59%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6955	35%	58%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6956	36%	57%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6957	37%	56%	7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

Table 15

Species	Alkyl Sulfate			Alkyl Ether Sulfate				
	Alkyl Chain Length, Wt. %			Alkyl Chain Length, Wt. %	Average mol. EO (Alternatives for each numbered species)			
	8	10 to 12		9 to 11	Range A	Range B	Species C	Species D	Species E
6958	38%	55%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6959	39%	54%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6960	40%	53%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6961	41%	52%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6962	42%	51%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6963	43%	50%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6964	44%	49%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6965	45%	48%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6966	46%	47%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6967	47%	46%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6968	48%	45%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6969	49%	44%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6970	50%	43%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6971	51%	42%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6972	52%	41%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6973	53%	40%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6974	54%	39%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6975	55%	38%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6976	56%	37%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6977	57%	36%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6978	58%	35%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6979	59%	34%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4
6980	60%	33%		7%	0.8 to 3	1.8 to 2.8	2.0	2.2	2.4

CLAIMS

1. A surfactant composition comprising:

30% to 60% by weight of a first alkyl sulfate surfactant having Formula (1):

$$R^1\text{-}OSO_3^- {}^+M^1 \quad (1)$$

in which R^1 is linear or branched alkyl having from 6 to 14 carbon atoms and M^1 is a cation selected from sodium, calcium, ammonium, or a combination of two or all of these;

40% to 70% by weight of a second alkyl sulfate surfactant different from the first alkyl sulfate surfactant, also having Formula (1):

$$R^1\text{-}OSO_3^- {}^+M^1 \quad (1)$$

in which R^1 is linear or branched alkyl having from 6 to 14 carbon atoms and M^1 is a cation selected from sodium, calcium, ammonium, or a combination of two or all of these; and

0% to 7% by weight of an alkyl ether sulfate comprising Formula (2):

$$R^2\text{-}(OCH_2CH_2)_yOSO_3^- {}^+M^2 \quad (2)$$

in which R^2 is branched alkyl or linear alkyl or a combination thereof having from 6 to 14 carbon atoms, y has an average value from 0.1 to 5, and M^2 is a cation selected from sodium, calcium, ammonium, or a combination of two or all of these.

2. The surfactant composition of claim 1, in which the first alkyl sulfate is a C_8 alkyl sulfate, the second alkyl sulfate is a $C_{8\text{-}10}$ alkyl sulfate, and the alkyl ether sulfate is a C_6 alkyl ether sulfate.

3. The surfactant composition of claim 1, in which the first alkyl sulfate is a C_8 alkyl sulfate, the second alkyl sulfate is a C_9 alkyl sulfate, and the alkyl ether sulfate is a C_6 alkyl ether sulfate.

4. The surfactant composition of claim 1, in which the first alkyl sulfate is a C_{8-10} alkyl sulfate, the second alkyl sulfate is a C_{9-11} alkyl sulfate, and the alkyl ether sulfate is a C_6 alkyl ether sulfate.

5. The surfactant composition of claim 1, in which the first alkyl sulfate is a C_{9-11} alkyl sulfate, the second alkyl sulfate is a C_{10-12} alkyl sulfate, and the alkyl ether sulfate is a C_6 alkyl ether sulfate.

6. The surfactant composition of claim 1, in which the first alkyl sulfate is a C_8 alkyl sulfate, the second alkyl sulfate is a C_{10-12} alkyl sulfate, and the alkyl ether sulfate is a C_6 alkyl ether sulfate.

7. The surfactant composition of claim 1, in which the first alkyl sulfate is a C_8 alkyl sulfate, the second alkyl sulfate is a C_{8-10} alkyl sulfate, and the alkyl ether sulfate is a C_{8-10} alkyl ether sulfate.

8. The surfactant composition of claim 1, in which the first alkyl sulfate is a C_8 alkyl sulfate, the second alkyl sulfate is a C_9 alkyl sulfate, and the alkyl ether sulfate is a C_{8-10} alkyl ether sulfate.

9. The surfactant composition of claim 1, in which the first alkyl sulfate is a C_{8-10} alkyl sulfate, the second alkyl sulfate is a C_{9-11} alkyl sulfate, and the alkyl ether sulfate is a C_{8-10} alkyl ether sulfate.

10. The surfactant composition of claim 1, in which the first alkyl sulfate is a C_{9-11} alkyl sulfate, the second alkyl sulfate is a C_{10-12} alkyl sulfate, and the alkyl ether sulfate is a C_{8-10} alkyl ether sulfate.

11. The surfactant composition of claim 1, in which the first alkyl sulfate is a C_8 alkyl sulfate, the second alkyl sulfate is a C_{10-12} alkyl sulfate, and the alkyl ether sulfate is a C_{8-10} alkyl ether sulfate.

12. The surfactant composition of claim 1, in which the first alkyl sulfate is a C_8 alkyl sulfate, the second alkyl sulfate is a C_{8-10} alkyl sulfate, and the alkyl ether sulfate is a C_{9-11} alkyl ether sulfate.

13. The surfactant composition of claim 1, in which the first alkyl sulfate is a C_8 alkyl sulfate, the second alkyl sulfate is a C_9 alkyl sulfate, and the alkyl ether sulfate is a C_{9-11} alkyl ether sulfate.

14. The surfactant composition of claim 1, in which the first alkyl sulfate is a C_{8-10} alkyl sulfate, the second alkyl sulfate is a C_{9-11} alkyl sulfate, and the alkyl ether sulfate is a C_{9-11} alkyl ether sulfate.

15. The surfactant composition of claim 1, in which the first alkyl sulfate is a C_{9-11} alkyl sulfate, the second alkyl sulfate is a C_{10-12} alkyl sulfate, and the alkyl ether sulfate is a C_{9-11} alkyl ether sulfate.

16. The surfactant composition of claim 1, in which the first alkyl sulfate is a C_8 alkyl sulfate, the second alkyl sulfate is a C_{10-12} alkyl sulfate, and the alkyl ether sulfate is a C_{9-11} alkyl ether sulfate.

17. The surfactant composition of any preceding claim, in which the average degree of ethoxylation is 0.8 to 3 moles of ethylene oxide per mole of alkyl ether sulfate.

18. The surfactant composition of any preceding claim, in which the average degree of ethoxylation is 1.8 to 2.8 moles of ethylene oxide per mole of alkyl ether sulfate.

19. The surfactant composition of any preceding claim, in which the average degree of ethoxylation is about 2 moles of ethylene oxide per mole of alkyl ether sulfate.

20. The surfactant composition of any preceding claim, in which the average degree of ethoxylation is about 2.2 moles of ethylene oxide per mole of alkyl ether sulfate.

21. The surfactant composition of any preceding claim, in which the average degree of ethoxylation is about 2.4 moles of ethylene oxide per mole of alkyl ether sulfate.

22. A surfactant composition comprising:

- from 70 to 100 wt.% by total surfactant weight of a linear or branched alkyl sulfate; and
- from 0 to 30 wt.% by total surfactant weight of a linear or branched alkyl ether sulfate; in which
- the linear or branched alkyl sulfate comprises the structure of Formula (1):

$$R^1\text{-}OSO_3^- {}^+M^1 \quad (1)$$

in which R^1 is linear or branched alkyl having from 6 to 14 carbon atoms and M^1 is a cation;

- the linear or branched alkyl ether sulfate comprises the structure of Formula (2):

$$R^2\text{-}(OCH_2CH_2)_yOSO_3^- {}^+M^2 \quad (2)$$

in which R^2 is branched alkyl or linear alkyl or a combination thereof having from 6 to 14 carbon atoms, y has an average value from 0.1 to 5, preferably from 0.8 to 3, M^2 is a cation, and

- M^1 and M^2 are independently selected, and can be the same or different.

23. A gypsum slurry comprising gypsum, water, and the surfactant composition of claim 22

24. A gypsum board comprising a core and facing sheets, the core comprising the gypsum slurry of claim 23 and having multiple foam voids.

25. A surfactant composition comprising:

- from 91 to 99.5 wt.% by total surfactant weight of a linear or branched alkyl sulfate having the structure of Formula (1), an average number of carbon atoms, n_m, in R^1 between 10 and 11, and the following proportions by weight of species of Formula (1):
  - 7% to 12% in which R^1 is straight or branched C_9H_{19};
  - 42% to 59% in which R^1 is straight or branched $C_{10}H_{21}$;
  - 15% to 29% in which R^1 is straight or branched $C_{11}H_{23}$;
  - 7% to 15% in which R^1 is straight or branched $C_{12}H_{25}$; and
- from 0.5 to 9 wt.% by total surfactant weight of a linear or branched alkyl ether sulfate having the structure of Formula (2), an average number of carbon atoms, n_m, in R^2 between 10 and 11, and an average value of y from 0.5 to 2.5.

26. A gypsum slurry comprising gypsum, water, and the surfactant composition of claim 25.

27. A gypsum board comprising a core and facing sheets, the core comprising the gypsum slurry according to claim 26 having multiple foam voids.

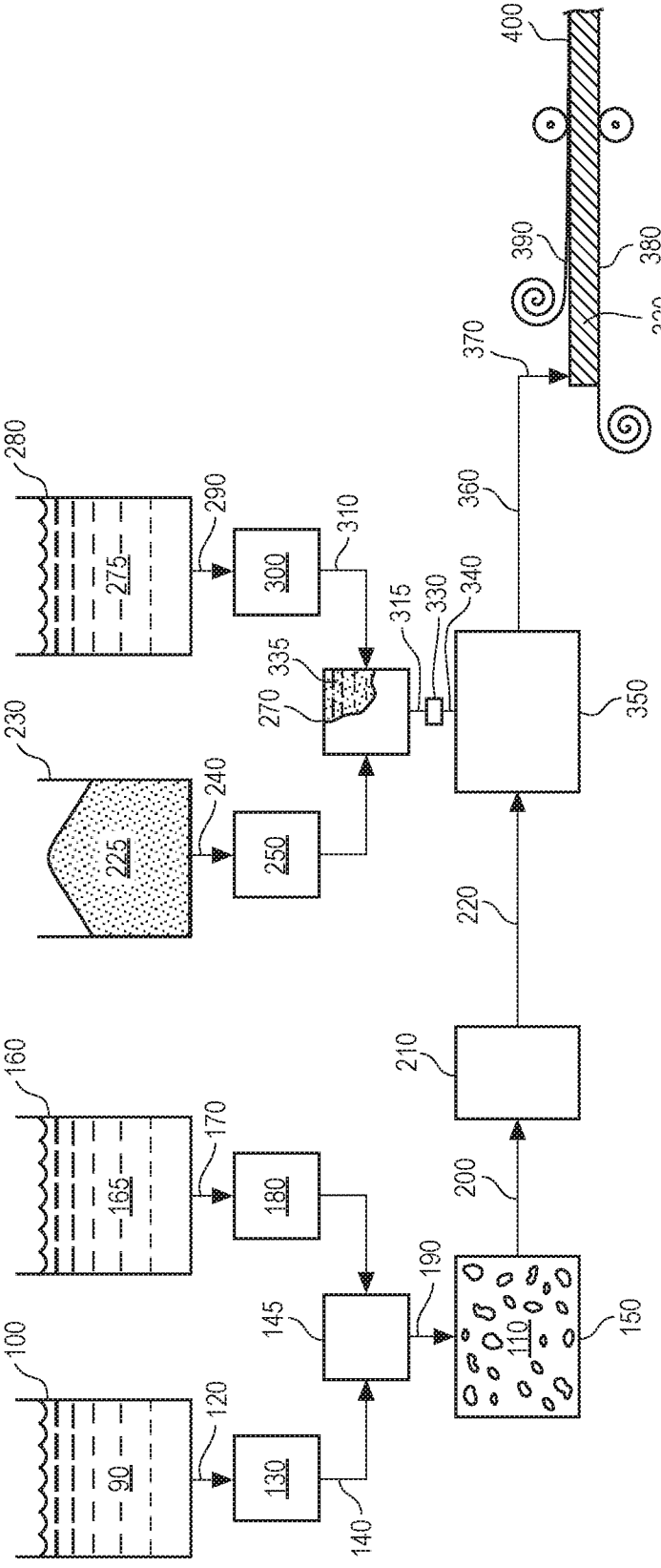
28. A surfactant composition comprising:

- from 97.5 to 99.5 wt.% by total surfactant weight of a linear or branched alkyl sulfate having the structure of Formula (1), an average number of carbon atoms, n_m, in R^1 between 9 and 10, and the following proportions by weight of species of Formula (1):
  - 25% to 47% in which R^1 is straight or branched C_8H_{17};
  - 38% to 55% in which R^1 is straight or branched $C_{10}H_{21}$;
  - 12% to 20% in which R^1 is straight or branched $C_{12}H_{25}$; and
- from 0.5 to 2.5 wt.% by total surfactant weight of a linear or branched alkyl ether sulfate having the structure of Formula (2), an average number of carbon atoms, n_m, in R^2 between 9 and 10, and an average value of y from 0.5 to 2.5.

29. A gypsum slurry comprising gypsum, water, and the surfactant composition of claim 28.

30. A gypsum board comprising a core and facing sheets, the core comprising the gypsum slurry according to claim 29 and having multiple foam voids.

Fig. 1


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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2018/026242

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - C04B 24/16; C04B 28/14; C07C 305/04 (2018.01)

CPC - C04B 2103/40; C04B 24/16; C04B 28/14; C04B 2111/0062; C07C 305/04 (2018.08)

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

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

See Search History document

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

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

See Search History document

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2008/0223258 A1 (BRUCE et al) 18 September 2008 (18.09.2008) entire document	1, 17, 22-30
A	WO 2016/205170 A1 (STEPAN COMPANY) 22 December 2016 (22.12.2016) entire document	1, 17, 22-30
A	US 7,033,431 B2 (MARTIN et al) 25 April 2006 (25.04.2006) entire document	1, 17, 22-30
A	US 6,348,076 B1 (CANAPERI et al) 19 February 2002 (19.02.2002) entire document	1, 17, 22-30
P, A	WO 2017/063047 A1 (CSR BUILDING PRODUCTS LIMITED et al) 20 April 2017 (20.04.2017) entire document	1, 17, 22-30

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
03 August 2018	22 AUG 2018
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, VA 22313-1450 Facsimile No. 571-273-8300	Authorized officer Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2018/026242

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☒ Claims Nos.: 18-21
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See Extra Sheets

Claims 1, 17, and 22-24 have been analyzed subject to the restriction as described in the Lack of Unity of Invention (See Extra Sheet). The claims are restricted to a surfactant composition comprising: 30% by weight of a first alkyl sulfate surfactant having Formula (1) in which R1 is linear alkyl having 6 carbon atoms and M1 is a cation selected as sodium; 40% by weight of a second alkyl sulfate surfactant different from the first alkyl sulfate surfactant, also having Formula (1): in which R1 is linear and has 7 carbon atoms and M1 is a cation selected as sodium; and 0% by weight of an alkyl ether sulfate comprising Formula (2): in which R2 is branched alkyl having 6 carbon atoms, y is 0.1, and M2 is a cation selected as sodium; surfactant compositions thereof; gypsum slurries thereof; and gypsum boards thereof.

Claims 25-30 have been analyzed subject to the Applicant's election of claims 25-27 as indicated in the Response to Invitation to Pay Additional Fees and, Where Applicable, Protest Fee, dated 19 July 2018 in the International Application filed on 05 April 2018.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.

3. ☒ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

1, 17, 22-30

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

☒ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2018/026242

Continued from Box No. III Observations where unity of invention is lacking

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees need to be paid.

Group I+: claims 1-17 and 22-30 are drawn to surfactant compositions, gypsum slurries thereof, and gypsum boards thereof.

The first invention of Group I+ is restricted to a surfactant composition comprising: 30% by weight of a first alkyl sulfate surfactant having Formula (1) in which R1 is linear alkyl having 6 carbon atoms and M1 is a cation selected as sodium; 40% by weight of a second alkyl sulfate surfactant different from the first alkyl sulfate surfactant, also having Formula (1): in which R1 is linear and has 7 carbon atoms and M1 is a cation selected as sodium; and 0% by weight of an alkyl ether sulfate comprising Formula (2): in which R2 is branched alkyl having 6 carbon atoms, y is 0.1, and M2 is a cation selected as sodium; surfactant compositions thereof; gypsum slurries thereof; and gypsum boards thereof. It is believed that claims 1, 17, and 22-24 read on this first named invention and thus these claims will be searched without fee to the extent that they read on the above embodiment.

Applicant is invited to elect additional formula(e) for each additional compound to be searched in a specific combination by paying an additional fee for each set of election. Each additional elected formula(e) requires the selection of a single definition for each compound variable. An exemplary election would be a surfactant composition comprising: 30% by weight of a first alkyl sulfate surfactant having Formula (1) in which R1 is linear alkyl having 14 carbon atoms and M1 is a cation selected as sodium; 40% by weight of a second alkyl sulfate surfactant different from the first alkyl sulfate surfactant, also having Formula (1): in which R1 is linear and has 7 carbon atoms and M1 is a cation selected as sodium; and 0% by weight of an alkyl ether sulfate comprising Formula (2): in which R2 is branched alkyl having 6 carbon atoms, y is 0.1, and M2 is a cation selected as sodium; surfactant compositions thereof; gypsum slurries thereof; and gypsum boards thereof. Additional formula(e) will be searched upon the payment of additional fees. Applicants must specify the claims that read on any additional elected inventions. Applicants must further indicate, if applicable, the claims which read on the first named invention if different than what was indicated above for this group. Failure to clearly identify how any paid additional invention fees are to be applied to the "+" group(s) will result in only the first claimed invention to be searched/examined.

The inventions listed in Groups I+ do not relate to a single general inventive concept under PCT Rule 13.1, because under PCT Rule 13.2 they lack the same or corresponding special technical features for the following reasons:

The Groups I+ formulae do not share a significant structural element requiring the selection of alternatives for the compound variables R1, M1, R2, M2, y, and accordingly these groups lack unity a priori.

Additionally, even if Groups I+ were considered to share the technical features of a surfactant composition comprising: 30% to 60% by weight of a first alkyl sulfate surfactant having Formula (1); 40% to 70% by weight of a second alkyl sulfate surfactant different from the first alkyl sulfate surfactant, also having Formula (1); and 0% to 7% by weight of an alkyl ether sulfate comprising Formula (2); a surfactant composition comprising: from 70 to 100 wt.% by total surfactant weight of a linear or branched alkyl sulfate; and from 0 to 30 wt.% by total surfactant weight of a linear or branched alkyl ether sulfate; a gypsum slurry comprising gypsum, water, and the surfactant composition; a gypsum board comprising a core and facing sheets, the core comprising the gypsum slurry and having multiple foam voids; a surfactant composition comprising from 91 to 99.5 wt.% by total surfactant weight of a linear or branched alkyl sulfate having the core structure of Formula (1); and from 0.5 to 9 wt.% by total surfactant weight of a linear or branched alkyl ether sulfate having the core structure of Formula (2); and a surfactant composition comprising: from 97.5 to 99.5 wt.% by total surfactant weight of a linear or branched alkyl sulfate having the core structure of Formula (1); and from 0.5 to 2.5 wt.% by total surfactant weight of a linear or branched alkyl ether sulfate having the core structure of Formula (2), these shared technical features do not represent a contribution over the prior art as disclosed by US 2008/0223258 A1 to Bruce et al and WO 2016/205170 A1 to Stepan Company.

US 2008/0223258 A1 to Bruce et al. teach a surfactant composition (Para. [0032],...alkyl and alkyl ether sulfate surfactant blends and the use of such materials as foaming agents...) comprising: 30% to 60% by weight of a first alkyl sulfate surfactant having Formula (1) wherein R1 is linear alkyl having 12 carbon atoms and M1 is sodium (Para. [0035], The first portion may further comprise sodium dodecyl sulfate...; Claim 15); 40% to 70% by weight of a second alkyl sulfate surfactant different from the first alkyl sulfate surfactant, also having Formula (1) wherein R1 is linear alkyl having 8 carbon atoms and M1 is sodium (Para. [0035], The first portion may further comprise...further comprise sodium octyl sulfate.; Claim 15); and 0% to 7% by weight of an alkyl ether sulfate comprising Formula (2) (Formula (2) is absent from the composition); a surfactant composition comprising: from 70 to 100 wt.% by total surfactant weight of a linear or branched alkyl sulfate (Para. [0035], The first portion may further comprise sodium dodecyl sulfate, and may still further comprise sodium octyl sulfate.; Claim 15); and from 0 to 30 wt.% by total surfactant weight of a linear or branched alkyl ether sulfate (alkyl ether sulfate is absent.); a gypsum slurry (Para. [0113]) comprising gypsum, water, and the surfactant composition (Para. [0113],... the constituents of foam, such as the foaming agents, water, and air, may be independently introduced into the calcined gypsum slurry.); a gypsum board (Para. [0032],... gypsum board core slurries...; Claim 19) comprising a core (Claims 18 and 19) and facing sheets (Claims 18 and 19), the core comprising the gypsum slurry (Claims 18 and 19; Para. [0113]) and having multiple foam voids (Para. [0033], Such foam may be particularly suitable for the simultaneous entrainment of microscopic and macroscopic foam voids into the formulated aqueous calcined gypsum slurry, which ultimatel(y becomes the core of gypsum board.); a surfactant composition (Para. [0032]) comprising from 91 to 99.5 wt.% by total surfactant weight of a linear or branched alkyl sulfate having the core structure of Formula (1) (Para. [0035], The first portion may further comprise sodium dodecyl sulfate, and may still further comprise sodium octyl sulfate.; Claim 11); and from 0.5 to 9 wt.% by total surfactant weight (Claim 11,...5 weight percent of the second portion...) of a linear or branched alkyl ether sulfate having the core structure of Formula (2) (Para. [0107], The second foaming agent may also be represented by general formula I. It may be described as a blend of ammonium C8-C10alkyl ether sulfate...).

WO 2016/205170 A1 to Stepan Company teaches a surfactant composition (Para. [0005]) comprising: from 97.5 to 99.5 wt.% by total surfactant weight of a linear or branched alkyl sulfate having the core structure of Formula (1) (Para. [0005], from 12 to 100 wt.% by total surfactant weight of the branched alkyl sulfate); and from 0.5 to 2.5 wt.% by total surfactant weight of a linear or branched alkyl ether sulfate having the core structure of Formula (2) (Para. [0005], from 0 to 30 wt.% by total surfactant weight of the alkyl ether sulfate.).

The inventions listed in Groups I+ therefore lack unity under Rule 13 because they do not share a same or corresponding special technical feature.