

What is claimed is:

1. A concentrated antimicrobial or non-antimicrobial composition,
comprising:
 - 5 between about 1 wt-% and about 30 wt-% of a propoxylated EO/PO block copolymer
surfactant; and
between about 10 wt-% and about 90 wt-% of at least one anionic surfactant and/or
nonionic surfactant;
wherein the composition is a low viscoelasticity liquid concentrate having an
10 active concentration of at least about 18% that is soluble in water and has a
viscosity of less than about 900 cPs, has a pH of about 1 to about 12 in a use
solution, and provides at least a 3 log microbial kill on a treated surface for the
antimicrobial composition.
- 15 2. The composition of claim 1, wherein the propoxylated EO/PO block copolymer
surfactant has the following structure $(EO)_n(PO)_m(EO)_n$ or $(PO)_m(EO)_n(PO)_m$, wherein
the molecular weight is between about 1000 g/mol and about 15,000 g/mol.
3. The composition of claim 2, wherein the EO/PO block copolymer surfactant has at
20 least 20% PO, at least 30% PO, at least 40% PO, at least 50% PO, or at least 60% PO with
a Ross Miles Foam of greater than or equal to 40 (0.1% @ 50°C).
4. The composition of any one of claims 2-3, wherein the EO/PO block copolymer
surfactant has a molecular weight of at least about 3000 g/mol.
- 25 5. The composition of any one of claims 1-4, further comprising a
propoxylated polymer or copolymer comprising one or more of: propoxylated
homopolymer; polyethyleneimine derivative propoxylated polymer having a PO group,
EO-PO group or PO-EO group, salts thereof, or mixtures thereof; an anionic extended
30 chain surfactant; a nonionic extended chain surfactant having a PO group.

6. The composition of claim 5, wherein the extended chain surfactant (a) has the formula $R-[L]_x-[O-CH_2-CH_2]_y$, wherein R is the lipophilic moiety, a linear or branched, saturated or unsaturated, substituted or unsubstituted, aliphatic or aromatic hydrocarbon radical having from about 8 to 20 carbon atoms, L is a linking group, such as a block of poly-propylene oxide, a block of poly-ethylene oxide, a block of poly-butylene oxide or a mixture thereof; x is the chain length of the linking group ranging from 5-25; and y is the average degree of ethoxylation ranging from 1-20, and/or (b) is an extended chain anionic surfactant and has the formula $R-[L]_x-[O-CH_2-CH_2]_y M$, wherein R is the lipophilic moiety, a linear or branched, saturated or unsaturated, substituted or unsubstituted, aliphatic or aromatic hydrocarbon radical having from about 8 to 20 carbon atoms, L is a linking group, such as a block of poly-propylene oxide, a block of poly-ethylene oxide, a block of poly-butylene oxide or a mixture thereof; x is the chain length of the linking group ranging from 1-15; y is the average degree of ethoxylation ranging from 1-5, and M is any ionic species, and/or (c) is an extended chain nonionic surfactant and has the formula $R-[L]_x-[O-CH_2-CH_2]_y$ where R is the lipophilic moiety, a linear or branched, saturated or unsaturated, substituted or unsubstituted, aliphatic or aromatic hydrocarbon radical having from about 8 to 20 carbon atoms, L is a polypropylene oxide linking group; x is the chain length of the linking group ranging from 2-25; and y is the average degree of ethoxylation ranging from 1-18.

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7. The composition of claim 6, wherein the propoxylated homopolymer is polypropylene glycol and does not provide surfactant activity.

8. The composition of any one of claims 1-7, wherein the concentrate composition comprises from about 1 wt-% to about 15 wt-% of the propoxylated EO/PO block copolymer surfactant, from about 1 wt-% to about 40 wt-% of the anionic surfactant, and from about 10 wt-% to about 70 wt-% of the nonionic surfactant.

9. The composition of any one of claims 1-8, wherein the anionic surfactant is an alkoxylated or un-alkoxylated linear or branched chain carboxylate.

10. The composition of claim 9, wherein the anionic surfactant is a C6-C10 medium chain length linear or branched chain carboxylate, or medium chain length linear or branched sulfate or sulfonate.
- 5 11. The composition of claim 9, wherein the anionic surfactant is comprised of sodium lauryl ether sulfate, sodium lauryl sulfate, alpha olefin sulfonate, alkylbenzene sulfonic acid, or a mixture thereof.
- 10 12. The composition of any one of claims 1-8, wherein the nonionic surfactant is an alcohol ethoxylate, block copolymer, amine oxide, alkylpolyglucoside, or combinations thereof.
13. The composition of any one of claims 1-12, wherein the pH of the use solution is between about 6 and about 10.
- 15 14. The composition of any one of claims 1-13, further comprising water and/or one or more additional functional ingredients comprising additional surfactants, solvents, solubility modifiers, humectants, metal protecting agents, stabilizing agents, corrosion inhibitors, sequestrants and/or chelating agents, preservatives, sheeting agents, pH modifying components, fragrances and/or dyes, hydrotropes or couplers, and/or buffers.
- 20 15. The composition of any one of claims 1-14, wherein the concentrate composition comprises at least 30% actives and has a viscosity less than about 500 cPs.
- 25 16. A kit comprising:
a two-part premix for a concentrated liquid composition comprising a first part and a second part;
wherein the first part comprises a propoxylated EO/PO block copolymer surfactant; and
30 wherein the second part comprises an anionic and/or nonionic surfactant and solvent(s).
17. The kit of claim 16, wherein the first part further comprises a propoxylated

homopolymer.

18. The kit of any one of claims 16-17, wherein the solvent comprises propylene glycol and hexylene glycol.

5 19. A method of cleaning a surface comprising:

providing a liquid composition according to any one of claims 1-15 to a surface; and optionally rinsing the surface in need thereof,

wherein the composition provides commercially acceptable cleaning performance, and

wherein the composition is effective at low and/or high temperatures.

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20. The method of claim 19, wherein the liquid composition is mixed into an aqueous use solution prior to applying to the surface in need of cleaning to dilute the composition to provide a use solution.

15 21. The method of any one of claims 19-20, wherein the commercially acceptable cleaning performance provides an antimicrobial efficacy of at least a 3 log microbial kill on the surface when an antimicrobial agent is included in the composition, or removal of soil after contacting the surface for a sufficient period of time.

20 22. The method of any one of claims 19-21, wherein the surface is ware.

23. The method of any one of claims 19-21, wherein the surface is a human tissue.

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