CLAIMS

What is claimed is:

1. A disinfectant composition comprising a) an effective amount of a hydrogen peroxide source, b) at least one aromatic alcohol, c) at least one glycol ether, d) at least one nonionic surfactant and optionally an anionic surfactant, and e) at least one acid, wherein the at least one aromatic alcohol comprises phenoxyethanol, wherein the nonionic surfactant comprises ethoxylated aliphatic alcohols, polyoxyethylene surfactants, polyethylene glycol esters, anhydrosorbitol esters, glycol esters, carboxylic amides, monoalkanolamine condensates, polyoxyethylene fatty acid amides or combinations thereof, and wherein the at least one acid comprises citric acid, lactic acid, glycolic acid, tartaric acid, formic acid, acetic acid, phosphoric acid, oxalic acid, propionic acid, or methane sulfonic acid.
2. The disinfectant composition, according to claim 1, wherein hydrogen peroxide source comprises a hydrogen peroxide solution, sodium percarbonate, potassium percarbonate, sodium perborate, potassium perborate, hydrogen peroxide urea or peroxide salts, hydrated salts thereof, or combinations thereof.
3. The disinfectant composition, according to claim 2, wherein the concentration of the hydrogen peroxide source is from 0.01 w/w% to 90 w/w%, of the total weight of the composition.
4. The disinfectant composition, according to claim 1, wherein at least one aromatic alcohol comprises phenoxyethanol, present in an amount from 0.01 w/w% - 50 w/w%, of the total composition.
5. The disinfectant composition, according to claim 1, wherein at least one glycol ether comprises diethylene glycol propyl ether, ethylene glycol monomethyl ether, ethylene glycol monoethyl ether, ethylene glycol monopropyl ether, ethylene glycol monoisopropyl ether, ethylene glycol monobutyl ether, diethylene glycol monomethyl ether, diethylene glycol monobutyl ether, diethylene glycol monoethyl ether, diethylene glycol mono-n-butyl ether, ethylene glycol dimethyl ether, ethylene glycol diethyl ether, ethylene glycol dibutyl ether, propylene glycol n-butyl ether, tripropylene glycol methyl ether, dipropylene glycol methyl ether, dipropylene

glycol butyl ether, triethylene glycol monobutyl ether, or combinations thereof, present in an amount from 0.01 w/w% - 50 w/w% of the total composition.

6. The disinfectant composition, according to claim 1, wherein at least one aromatic alcohol and at least one glycol ether is present as a blend and wherein the blend is in a ratio of 1:100 to 100:1.
7. The disinfectant composition, according to claim 6, wherein the blend of at least one aromatic alcohol and at least one glycol ether is present in an amount from 0.01 w/w% - 90 w/w% of the total composition.
8. The disinfectant composition, according to claim 7, wherein the blend of at least one aromatic alcohol and at least one glycol ether is present in an amount from 0.1 w/w% - 75 w/w% of the total composition.
9. The disinfectant composition, according to claim 1, wherein at least one non-ionic surfactant and/or anionic surfactants is present in an amount, wherein the total amount of surfactants present is in an amount from 0.01 w/w% - 15 w/w% of the total composition.
10. The disinfectant composition, according to claim 1, wherein the nonionic surfactant comprises caprylyl/capryl glucoside, C_{12}-C_{15}, ethoxylated alcohol, C_{12}-C_{14} secondary Ethoxylated alcohol 70%, 2-ethyl hexanol EO-PO nonionic surfactant, or combinations thereof.
11. The disinfectant composition, according to claim 1, wherein the anionic surfactant comprises linear alkylbenzene sulfonic acid, alkyl sulfates, alkanolamide sulfates, ethoxylated alkylphenols or combinations thereof.
12. The disinfectant composition, according to claim 1, wherein the total amount of the acids is from 0.01 w/w% - 15 w/w% of the total composition.
13. The disinfectant composition, according to claim 1, further comprising a straight or branched chain water soluble alcohol.
14. The disinfectant composition, according to claim 1, further comprising a peroxide stabilizer and/or chelating agent; wherein said stabilizer and/or chelating agent is present in an amount from 0.01 w/w% - 5 w/w% based on the weight of the total composition.
15. The disinfectant composition, according to claim 14, wherein the peroxide stabilizer and/or chelating agent comprises like phosphoric or phosphonic acid,

ethylenediamine tetraacetic acid (EDTA), Ethylenediamine-N,N'-disuccinic acid, 1-hydroxyethane-1,1-diphosphonic acid (HEDP) or salts thereof.

16. The disinfectant composition, according to claim 1, wherein the composition has a pH of 0 to 5.
17. The disinfectant composition, according to claim 1, further comprising a second biocidal agent present in an amount from 0.01 w/w% - 40 w/w%.
18. The disinfectant composition, according to claim 1, wherein the composition is a concentrate.
19. The disinfectant composition, according to claim 1, wherein the composition is a ready-to-use composition upon dilution with an aqueous solvent, non-aqueous solvent or mixture thereof.
20. The disinfectant composition, according to claim 1, wherein said composition is effective against tuberculosis and/or M. terrae, S. enterica, S. aureus, and P. aeruginosa.
21. The disinfectant composition, according to claim 20, wherein the composition is effective against tuberculosis and/or *M. terrae.*
22. The disinfectant composition, according to claim 1, wherein the composition provides an effective kill of >5 log reduction at contact time of 5 minutes or less.
23. The disinfectant composition, according to claim 22, wherein the composition provides an effective kill of >5 log reduction at contact time of 3 minutes.
24. A disinfectant composition, according to claim 1, comprising a) an effective amount of a hydrogen peroxide source, wherein said source comprises a hydrogen peroxide solution; b) at least one aromatic alcohol wherein said alcohol comprises phenoxyethanol; c) at least one glycol ether, wherein said glycol ether comprises diethylene glycol monobutyl ether; d) at least one nonionic and/or anionic surfactant, wherein said surfactant comprises C_{12}-C_{15}, Ethoxylated alcohol, C_{12}-C_{14} secondary Ethoxylated alcohol 70%, 2-ethyl hexanol EO-PO nonionic surfactant, Caprylyl/Decyl Glucoside, and/or linear alkylbenzene sulfonic acid; and e) at least one acid, wherein said acid comprises methanesulfonic acid; and wherein the composition is effective against tuberculosis and/or *M. terrae*.
25. A method for disinfecting a surface from *M. terrae*, wherein said method comprises applying an effective amount of the disinfectant composition, according to any one of claims 1 – 24, to a surface, to provide a >5 log reduction at a contact time of 5

minutes or less of the microbes located on said surface, wherein the surface comprises a floor, a wall, a countertop, an appliance, a fixture, fabric, textile, or other hard or soft surface.

26. A method for enhancing the disinfectant properties of a hydrogen peroxide source, wherein said method comprises adding a sufficient amount of b) at least one aromatic alcohol; c) at least one glycol ether; d) at least one nonionic surfactant and optionally an anionic surfactant; and e) at least one acid; with a hydrogen peroxide source and wherein the composition is applied to a surface, wherein the at least one aromatic alcohol comprises phenoxyethanol, wherein the nonionic surfactant comprises ethoxylated aliphatic alcohols, polyoxyethylene surfactants, polyethylene glycol esters, anhydrosorbitol esters, glycol esters, carboxylic amides, monoalkanolamine condensates, polyoxyethylene fatty acid amides or combinations thereof, wherein the at least one acid comprises citric acid, lactic acid, glycolic acid, tartaric acid, formic acid, acetic acid, phosphoric acid, oxalic acid, propionic acid, or methane sulfonic acid, and wherein the surface comprises a floor, a wall, a countertop, an appliance, a fixture, fabric, textile, or other hard or soft surface.

27. A two-part disinfectant, comprising: a first container including a) a biocidal amount of hydrogen peroxide, and a solvent; and a second container including b) at least one aromatic alcohol; c) at least one glycol ether; d) at least one nonionic surfactant and an anionic surfactant; and e) at least one acid, wherein the at least one aromatic alcohol comprises phenoxyethanol, wherein the nonionic surfactant comprises ethoxylated aliphatic alcohols, polyoxyethylene surfactants, polyethylene glycol esters, anhydrosorbitol esters, glycol esters, carboxylic amides, monoalkanolamine condensates, polyoxyethylene fatty acid amides or combinations thereof, and wherein the at least one acid comprises citric acid, lactic acid, glycolic acid, tartaric acid, formic acid, acetic acid, phosphoric acid, oxalic acid, propionic acid, or methane sulfonic acid.

28. The two-part disinfectant, according to claim 27, wherein said disinfectant is effective against tuberculosis and/or *M. terrae*, and wherein said disinfectant provides a >5 log reduction at a contact time of 5 minutes or less.

29. The two-part disinfectant according to claim 28, wherein said disinfectant provides a >5 log reduction at a contact time of 3 minutes.