WHAT IS CLAIMED:

1. A composition for preventing biofilms comprising:

a first non-oxidizing biocide blended with a second non-oxidizing biocide, the second biocide comprising a quaternary amine compound, the first biocide and the second biocide being blended with a stabilizing agent, the stabilizing agent comprising an alkyl trimethyl ammonium compound that is different than the second biocide, wherein the composition is a single phase solution.

2. The composition of claim 1, wherein the first biocide comprises a phosphonium sulphate salt.

3. The composition of claim 1 to 2, wherein the first biocide comprises bis[tetrakis(hydroxymethyl)phosphonium] sulphate.

4. The composition of claim 1 to 3, wherein the second biocide comprises a dialkyl dimethyl quaternary amine compound.

5. The composition of claim 1 to 4, wherein the composition has a total active concentration of the first and second biocide of at least 15% by weight.

6. The composition of claim 1 to 5, wherein the first biocide and the second biocide are present in the composition at a ratio of from 10:1 to 1:1.

7. The composition of claim 1 to 6, wherein the composition is polymer-free.

8. The composition of claim 1 to 7, wherein the second biocide comprises a monomeric dialkyl dimethyl quaternary amine compound.

9. The composition of claim 1 to 8, wherein the second biocide comprises a quaternary ammonium compound of the formula

$$(R^1R^2R^3R^4N^+)_n\ X^{n-} \quad (I)$$

wherein R^1 through R^4 are independently selected from the group consisting of C_{1-20} aliphatic hydrocarbyl groups and C_{7-11} aromatic hydrocarbyl groups, and X^{n-} is a counter-anion selected from the group consisting of carbonate, bicarbonate, halides, phosphates, ethosulfates, citrates, borates, nitrate, C_{1-20} carboxylates, and mixtures thereof, wherein *n* designates the number of negative charges of the counter-anion.

10. The composition of claim 1 to 9, wherein the alkyl group in the alkyl trimethyl ammonium compound has a carbon chain length of 4 to 48 carbon atoms.

11. The composition of claim 9, wherein X^{n-} comprises a halide.

12. A water treatment composition for oil field applications comprising the composition of claim 1 to 11 further comprising a corrosion inhibitor.

13. The water treatment composition of claim 12, further comprising an anti-foaming agent, a chelating agent, an anti-static agent, a surfactant, a dispersing agent, a scale inhibitor or mixtures thereof.

14. A process for producing a water treatment composition for oil field applications comprising diluting the composition defined in any one of claims 1 to 12 with a carrier comprising water and adding the diluted composition to a water source.

15. The process of claim 14, further comprising the step of adding to the diluted composition a corrosion inhibitor, a scale inhibitor, an anti-foaming agent, a chelating agent, an anti-static agent, a surfactant, a dispersing agent, or mixtures thereof.

16. A method of controlling biofilm in an industrial system comprising adding to an aqueous medium in the industrial system a composition comprising a first non-oxidizing biocide blended with a second non-oxidizing biocide, the second biocide comprising a quaternary amine compound, the first biocide and the second biocide being blended with a stabilizing agent, the stabilizing agent comprising an alkyl trimethyl ammonium compound that is different than the second biocide, wherein the composition comprises a single phase solution.

17. The process of claim 16, wherein the composition has a total active concentration of the first and second biocide of at least 15% by weight and the process further comprising the step of diluting the composition prior to adding the composition to the aqueous medium.

18. The process of claim 16 or 17, wherein the composition is combined with a corrosion inhibitor, a scale inhibitor, an anti-foaming agent, a chelating agent, an anti-static agent, a surfactant, a dispersing agent, or mixtures thereof.

19. The process of claim 16 to 18, wherein the first biocide comprises a phosphonium sulphate salt and the second biocide comprises a dialkyl dimethyl quaternary amine compound and wherein the first biocide and the second biocide are contained in the composition at a weight ratio of from 10:1 to 1:1