CLAIMS

1. A composition comprising

   one or more stable free available chlorine species, wherein the stable free available chlorine comprises at least 75 ppm to at most 1,000 ppm of a stable hypochlorous acid,

   one or more peroxides, and

   sodium chloride,

   wherein the composition has an osmolality of about 275 mOsm/kg to about 295 mOsm/kg, and

   wherein the one or more peroxides and the stable free available chlorine coexist.

2. The composition according to claim 1, wherein the one or more stable free available chlorine species is present in an amount of 30 ppm to 1,000 ppm.

3. The composition according to claim 2, wherein the one or more stable free available chlorine species is present in an amount of 30 ppm to 700 ppm.

4. The composition according to any one of claims 1-3, wherein the stable hypochlorous acid is present in an amount of at least 100 ppm to at most 700 ppm.

5. The composition according to claim 4, wherein the stable hypochlorous acid is present in an amount of at least 100 ppm to at most 500 ppm.

6. The composition according to claim 5, wherein the stable hypochlorous acid is present in an amount of at least 200 ppm to at most 450 ppm.

7. The composition according to any one of claims 1-3, wherein the one or more stable free available chlorine species comprises hypochlorous acid, hypochlorite (OCl^-), chlorine gas (Cl_2), superchloride (Cl_2^-), chlorine oxide radicial (ClO), peroxyhypochlorous acid (HOOCl), another reactive chlorine species (RCS), or a combination thereof.

8. The composition according to any one of claims 1-7, wherein the one or more peroxides is present in an amount equivalent to the amount of the one or more stable free available chlorine species.

9. The composition according to any one of claims 1-7, wherein the one or more peroxides is present in an amount that is less than the amount as the one or more stable free available chlorine species.

10. The composition according to any one of claims 1-7, wherein the one or more peroxides is present in an amount that is more than the amount as the one or more stable free available chlorine species.

11. The composition according to any one of claims 1-7, wherein the one or more peroxides is present in an amount of at least 0.1 ppm to at most 1,000 ppm.

12. The composition according to claim 11, wherein the one or more peroxides is present in an amount of at least 0.1 ppm to at most 500 ppm.

13. The composition according to any one of claims 1-12, wherein the one or more peroxides comprise hydrogen peroxide, sodium peroxide, calcium peroxide, lithium peroxide, potassium peroxide, other alkali metal peroxides, other alkali earth metal peroxides, or a combination thereof.

14. The composition according to any one of claims 1-13, wherein the sodium chloride is present in an amount of about 0.5% to about 1.0% by weight of the composition.

15. The composition according to claim 14, wherein the sodium chloride is present in an amount of about 0.7% to about 0.9% by weight of the composition.

16. The composition according to any one of claims 1-15, wherein the osmolality is from about 280 mOsm/kg to about 290 mOsm/kg or from about 285 mOsm/kg to about 287 mOsm/kg.

17. The composition according to any one of claims 1-16, further comprising one or more reactive oxygen species.

18. The composition according to claim 17, wherein the reactive oxygen species comprise oxygen gas (O_2), superoxide (O_2^-), singlet oxygen ($^1O_2$), α-oxygen (α-O), protonated oxygen (HO_2^+), hydroperoxyl radical (HO_2), hydroxyl radical (OH), peroxide (O_2^{-2}), ozone (O_3), ozonide (O_3^-), or a combination thereof.

19. A composition comprising about 100 ppm to about 425 ppm of stable free available chlorine species, one or more peroxides, and about 0.7% to about 0.9% by weight of sodium chloride, the composition having an osmolality of about 280 mOsm/kg to about 290 mOsm/kg.

20. A composition comprising about 100 ppm to about 425 ppm of stable free available chlorine species, one or more peroxides, and about 0.7% to about 0.9% by weight of sodium chloride, the composition having an osmolality of about 285 mOsm/kg to about 287 mOsm/kg.

21. A method of manufacture a composition, the method comprising

    adding sodium peroxide to purified water contained in a vessel to prepare an aqueous solution,

    introducing chlorine gas to the aqueous solution under hydrolysis conditions for a first period of time to produce a first reaction solution comprising one or more stable free available chlorine species and one or more peroxides

    adding sodium peroxide to the first reaction solution,

    introducing chlorine gas to the first reaction solution under hydrolysis conditions for a second period of time to produce a second reaction solution comprising one or more stable free available chlorine species and one or more peroxides, and

    adding sodium chloride to the second reaction solution to adjust the osmolality to a physiological compatible osmolality,

wherein the resulting second reaction solution has higher levels of one or more free available chlorine species and one or more peroxides as compared to the first reaction solution.

22. The method according to claim 21, wherein the sodium chloride is added in an amount of about 0.5% by weight to about 1.0% by weight, about 0.6% by weight to about 0.9% by weight, or about 0.7% by weight to about 0.8% by weight.

23. The method according to claim 21 or 22, wherein sodium peroxide added to the purified water in an amount of about 0.02% by weight to about 0.24% by weight, about 0.04% by weight to about 0.20% by weight, about 0.05% by weight to about 0.16% by weight, or about 0.06% by weight to about 0.12% by weight or

    wherein sodium peroxide added to the first reaction solution in an amount of about 0.02% by weight to about 0.24% by weight, about 0.04% by weight to about 0.20% by weight, about 0.05% by weight to about 0.16% by weight, or about 0.06% by weight to about 0.12% by weight.

24. The method according to any one of claims 21-23, wherein the chlorine gas is introduced to the aqueous solution at a rate of about 240 g/hour to about 320 g/hour, about 260 g/hour to about 300 g/hour, or about 280 g/hour, or

    wherein the chlorine gas is introduced to the first reaction solution at a rate of about 240 g/hour to about 320 g/hour, about 260 g/hour to about 300 g/hour, or about 280 g/hour.

25. The method according to any one of claims 21-24, wherein the composition is defined by any one of claims 1-20.

26. A composition according to any one of claims 1-20 for use in treating, preventing, and/or providing relief to an inflammatory response in a respiratory system of an individual.

27. Use of a composition according to any one of claims 1-20 in the manufacture of a medicament for treating, preventing, and/or providing relief to an inflammatory response in a respiratory system of an individual.