Claims

1. A composition comprising:

   1) at least 30 ppm to at most 700 ppm of hypochlorous acid or at least 30 ppm to at most 700 ppm of free available chlorine; and

   2) one or more metallic particles, each of the one or more metallic particles being present in an amount of about 10 ppm to about 300 ppm, or one or more metal salts, each of the one or more metal salts being present in an amount of about 10 ppm to about 300 ppm,

   wherein the one or more metallic particles are single element metallic particles comprising copper, iron, titanium or zinc, mixed metallic particles comprising copper, iron, titanium, zinc, or any mixture thereof, or a metal oxide particle comprising copper, iron, titanium, zinc, or any combination thereof,

   wherein the one or more metal salts comprise copper, iron, titanium or zinc, and

   wherein the composition is a liquid composition, a colloidal composition, or a semi-solid composition.

2. The composition according to Claim 1, wherein the hypochlorous acid or free available chlorine is present in an amount of 50 ppm to 500 ppm.

3. The composition according to Claim 2, wherein the hypochlorous acid or free available chlorine is present in an amount of 75 ppm to 400 ppm.

4. The composition according to Claim 3, wherein the hypochlorous acid or free available chlorine is present in an amount of 100 ppm to 350 ppm.

5. The composition according to any one of Claims 1-4, wherein the one or more metallic particles or one or more metal salts are each present in an amount of 20 ppm to 200 ppm.

6. The composition according to Claim 5, wherein the one or more metallic particles or one or more metal salts are each present in an amount of 40 ppm to 140 ppm.

7. The composition according to any one of Claims 1-6, wherein the metal oxide particle includes copper oxide, iron oxide, titanium dioxide, zinc oxide, copper zinc iron oxide, or any combination thereof.

8. The composition according to any one of claims 1-7, wherein the one or more metal salts include a metal acetate, a metal chloride, a metal nitrate, a metal sulfate, or any combination thereof.

9. The composition according to Claim 8, wherein the metal chloride includes copper chloride, iron (II) chloride, iron (III) chloride, potassium chloride, titanium chloride, or zinc chloride.

10. The composition according to claim 1,

wherein the one or more metal salts comprise one or more metal chloride salts, the one or more metal chloride salts comprising copper chloride, iron (II) chloride, iron (III) chloride, potassium chloride, titanium chloride, or zinc chloride, and the composition not comprising one or more metallic particles.

11. The composition of claim 10, wherein the composition comprises 50 ppm to 500 ppm hypochlorous acid or 50 ppm to 500 ppm free available chlorine, and 20 ppm to 200 ppm copper chloride, 20 ppm to 200 ppm iron (III) chloride, and 20 ppm to 200 ppm zinc chloride.

12. A kit comprising a composition as defined in any one of claims 1-11.

13. A method to clean, disinfect and/or sterilize a device, the method comprising applying a composition as defined in any one of Claims 1-11 or a kit as defined in Claim 12, to a device, wherein application of the composition cleans, disinfects and/or sterilizes the device.

14. A composition as defined in any one of Claims 1-11 or a kit as defined in Claim 12 for use in cleaning, disinfecting and/or sterilizing a device.

15. Use of a composition as defined in any one of Claims 1-11 or a kit as defined in Claim 12 to clean, disinfect and/or sterilize a device.

16. A method to clean, disinfect and/or sterilize a surface area, the method comprising, consisting essentially of, or consisting of applying a composition as defined in any one of Claims 1-11 or a kit as defined in Claim 12, to the surface area, wherein application of the composition cleans, disinfects and/or sterilizes the surface area.

17. A composition as defined in any one of Claims 1-11 or a kit as defined in Claim 12 for use in cleaning, disinfecting and/or sterilizing a surface area.

18. Use of a composition as defined in any one of Claims 1-11 or a kit as defined in Claim 12 to clean, disinfect and/or sterilize a surface area.

19. The method of Claim 16, the composition of Claim 17, or the use of Claim 18, wherein the surface area is a porous surface area or a non-porous surface area.

20. The method of Claim 16 or 19, the composition of Claim 17 or 19, or the use of Claim 18 or 19, wherein the surface area comprises a tabletop, a countertop, a floor, a wall, a ceiling, a window, a door, a door

handle, a shower, a bath, a sink, a faucet, a toilet, a toilet seat, a drain, an equipment, a machinery, a personal protective gear, a personal biohazard gear, a medical device, a dental device, a pharmaceutical device, a veterinary device, or a mortuary device.