17. The method of claim 1 wherein a dried coating of the composition on a substrate surface has a contact angle of less than 40 degrees.

~~18. A rinse-aid composition comprising:~~

~~a sulfonated silane;~~

~~a metal salt; and~~

~~a surfactant.~~

~~19. The composition of claim 18 further comprising a hydrophilic polymer.~~

~~20. The composition of claim 19 wherein the hydrophilic polymer is a polycarboxylate.~~

~~21. The composition of claim 18 wherein a dried coating of the composition on a substrate surface has a contact angle of less than 40 degrees.~~

~~22. The composition of claim 18 wherein the sulfonated silane comprises a zwitterionic sulfonated silane.~~

~~23. The composition of claim 22 wherein the zwitterionic sulfonated silane has the following formula (Formula II):~~



~~(II)~~

~~wherein:~~

~~each R^1 is independently a hydrogen, methyl group, or ethyl group;~~

~~each Q^2 is independently selected from hydroxyl, alkyl groups containing from 1 to 4 carbon atoms and alkoxy groups containing from 1 to 4 carbon atoms;~~

~~each R^2 and R^4 is independently a saturated or unsaturated, straight chain, branched, or cyclic organic group, which may be joined together, optionally with atoms of the group W, to form a ring;~~

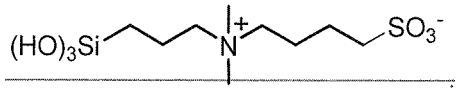
~~W is an organic linking group;~~

~~p and m are integers of 1 to 3;~~

q is 0 or 1; and

p+q=3.

24. The composition of claim 23 wherein the zwitterionic sulfonated silane is



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25. The composition of claim 18 wherein the metal salt comprises a combination of a source of aluminum ion and a source of zinc ion.

26. The composition of claim 18 wherein the surfactant is a nonionic ethylene oxide containing surfactant.

27. The composition of claim 18 further comprising a nonpolymeric organic acid with one or more carboxylic acid moieties per molecule.

28. A solid rinse aid composition comprising:

a sulfonated silane;

a surfactant; and

a solidification agent.

29. The composition of claim 28 further comprising a hydrophilic polymer.

30. The composition of claim 29 wherein the hydrophilic polymer is a polycarboxylate.

31. The composition of claim 28 wherein a dried coating of the composition on a substrate surface has a contact angle of less than 40 degrees.

32. The composition of claim 28 wherein the sulfonated silane comprises a zwitterionic sulfonated silane.

~~33. The composition of claim 32 wherein the zwitterionic sulfonated silane has the following formula (Formula II):~~

~~$(R^1O)_p$-Si$(Q^2)_q$-W-$N^+(R^2)(R^3)$-$(CH_2)_m$-SO_3^-~~

~~(II)~~

~~wherein:~~

~~each R^1 is independently a hydrogen, methyl group, or ethyl group;~~

~~each Q^2 is independently selected from hydroxyl, alkyl groups containing from 1 to 4 carbon atoms and alkoxy groups containing from 1 to 4 carbon atoms;~~

~~each R^2 and R^3 is independently a saturated or unsaturated, straight chain, branched, or cyclic organic group, which may be joined together, optionally with atoms of the group W, to form a ring;~~

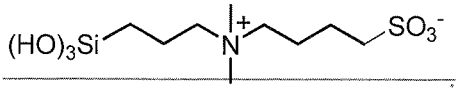
~~W is an organic linking group;~~

~~p and m are integers of 1 to 3;~~

~~q is 0 or 1; and~~

~~p+q=3.~~

~~34. The composition of claim 33 wherein the zwitterionic sulfonated silane is~~



~~35. The composition of claim 28 further comprising a metal salt.~~

~~36. The composition of claim 35 wherein the metal salt comprises a combination of a source of aluminum ion and a source of zinc ion.~~

~~37. The composition of claim 28 wherein the surfactant is a nonionic ethylene oxide containing surfactant.~~

~~38. The composition of claim 28 further comprising a nonpolymeric organic acid with one or more carboxylic acid moieties per molecule.~~

~~39~~18. A solid tableware detergent composition comprising:

a sulfonated silane;

a surfactant;

an alkaline source; and

a solidification agent.

~~40~~19. The composition of claim ~~39~~ 18 wherein a dried coating of the composition on a substrate surface has a contact angle of less than 40 degrees.

~~41~~20. The composition of claim ~~39~~ 18 wherein the sulfonated silane comprises a zwitterionic sulfonated silane.

~~42~~21. The composition of claim ~~41~~ 20 wherein the zwitterionic sulfonated silane has the following formula (Formula II):

$$(R^1O)_p\text{-}Si(Q^2)_q\text{-}W\text{-}N^+(R^2)(R^3)\text{-}(CH_2)_m\text{-}SO_3^-$$

(II)

wherein:

each R^1 is independently a hydrogen, methyl group, or ethyl group;

each Q^2 is independently selected from hydroxyl, alkyl groups containing from 1 to 4 carbon atoms and alkoxy groups containing from 1 to 4 carbon atoms;

each R^2 and R^3 is independently a saturated or unsaturated, straight chain, branched, or cyclic organic group, which may be joined together, optionally with atoms of the group W, to form a ring;

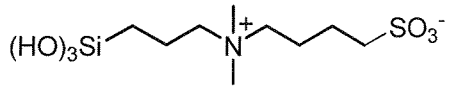
W is an organic linking group;

p and m are integers of 1 to 3;

q is 0 or 1; and

p+q=3.

~~43~~22. The composition of claim ~~42~~ 21 wherein the zwitterionic sulfonated silane is



~~44~~23. The composition of claim ~~39~~ 18 wherein the alkaline source comprises a metal carbonate, an alkali metal hydroxide, or a combination thereof.

~~45~~24. The composition of claim ~~39~~ 18 wherein the surfactant is a nonionic ethylene oxide containing surfactant.