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Claims

1. Use of a composition as antiviral and/or antimicrobial agent, wherein the water soluble composition comprises at least
 - 5 - a positively charged natural or unnatural amino acid,
 - an organic acid,
 - a cationic polymer, and
 - a zwitterionic surfactant.
- 10 2. Use according to claim 1, wherein the composition comprises up to 92% by weight of water.
3. Use according to any of the preceding claims, wherein the organic acid is selected from the group consisting of malic acid, citric acid, lactic acid, acetic acid,
15 glutamic acid, ascorbic acid and benzoic acid or a mixture thereof, preferably malic acid and/or glutamic acid.
4. Use according to any of the preceding claims, wherein the positively charged amino acid is selected from the group consisting of L-arginine, L-lysine, L-histidine,
20 ornithine, 2,4-diaminobutanoic acid, 2,3-diaminopropanoic acid, 3-(aminoiminomethyl)amino-alanine, 2-amino-4-(aminoiminomethyl)aminobutanoic acid, N6-(aminoiminomethyl) lysine, 2-amino-7-(aminoiminomethyl)aminoheptanoic acid, 2,7-diaminoheptanoic acid,
25 2, 8-diamino-octanoic acid, 2, 9-

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5 diaminononanoic acid, 2,10-diaminodecanoic acid, 4-(aminoiminomethyl)phenylalanine and 4-(aminoiminomethyl)aminophenylalanine, preferably L-arginine, L-lysine, L-histidine, and most preferably L-arginine.

5. Use according to any of the preceding claims, wherein the cationic polymer is selected from the group consisting of polyquaternium, fatty amines, polyethyleneimine or a copolymer thereof, cationic starch, metal cation
10 components and mixture thereof, preferably a polyquaternium, and most preferably polyquaternium and derivatives.

6. Use according to claim 5, wherein the cationic polymer is a branched polyethyleneimine which is at least partly
15 crosslinked, preferably with a crosslinker selected from the group consisting of phthalaldehyde and PEG.

7. Use according to any of the preceding claims, wherein the composition additionally comprises a humectant and or antistatic material.

20 8. Use according to any of the preceding claims, wherein the composition comprises L-arginine as positively charged amino acid and malic acid and/or glutamic as organic acid, preferably in a ratio of 1:10.

9. Use according to any of the preceding claims, wherein the
25 composition comprises at least

0.02 to 8 % by weight of a positively charged natural or unnatural amino acid,

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0.02 to 8 % by weight of an organic acid,
0.02 to 5 % by weight of a cationic polymer, and
0.02 to 8 % by weight of a zwitterionic surfactant,
preferably at least

- 5 0.02 to 8 % by weight L-arginine,
0.2 to 5 % by weight of malic acid or glutamic acid
or a mixture thereof,
0.02 to 5 % by weight of a polyquaternium
0.02 to 8 % by weight of a cocamidopropyl betaine.

- 10 10. Use according to any of the preceding claims, wherein the
composition is free of ethanol.
11. Use according to any of the preceding claims to inactivate
a virus and a bacteria selected from the group consisting
of corona virus, influenza virus, human rhinovirus (HRN),
15 parainfluenza virus (PIN), respiratory syncytial virus
(RSN), adenovirus, metapneumovirus, and rhinovirus, and
especially SARS-COV-2 or a mutant thereof.
12. Use according to any of the preceding claims, wherein the
composition is provided as a spray, a pre-spray gel, a
20 water soluble pod, a mist, a strip, a lozenge and wash
system.
13. A carrier which is coated with a composition according to
any of the preceding claims or its essentially water-free
dried form.

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14. Carrier according to claim 13, wherein the carrier is selected from the group consisting of air filters, personal protective equipment, N95 surgical mask, community mask, textile mask, foam mask, Bandana mask, molded fiber devices, foam textiles, cotton textiles, cellulose textiles, composites, nasal inserts, foam nasal inserts, nasal filters, nasal screens, nasal filters, air filters, surgical gowns, coverings and wipes.
15. Carrier according to claim 13 or 14, wherein the carrier is additionally treated with cold atmospheric plasma and or corona to create surface electrostatic and cationic charges.