Claims

Claim 1. A formulation with active oxygen compounds for the maintenance and preservation of a healthy condition of and/or care for the skin, its tissues, mucous membranes, structures and systems, including subcutaneous tissues with finger- and toenails and cuticle, and for the maintenance and preservation of a healthy condition of and/or care for the oral cavity, its tissues, mucous membranes, structures and systems, including teeth, periodontal tissues (gingiva), interdental spaces and their structures and systems, which contains hydrogen peroxide as a source of active oxygen compounds, characterised by the fact that it further includes the following:

- silver in colloidal form and/or gold in colloidal form;
- aloe vera selected from the group consisting of an extract of leaves of the aloe species Aloe barbadensis, an extract of aloe flowers of the species Aloe barbadensis, a gel that is extruded from the leaves of the species Aloe barbadensis, an Aloe arborescens leaf extract and an Aloe ferox leaf extract;
- hyaluronic acid and/or
- additional moisturiser selected from the group consisting of glycerol and propylene glycol.

Claim 2. A formulation with active oxygen compounds according to claim 1, characterised in that it further includes panthenol.

Claim 3. A formulation with active oxygen compounds according to claim 1 and/or 2, characterised in that it further includes one or more flavours.

Claim 4. A formulation with active oxygen compounds according to claim 1, 2 and/or 3, characterised in that it further includes one or more perfumes.

Claim 5. A formulation with active oxygen compounds according to claim 1, 2, 3 and/or 4, characterised in that it further includes a gelling agent.

Claim 6. A formulation with active oxygen compounds according to claim 1, 2, 3, 4 and/or 5, characterised in that it further includes one or more supplemental ingredients that is or that are selected from:

- one or more oils selected from oils such as olive oil, argan oil, jasmine oil, hemp oil, flaxseed oil, jojoba oil, coconut oil, avocado oil, oils from citrus peel or oranol oil, babassu oil, sunflower oil and palm oil, and/or
- one or more vitamins selected from vitamins A, C, E, D, K and/or B complex vitamins, and/or
- one or more fatty acids selected from essential fatty acids, most preferably selected from omega 3 fatty acids, and/or
- one or more minerals selected from magnesium Mg, zinc Zn and/or selenium Se, which are preferably in the form of a citrate, chloride and/or carbonate, and/or
- one or more active ingredients of plant origin selected from active ingredients of ginger (Zingiber Officinale), purple cornflower (Echinacea Purpurea), myrrh (Commiphora Abyssinica), marigold (Calendula Officinalis), and/or St. John's wort (Hypericum Perforatum), which are preferably extracts from said plants and/or parts thereof, and/or
- one or more antioxidants selected from vitamins C, E and/or A and astaxanthin.

Claim 7. A formulation with active oxygen compounds according to the preceding claim 1, 2, 3, 4, 5 and/or 6, characterised by the fact that hydrogen peroxide is present in a concentration within a range of from and including 0.5 weight % up to and including 6 weight % of the formulation.

Claim 8. A formulation with active oxygen compounds according to the preceding claim 1, 2, 3, 4, 5, 6 and/or 7, characterised by the fact that hydrogen peroxide is preferably present in a concentration within a range of from and including 1.5 weight % up to and including 3 weight % of the formulation.

Claim 9. A formulation with active oxygen compounds according to the preceding claim 1, 2, 3, 4, 5, 6, 7 and/or 8, characterised by the fact that hydrogen peroxide is preferably present in a concentration of 1.5 weight % of the formulation.

Claim 10. A formulation with active oxygen compounds according to the preceding claim 1, 2, 3, 4, 5, 6, 7 and/or 8, characterised by the fact that hydrogen peroxide is preferably present in a concentration of 3 weight % of the formulation.

Claim 11. A formulation with active oxygen compounds according to the preceding claim 1, 2, 3, 4, 5, 6, 7, 8, 9 and/or 10, characterised by the fact that silver in colloidal form is present in a concentration within a range of from and including 0.1 weight % up to and including 4 weight % of the formulation.

Claim 12. A formulation with active oxygen compounds according to the preceding claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 and/or 11, characterised by the fact that gold in colloidal form is present in a concentration within a range of from and including 0.1 weight % up to and including 4 weight % of the formulation.

Claim 13. A formulation with active oxygen compounds according to the preceding claim 1, 2, 3, 4, 5, 6, 7, 8, 9 and/or 10, characterised by the fact that silver and gold in colloidal form are simultaneously present in a total concentration within a range of from and including 0.1 weight % up to and including 4 weight % of the formulation.

Claim 14. A formulation with active oxygen compounds according to the preceding claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 and/or 13, characterised by the fact that aloe vera is present in a concentration within a range of from and including 0.2 weight % up to and including 10 weight % of the formulation.

Claim 15. A formulation with active oxygen compounds according to the preceding claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and/or 14, characterised by the fact that hyaluronic acid is present in a concentration within a range of from and including 0.2 weight % up to and including 10 weight % of the formulation.

Claim 16. A formulation with active oxygen compounds according to the preceding claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 and/or 15, characterised by the fact that additional moisturiser is present in a concentration within a range of from and including 0.2 weight % up to and including 10 weight % of the formulation.

Claim 17. A formulation with active oxygen compounds according to the preceding claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and/or 16, characterised by the fact that panthenol is present in a concentration within a range of from and including 0.2 weight % up to and including 10 weight % of the formulation.

Claim 18. A formulation with active oxygen compounds according to the preceding claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 and/or 17, characterised by the fact that flavour is present in a weight concentration within a range of from and including 0.01 weight % up to and including 1 weight % of the formulation.

Claim 19. A formulation with active oxygen compounds according to the preceding claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 and/or 18, characterised by the fact that perfume is present in a weight concentration within a range of from and including 0.01 weight % up to and including 3 weight % of the formulation.

Claim 20. A formulation with active oxygen compounds according to the preceding claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 and/or 19, characterised by the fact that gelling agent is present in a weight concentration within a range of from and including 1 weight % up to and including 5 weight % of the formulation.

Claim 21. A formulation with active oxygen compounds according to the preceding claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 and/or 20, characterised by the fact that supplemental ingredient according to claim 7 is present in a weight concentration within a range of from and including 0.01 weight % up to and including 5 weight % of the formulation.

Claim 22. A formulation with active oxygen compounds according to the preceding claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 and/or 21, characterised by the

fact that glycerine is present in a weight concentration within a range of from and including 0.2 weight % up to and including 5 weight % of the formulation.

Claim 23. A formulation with active oxygen compounds according to the preceding claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 and/or 22, characterised by the fact that it is a formulation in the form of a solution, gel, emulsion, lotion, milk, spray, cream, mouthwash, paste, film dressing, liposomes and/or mycelia.

Claim 24. A formulation with active oxygen compounds according to the preceding claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 and/or 22, characterised by the fact that it is a formulation in the form of liposomes and/or mycelia.

Claim 25. A formulation with active oxygen compounds according to the preceding claim 24, characterised by the fact that in the formulation in the form of liposomes and/or mycelia, hydrogen peroxide is preferably present in a concentration within a range of from and including 1 weight % up to and including 6 weight % of the formulation.

Claim 26. A formulation with active oxygen compounds according to each of claims 23-25, characterised by the fact that it is a formulation in the form of a solution, gel, emulsion, lotion, milk, spray, cream, film dressing, liposomes and/or mycelia and that it is for skin and integumentary systems on the surface of the body of the organism and/or in the ears.

Claim 27. A formulation with active oxygen compounds according to each of claims 23-25, characterised by the fact that it is a formulation in the form of a solution, gel, emulsion, lotion, milk, spray, cream, film dressing, liposomes and/or mycelia and that it is for finger- and toenails.

Claim 28. A formulation with active oxygen compounds according to each of claims 23-25, characterised by the fact that it is a formulation in the form of a solution, mouthwash, spray, gel, paste, emulsion, film dressing, liposomes and/or mycelia and that it is for the oral cavity and related mucous membranes, tissues, systems and structures, including teeth, interdental spaces and periodontal tissues (gingiva).

Claim 29. The procedure for production of formulation with active oxygen compounds according to the preceding claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 and/or 22, characterised by the fact that it includes the following steps:

a) production of a semi-finished product, where the semi-finished product is a said formulation with active oxygen compounds and other said active ingredients and ingredients prior to being packaged in packaging of different sizes with different gram and/or volume contents of the formulation, and where production of the said semi-finished product includes the following steps:

- first basic components of the active oxygen compounds are produced and prepared from hydrogen peroxide;
- this is followed by filtration and stabilisation of hydrogen peroxide with stabilisers for nutritional use;
- this is followed by dosing or weighing of the basic raw material of hydrogen peroxide into the mixing reactor and continuous stirring with the gradual addition of the active ingredients and ingredients of the formulation of this invention according to the increasing density rule, where the ingredients of lesser density are added first and then the denser ingredients are added and finally the densest ingredient, thus preparing a semi-finished product;
- the free-fall outflow of the semi-finished product, where the semi-finished product is drained in free fall from the mixing reactor into a prepared storage container sealed to prevent access of oxygen, air and other environmental elements;
- storage of the semi-finished product in the storage container until it is filled into packaging in an environment free of air, oxygen and/or other gases and/or other environmental elements;

b) production of the final product that includes the following steps:

- filling a semi-finished product into packaging and the packaging process.