Claims

1. A composition suitable for topical application comprising water, dimethyl isosorbide, a polyol and a phenolic or polyphenolic antioxidant, wherein the polyol is selected from the group of 1,3-butanediol and 1,5-pentanediol and wherein the composition comprises panthenol,
   wherein the phenolic or polyphenolic antioxidant is a non-flavonoid phenolic or polyphenolic antioxidant selected from the group consisting of resveratrol and ferulic acid.

2. The composition according to claim 1, wherein the dimethyl isosorbide content is 0.1 to 50 wt%, the polyol content is 0.1 to 50 wt%, and the content of the phenolic or polyphenolic antioxidant is 0.001 to 20 wt%.

3. The composition according to any of the preceding claims, wherein the composition additionally comprises a supporting anti skin irritation compound selected from the group comprising glycyrrhizinate, allantoin, ectoin, bisabolol, and/or a plant extract selected from the group comprising Aloe Barbadensis leaf extract and Oriza Sativa bran extract.

4. The composition according to any of the preceding claims, wherein the composition in addition comprises an oil phase.

5. The composition according to claim 4, wherein the composition is an emulsion.

6. The composition of any of the previous claims, wherein the polyol is an alkane dial, glycerol, polyglycerol, a sugar or a sugar derivative, wherein the sugar derivative is selected from the group comprising sorbitol, glucose, ribose, xylitol, sucrose, lactose and xylose.

7. The composition of any of the preceding claims, wherein the composition in addition comprises at least one further labile active substance selected from the group comprising a further phenolic or polyphenolic antioxidant, ascorbic acid, tocopherol, retinol and enzymes such as superoxide dismutase.

8. A method for producing a composition according to any of the preceding claims comprising the steps of:
    a) providing an aqueous solution comprising dimethyl isosorbide and a polyol,
    b) providing a phenolic or polyphenolic antioxidant selected from the group consisting of resveratrol and ferulic acid,
    c) mixing the aqueous solution and the phenolic or polyphenolic antioxidant shortly before use,

    wherein the polyol is selected from the group of 1,3-butanediol and 1,5-pentanediol and wherein the composition comprises panthenol.

9. The method of claim 9, wherein the phenolic or polyphenolic antioxidant is provided in the form of a lyophilisate.

10. A kit for making a composition according to any of claims 1 to 7 comprising:
    a) an aqueous solution comprising dimethyl isosorbide and a polyol,
    b) a phenolic or polyphenolic antioxidant selected from the group consisting of resveratrol and ferulic acid,

    wherein the polyol is selected from the group of 1,3-butanediol and 1,5-pentanediol and wherein the composition comprises panthenol.

11. The kit according to claim 10, wherein the phenolic or polyphenolic antioxidant is provided in the form of a lyophilisate.

12. The kit according to claim 11, wherein the lyophilisate in addition comprises at least one compound selected from the group comprising an additional labile active substance, an oil phase, an emulsifier, and a polymer.

13. Use of a phenolic or polyphenolic antioxidant in the manufacture of a medicament comprising a polyol selected from the group of 1,3-butanediol and 1,5-pentanediol, and panthenol, and wherein the phenolic or polyphenolic antioxidant is selected from the group consisting of resveratrol and ferulic acid for protecting skin from UV-induced free radicals.