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CLAIMS

1. A skin protection agent comprising:

a) 0.2 to 10% w/w of at least one aliphatic, unbranched diol with 2 to 4 carbon atoms in the hydrocarbon chain;

b) 0.1 to 1.9% w/w of at least one further aliphatic diol with 4 to 12 carbon atoms in the hydrocarbon chain that is different from a);

c) 0.5 to 10% w/w of at least one single-value aliphatic alcohol with 12 to 30 carbon atoms in the hydrocarbon chain;

d) 0.1 to 5% w/w of 1,2-tropolone;

e) 1 to 25% w/w of an emulsifier mixture selected from PEG–30 glyceryl cocoate, PEG–6 caprylic/capric glyceride, sorbitan sesquicaprylate, sucrose cocoate, isoamyl cocoate polyglyceryl-3 caprate, PPG-3 myristyl ether, PPG-11 stearyl ether, cetearyl isononanoate, cetyl ethyl hexanoates, caprylic/capric triglyceride, decal cocoates, diethylhexyl carbonate, decyl oleate, PPG-15 stearyl ether, octyl dodecanol, isocetyl palmitate, isohexadecane, cetearyl ethyl hexanoate, isopropyl myristate, oleyl erucate, ethyl hexyl palmitate, ethyl hexyl stearate, isopropyl palmitate, PPG-14 butyl ether, triisostearine, C12-15 alkyl benzoate, cetyl ricenoleate, glyceryl ricenoleate, glyceryl stearate, isocetyl palmitate, isocetyl stearate, tocopheryl linoleate, methylheptyl isostearate and mixtures of the same;

f) 30 to 90% w/w water, and

g) further components of a quantity of 100% w/w - (sum of quantities of the components a) to f)),

whereby the % w/w each relate to the total weight of the skin protection agent and add up to the sum of all component weights (% w/w), i.e. 100% w/w.

2. Skin protection agent according to claim 1, characterised in that the diols of component a) are selected from at least one aliphatic, unbranched diol with 2 to 4 carbon atoms in the hydrocarbon chain, and with two functional OH groups that comprise no further functional groups.

3. Skin protection agent according to one of the claims 1 to 2, characterised in that the diols of component b) are selected from 1,2-alkan diols with 6 to 12 carbon atoms; and/or 1,3-alkan diols with 4 to 12 carbon atoms and/or α-ω-4 alkan diols with 6 to 12 carbon atoms and/or monoalkyl glycerines with 4 to 12 carbon atoms.

4. Skin protection agent according to one of claims 1 to 3, characterised in that the alcohols of component c) are selected from linear, saturated, preferably primary alkanols with 12 to 30 carbon atoms in the hydrocarbon chain.

5. Skin protection agent according to one of the claims 1 to 4, characterised in that it comprises a combination of components a) 1,2-propandiol, b) a mixture of 1,2-hexandiol and 1,2-octandiol, c) ceteary alcohol.

6. Skin protection agent according to one of the claims 1 to 5, characterised in that it further comprises an emulsifier mixture e) consisting of a combination of polyolpoly-12-hydroxy stearates with an alkyl and/or alkylene glucoside and a fat alcohol and/or partial glycerindene and possible further co-emulsifiers, particularly preferably at least one ethoxylated dipolyhydroxy stearate.

7. Skin protection agent according to one of claims 1 to 4 and 6, characterised in that it comprises:

a) 0.2 to 10% w/w of at least one diol selected from 1,2-propandiol, 1,3-propandiol, 1,2-ethandiol, 1,2-butandiol, 1,3-butandiol and/or 1,4-butandiol,

b) 0.1 to 1.9% w/w of at least one further aliphatic diol selected from 1,2- hexandiol, 1,3-hexandiol, 1,6-hexandiol, 1,2-octandiol 1,3-octandiol, 1,8-octandiol, 1,2-decandiol, 1,10-decandiol, 1,2-dodecandiol, glyceryl caprylate, methyl propane diol, ethyl hexyl glycerine, hexylene glycol that is different from a);

c) 0.5 to 10% w/w of at least one alcohol selected from lauryl alcohol, cetyl alcohol, stearyl alcohol, ceryl alcohol and/or myricyl alcohol;

d) 0.1 to 5% w/w of 1,2-tropolone;

e) 1 to 25% w/w of an emulsifier mixture consisting of a combination of polyolpoly-12-hydroxy stearates with an alkyl and/or alkylene glucoside and a fat alcohol and/or partial glycerindene and possible further coemulsifiers, particularly preferably at least one ethoxylated dipolyhydroxy stearate;

f) 50 to 85% w/w water;

g) further components of a quantity of 100% w/w - (sum of quantities of the components a) to f)); whereby the % w/w each relate to the total weight of the skin protection agent and add up to the sum of all component weights (% w/w), i.e. 100% w/w.

8. Skin protection agent according to one of claims 1 to 7, characterised in that it is free from preservatives, whereby components a), b) and c) are not included under the term preservatives.