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ABSTRACT OF THE DISCLOSURE

An aqueous cosmetic or dermatological preparation for application on wet or moist skin which is substantially emulsifier-free and comprises one or more lipophilic 5 perfume ingredients, one or more lipophobic perfume ingredients, a weight ratio thereof being from about 0.5:1 to about 4:1, and at least about 13 % by weight of microcrystalline wax, based on a total weight of the preparation.

FIXING OF PERFUME ON WET SKIN

Related Applications

5 The present application claims priority of German Patent Application No. 10 2011 085 509.2, filed October 31, 2011, and German Utility Model Application No. 20 2012 000 163.9, filed January 10, 2012. The entire disclosures of these documents are expressly incorporated by reference herein.

Field of the Invention

10 The present invention relates to a substantially emulsifier-free aqueous cosmetic or dermatological preparation comprising at least about 13% by weight of microcrystalline wax and a ratio of lipophilic to lipophobic perfume ingredients of from about 0.5:1 to about 4:1. The preparation is suitable for application on wet skin and thus permits use while showering and imparts a scent-sensory impression both 15 during use under the shower and also after it which has a long-lasting effect and can be readily perceived by the consumer.

Background of the Invention

20 Any discussion of the prior art throughout the specification should in no way be considered as an admission that such prior art is widely known or forms part of common general knowledge in the field.

25 Cosmetic or dermatological preparations can be divided on the basis of their application time and their application purpose. Some products are immediately washed off after use ("rinse-off"), others are intended to remain for longer on the skin and are effective there ("leave-on").

30 Cosmetic preparations for skin care are primarily developed for use on dry skin. This form of preparations are known as leave-on preparations, such as creams, lotions or body milk. Often, these are formulated as emulsions, in particular W/O, O/W, O/W/O or W/O/W emulsions.

Emulsions are generally understood as meaning heterogeneous systems which comprise two liquids that are immiscible or only miscible to a limited extent and which are usually referred to as phases. In an emulsion, one of the two liquids is dispersed in the form of very fine droplets in the other liquid. The liquids (pure or as solutions) are present in an emulsion in a more or less fine distribution which is generally stable only to a limited extent.

If the two liquids are water and oil and oil droplets are present in finely dispersed form in water, then this is an oil-in-water emulsion (O/W emulsion, e.g. milk). The basic character, for example electrical conductivity, sensory properties, ability of the continuous phase to stain, of an O/W emulsion is defined by the water. In the case of a water-in-oil emulsion (W/O emulsion, e.g. butter), the principle is reversed, with the basic character being determined here by the oil.

Leave-on preparations are not suitable for use on wet or moist skin. Due to the emulsifiers present, they are able to emulsify water and, due to the lipids, optionally leave behind an oily film.

By contrast, rinse-off preparations are designed for use under the shower or while bathing.

A long-term scent impression with prior art preparations can likewise be imparted only by two different products which are applied in succession. In order to experience scent impressions while showering, the user is directed to, for example, perfumed shower gels, although the scent impression of these is lost after showering. Afterwards, the user only achieves a long-lasting scent impression by virtue of perfumed cream and/or perfume.

Many cosmetic series therefore include several products with the same perfume which are to be applied in succession, such as shower gels, deodorant preparations and/or Eau de Toilette.

By contrast, rinse-off preparations involve the care aspect, as is obtained upon rubbing cream in, to a lesser extent.

5 It is generally desirable to provide a preparation which imparts a scent impression both while showering and also afterwards, without applying a second product.

One property of cosmetic products that is very important to the consumer but can only be measured quantitatively with difficulty is their texture and sensorics. The term "texture" is understood as meaning those properties of a cosmetic which can be 10 attributed to the constitution of the preparation, perceived by a sense of feel and touch and optionally expressed in terms of mechanical or rheological flow properties. The texture can be tested in particular by means of sensorics. The texture of cosmetic products, which can optionally be influenced with the help of additives, is of virtually equal importance for the consumer as their effects which can be established 15 objectively.

The term "sensorics" refers to the scientific discipline which deals with evaluating cosmetic preparations on the basis of sensory impressions. The sensory assessment of a cosmetic is made by reference to the visual, olfactory and haptic impression.

20 • Visual impressions: all features that can be perceived by the eye (color, shape, structure).

• Olfactory impressions: all scent impressions that can be perceived upon breathing in air through the nose, which can often be differentiated into initial odor (top note), main scent (heart note, body) and after-scent (fond note, base 25 note). Top note, heart note and base note together form the total odor impression of the perfume. The volatile substances only released upon use also contribute to the olfactory impression.

• Haptic impressions: all sensations of the sense of touch, which relates primarily to constitution and consistency of the product.

30 The sensory analysis makes use of the possibility of ascertaining the overall sensory impression of a product integrally. Disadvantages of sensory analysis are the subjectivity of the impression, the ease with which the test subjects can be influenced

and the considerable scattering of the results caused as a consequence. These weaknesses are nowadays countered by using groups of trained test subjects, mutual shielding of the testers, and statistical evaluation of the mostly extensive analytical data.

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It is an object of the present invention to overcome or ameliorate at least one of the disadvantages of the prior art, or to provide a useful alternative.

In view of the foregoing, it is an object of an especially preferred form of the present invention to provide preparations which besides the criteria customary for cosmetics, such as compatibility, storage stability and the like, may also offer essential, possibly hitherto unknown cosmetic benefits for the consumer. In particular the preparations may be suitable for a use in the body care sector, i.e. for application to the entire body and ideally, at the same time, be sensorily and especially olfactory attractive.

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In principle, the known different application forms, such as shampoo, shower bath, shower gel, deodorant, antiperspirant, leave-on preparations, place different requirements on the perfuming. In the case of a shower bath, the perfume has to smell pleasant under the shower, i.e., at temperatures of up to about 40°C. The temperature stability and evaporation of the perfume ingredients lead to limited selection options. Here, the impact from the mass is the main aim. The particularly long adherence of the scent beyond the showering process was hitherto not required and/or not easily adjustable. This is the case especially since hydrophilic/lipophobic perfume ingredients are rapidly rinsed off with the water and optionally surfactants. In order to achieve a prolonged scent effect, lipophilic perfume ingredients, such as essential oils, would have to be incorporated which are not so rapidly washed off. As is known, however, the lipophilic substances lead to instabilities of the overall preparations since they shift the ratio of emulsifier to lipids and therefore often bring about an oil separation.

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It is an object of another especially preferred form of the present invention to provide a stable product which does not require the presence of emulsifiers therein. This is

particularly difficult in view of the fact that the perfumes employed contain a high percentage of lipophilic components (e.g., more than 30 % by weight).

5 By contrast, in the case of leave-on products with long-lasting scent impression, the challenges faced are quite different. According to experience, particular attention is placed on base note and fond note perfuming to lengthen the scent impression.

10 The perfume ingredients have to emphasize the cosmetic, caring character of the leave-on product. Here, a prolonged endurance of the perfume ingredients on the skin is obligatory and desired.

It is an object of another especially preferred form of the present invention to address some of the various challenges that are imposed on rinse-off and leave-on products.

15 Unless the context clearly requires otherwise, throughout the description and the claims, the words "comprise", "comprising", and the like are to be construed in an inclusive sense as opposed to an exclusive or exhaustive sense; that is to say, in the sense of "including, but not limited to".

20 Although the invention will be described with reference to specific examples it will be appreciated by those skilled in the art that the invention may be embodied in many other forms.

Summary of the Invention

25 According to a first aspect of the present invention there is provided an aqueous cosmetic or dermatological preparation wherein the preparation is substantially emulsifier-free and comprises:

- (i) one or more lipophilic perfume ingredients,
- (ii) one or more lipophobic perfume ingredients,

30 a weight ratio (i) : (ii) being from about 0.5:1 to about 4:1, and at least about 13 % by weight of (iii) microcrystalline wax, based on a total weight of the preparation.

According to a second aspect of the present invention there is provided an aqueous cosmetic or dermatological preparation for application on wet or moist skin, wherein the preparation comprises at least about 50 % by weight of water, is substantially emulsifier-free and surfactant-free and comprises (i) one or more lipophilic perfume ingredients, (ii) one or more lipophobic perfume ingredients, a weight ratio (i) : (ii) being from about 0.5:1 to about 4:1, from about 16 % to about 30 % by weight of (iii) microcrystalline wax, from about 0.2 % to about 1 % by weight of (iv) at least two different polyacrylic acid polymers of which at least one has emulsifying properties and at least one at least one of improves sensory properties of the preparation and increases a stability of the preparation, from about 7 % to about 9 % by weight of (v) at least two different C₁₄₋₂₂ fatty alcohols, and at least about 6 % by weight of (vi) one or more hydrocarbon oils, based on a total weight of the preparation, a weight ratio (iii) : (vi) being from about 1.5:1 to about 2.5:1.

15 According to a third aspect of the present invention there is provided a method of caring for skin, wherein said method comprises applying to said skin a preparation as defined according to the first aspect of the present invention.

The present invention provides an aqueous cosmetic or dermatological preparation which is suitable for application on wet or moist skin. The preparation is substantially emulsifier-free and comprises (i) one or more lipophilic perfume ingredients, (ii) one or more lipophobic perfume ingredients, and at least about 13 % by weight of (iii) microcrystalline wax, based on the total weight of the preparation. Furthermore, the weight ratio (i) : (ii) is from about 0.5:1 to about 4:1, e.g., from 25 about 0.5:1 to about 3:1.

In one form of the preparation, component (i) may comprise one or more of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, 1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-acetonaphthalenone (ISO E Super), 30 hexyl salicylate, dihydromyrcenol, geraniol, methyl dihydrojasmonat (Hedione), isoeugenol, Sandela (CAS No. 70955-71-4), butylphenyl methylpropional, linalyl

acetate, citronellol, amyl salicylate, methylionone, orange oil, bergamot oil, patchouli oil, peppermint oil, rose oil, and lavender oil and/or component (ii) may comprise one or more of dipropylene glycol (DPG), phenylethyl alcohol, cis-3-hexenol, 7-methyl-2H-benzo-1,5-dioxepin-3(4H)-one (Calone 1951), benzyl alcohol, benzyl acetate, 5 benzaldehyde, hydroxycitronellol, hydroxycitronellal, Florosa (4-methyl-2-(2-methylpropyl)tetrahydro-2H-pyran-4-ol), 3,4-methylenedioxy benzaldehyde (piperonal, heliotropine), vanillin, ethylene brassylate, and ethyl linalool.

In another aspect, the preparation may comprise a total of at least about 0.1 % by weight, e.g., at least about 0.2 % by weight, at least about 0.3 % by weight, at least about 0.4 % by weight, or at least about 0.5 % by weight (but usually not more than about 1.5 % by weight, or not more than about 1 % by weight) of components (i) plus (ii), based on the total weight of the preparation.

15 In another aspect of the preparation, the preparation may further comprise (iv) at least two (for example, at least three) different polyacrylic acid polymers and/or (v) at least two (for example, at least three) different C₁₄₋₂₂ fatty alcohols and/or (vi) one or more hydrocarbon oils.

20 In one aspect, the polyacrylic acid polymers (iv) may comprise (e.g., consist of) polymers selected from acrylates/C10-30 alkyl acrylate crosspolymers and carbomers. For example, the preparation may comprise two different acrylates/C10-30 alkyl acrylate crosspolymers (having different properties) and one carbomer. The weight ratio of the two different acrylates/C10-30 alkyl acrylate crosspolymers may, for example, be from about 3:1 to about 1:3, e.g., from about 2:1 to about 1:2, or about 1:1. The weight ratio of the two different acrylates/C10-30 alkyl acrylate crosspolymers (together) to the carbomer may, for example be from about 20:1 to about 5:1, e.g., from about 12:1 to about 8:1, or about 10:1.

In another aspect, the polyacrylic acid polymers of component (iv) may comprise at least one polymer having emulsifying properties and/or at least one polymer which improves the sensory properties and/or increases the stability of the preparation, especially at elevated temperatures.

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In another aspect of the preparation of the present invention, the preparation may comprise a total of from about 0.05 % to about 2 % by weight, e.g., a total of from about 0.2 % to about 1 % by weight, or a total of from about 0.2 to about 0.5 % by weight of component (iv), based on the total weight of the preparation.

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In another aspect, the preparation may comprise a total of from about 3 % to about 14 % by weight, e.g., from about 4 % to about 12 % by weight, or a total of from about 7 % to about 9 % by weight of component (v), based on the total weight of the preparation.

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In another aspect, component (v) may comprise at least one C₁₄ fatty alcohol (C14), at least one C₁₈ fatty alcohol (C18) and at least one C₁₆/C₁₈ fatty alcohol mixture (C16/C18). For example, in the weight ratio of the fatty alcohols C14, C18 and C16/C18, a:b:c, a may range from about 0.5 to about 2, b may range from about 1 to about 3, and c may range from about 2 to about 6. For example, a may be 1, b may be about 2, and c may be about 5.

In another aspect of the preparation, component (v) may comprise at least two (e.g., all) of myristyl alcohol, stearyl alcohol, and cetearyl alcohol.

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In another aspect, the preparation may comprise from about 0.5 % to about 2 % by weight (e.g., from about 1 % to about 2 % by weight) of C₁₄ fatty alcohols, from about 1.5 % to about 3.5 % by weight (e.g., from about 2 % to about 3 % by weight) of C₁₈ fatty alcohols and from about 4 % to about 6 % by weight (e.g., from about 4.5 % to

about 5.5 % by weight) of C₁₆/C₁₈ fatty alcohol mixture, based on the total weight of the preparation.

5 In yet another aspect, the preparation of the present invention may comprise at least about 15 % by weight, e.g., at least about 16 % by weight of component (iii).

In another aspect, the preparation may comprise not more than about 35 % by weight, e.g., not more than about 30 % by weight, or not more than about 25 % by weight of component (iii).

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In a still further aspect, the preparation of the present invention may comprise at least about 5 % by weight, e.g., at least about 7 % by weight of component (vi), based on the total weight of the preparation and/or the weight ratio component (iii) : component (vi) may be from about 3:1 to about 1:1, e.g., about 2:1.

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In another aspect, the preparation may comprise a total of component (iii) plus component (vi) of at least about 20 % by weight, e.g., at least about 22 % by weight, or at least 25 % by weight and not more than about 60 % by weight, e.g., not more than about 40 % by weight, or not more than about 35 % by weight, based on the total weight of the preparation.

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In another aspect of the preparation of the present invention, the preparation may further comprise at least about 45 % by weight, e.g., at least about 50 % by weight, or at least about 55 % by weight, but usually not more than about 70 % by weight, e.g., not more than about 65 % by weight, or not more than about 60 % by weight of water, based on the total weight of the preparation.

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In another aspect of the preparation of the present invention, the preparation may further comprise at least one moisturizer. For example, the at least one moisturizer may comprise glycerol and the preparation may comprise, for example, at least about

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4 % by weight, e.g., at least about 5 % by weight, at least about 10 % by weight, or at least about 15 % by weight of glycerol, based on the total weight of the preparation.

The present invention also provides an aqueous cosmetic or dermatological preparation which is suitable for application on wet or moist skin. The preparation comprises at least about 50 % by weight of water, is substantially emulsifier-free and surfactant-free and comprises (i) one or more lipophilic perfume ingredients, (ii) one or more lipophobic perfume ingredients, from about 16 % to about 30 % by weight of (iii) microcrystalline wax, from about 0.2 % to about 1 % by weight of (iv) at least two different polyacrylic acid polymers of which at least one has emulsifying properties and at least one at least one of improves sensory properties of the preparation and increases a stability of the preparation, from about 7 % to about 9 % by weight of (v) at least two different C₁₄₋₂₂ fatty alcohols, and at least about 6 % by weight of (vi) one or more hydrocarbon oils, based on a total weight of the preparation. Furthermore, the weight ratio (i) : (ii) is from about 0.5:1 to about 4:1 and the weight ratio (iii) : (vi) is from about 1.5:1 to about 2.5:1.

In one aspect, the preparation may comprise a total of at least about 0.5 % by weight of components (i) plus (ii), based on the total weight of the preparation.

In another aspect, the preparation may further comprise at least about 5 % by weight of glycerol, based on the total weight of the preparation.

The present invention also provides a method of caring for skin. The method comprises applying a preparation according to the present invention as set forth above (including the various aspects thereof) to (preferably wet or moist) skin. Preferably the method comprises using the preparation during showering or bathing and/or in combination with water having a temperature of at least about 30 °C and usually not higher than about 40 °C (e.g., not higher than about 35 °C) and/or subsequent to the cleansing of the skin or body.

DETAILED DESCRIPTION OF THE PRESENT INVENTION

The particulars shown herein are by way of example and for purposes of illustrative discussion of the embodiments of the present invention only and are presented in the cause of providing what is believed to be the most useful and readily understood 5 description of the principles and conceptual aspects of the present invention. In this regard, no attempt is made to show structural details of the present invention in more detail than is necessary for the fundamental understanding of the present invention, the description making apparent to those skilled in the art how the several forms of the present invention may be embodied in practice.

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The preparation according to the present invention is substantially free of (conventional) emulsifiers. In this regard, it is pointed out that the term "emulsifier" as used herein and in the appended claims does not include polyacrylic acid polymers having emulsifying properties, which polymers may be comprised in component (iv) 15 of the preparation. On the contrary, a preparation according to the present invention preferably comprises at least one polyacrylic acid polymer that has emulsifying properties. Put another way, besides polyacrylic acid polymer(s), no further emulsifiers are present in the preparation according to the invention in any significant (emulsifying) concentration. It further is pointed out that the term "substantially" in 20 connection with "emulsifier-free" is intended to indicate that the preparation does not contain any emulsifier or combination of emulsifiers in a concentration which would result in a noticeable emulsification. Accordingly, the concentration of emulsifier(s) in the instant preparation, if present at all, will usually be not higher than about 0.02 %, e.g., not higher than 0.01 % or not higher than 0.001 % by weight, based on the total 25 weight of the preparation (not including any polyacrylic acid polymer(s) which may be comprised in component (iv)).

The preparation of the present invention comprises both lipophilic and lipophobic perfume ingredients. The weight ratio of the lipophilic perfume ingredients to the lipophobic ingredients is from about 0.5:1 to about 4:1.

5 It is found that formulating outside of this range produces a different perfume impression of the product. This is then either not recognizable while showering and/or can no longer be perceived after showering. The preparation according to the invention now permits for the first time a long-lasting scent that is easily perceivable by the consumer to be conveyed both upon application under the shower and also
10 afterwards. This is the main difference over known shower preparations which only smell during showering and do not permit a long-term effect of the scent, and normal body creams, the scent impression of which cannot be applied while showering.

Changing the perfume ratio according to the invention results in the effect where

15 a. the scent while showering is sensorily perceptible, but no long-term effect is conveyed;

and/or

b. the scent while showering is not perceptible, but the long-term effect is present;

20 and/or

c. the stability of the preparation is affected.

Examples of preferred lipophilic perfume ingredients for use in the preparation of the present invention include 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-

25 2-naphthyl)ethan-1-one, 1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-acetonaphthalenone (ISO E Super), hexyl salicylate, dihydromyrcenol, geraniol, methyl dihydrojasmonat (Hedione), isoeugenol, Sandela (CAS No. 70955-71-4), butylphenyl methylpropional, linalyl acetate, citronellol, amyl salicylate, methylionone, orange oil, bergamot oil, patchouli oil, peppermint oil, rose oil, and

lavender oil. They can be employed alone or in combination of two, three, four or more lipophilic perfume ingredients.

A lipophilic perfume ingredient is defined herein as a perfume ingredient with a
5 solubility in water of 20 °C of not more than 0.01 mol/L. For example, hexyl salicylate
(CAS No. 6259-76-3) has a solubility in water at 20 °C of about 9 mg/L, and dihydromyrcenol
(CAS No. 18479-58-8) has a solubility in water at 25 °C of about 252 mg/L
(= about 0.0016 mol/L).

10 Examples of preferred lipophobic (hydrophilic) perfume ingredients for use in the
preparation of the present invention include dipropylene glycol (DPG), phenethyl
alcohol, cis-3-hexenol, 7-methyl-2H-benzo-1,5-dioxepin-3(4H)-one (Calone 1951),
benzyl alcohol, benzyl acetate, benzaldehyde, hydroxycitronellol, hydroxycitronellal,
Florosa (4-methyl-2-(2-methylpropyl)tetrahydro-2H-pyran-4-ol), 3,4-methylenedioxy
15 benzaldehyde (piperonal, heliotropine), vanillin, ethylene brassylate, and ethyl
linalool. They can be employed alone or in combination of two, three, four or more
lipophobic perfume ingredients. For example, the lipophobic perfume ingredients may
comprise hexyl salicylate and/or they may comprise or consist of a (A) Iso E Super,
hexyl salicylate, and dihydromyrcenol, or (B) hedione, dihydromyrcenol and
20 methylionone), or (C) geraniol, linalool, and hexyl salicylate. Often the lipophilic
perfume ingredients of the preparation of the present invention will comprise at least
two, and preferably at least three of the compounds set forth above.

A lipophobic perfume ingredient is defined herein as a perfume ingredient with a
25 solubility in water of 20 °C of at least 0.02 mol/L. For example, cis-3-hexenol (CAS
No. 928-96-1) has a solubility in water at 25 °C of about 16000 mg/L, and DPG (CAS
No. 57-55-6) has a solubility in water at 20 °C of about 1,000,000 mg/L. For example,
the lipophobic perfume ingredients may comprise DPG and/or they may comprise or
consist of (D) DPG, Calone 1951, and cis-3-hexenol, or (E) DPG, Florosa, and
30 phenethyl alcohol, or (F) DPG, phenethyl alcohol, and heliotropine. Often the

lipophobic perfume ingredients of the preparation of the present invention will comprise at least two, and preferably at least three of the compounds set forth above.

Often components (i) and (ii) such as, e.g., a combination of any of (A), (B) and (C) with any of (D), (E) and (F), will be present in a total concentration of at least about 0.4 % by weight, e.g., at least about 0.5 % by weight, or at least about 0.6 % by weight, but usually not higher than about 1.5 % by weight, e.g., not higher than about 1.2 % by weight, or not higher than about 1.0 % by weight.

Regarding component (iii) of the preparation of the present invention, microcrystalline wax is a generic term and alternative names therefor include Cera Microcristallina [German: Mikrokristalline Wachse, French: Cire Minerale]. Microcrystalline wax (cera microcristallina) is a type of wax produced by de-oiling petrolatum, as part of the petroleum refining process. In contrast to the more familiar paraffin wax which contains mostly unbranched alkanes, microcrystalline wax contains a higher percentage of isoparaffinic (branched) hydrocarbons and naphthenic hydrocarbons. It exhibits finer crystals than paraffin wax. It predominantly consists of high molecular weight saturated aliphatic hydrocarbons having more than 35 carbon atoms in the molecule. It is generally darker, more viscous, denser, tackier and more elastic than paraffin wax, and has a higher molecular weight and melting point. The elastic and adhesive characteristics of microcrystalline wax are related to the non-straight chain components which it contains. Typical microcrystalline wax crystal structure is small and thin, making it more flexible than paraffin wax. A microcrystalline wax which is suitable for use in the present invention has the CAS No. 63231-60-7 (and or EINECS/EILINCS No. 264-038-1).

Microcrystalline wax when produced by wax refiners is typically produced to meet a number of ASTM specifications such as congeal point, needle penetration, color, and viscosity. Microcrystalline wax can generally be categorized into "laminating" grades and "hardening" grades. The laminating grades typically have a melting point of 140-

175 F and a needle penetration of 25 or above. The melting point of hardening grades will usually range from about 175-200 F, and the needle penetration thereof will usually be 25 or below. Both grades are suitable for use in the present invention.

Microcrystalline wax is derived from the refining of the heavy distillates from lubricant oil production. This by-product then must be de-oiled at a wax refinery. Depending on the end use and desired specification, the product then may have its odor removed and color removed. This is usually done by means of a filtration method or by hydro-treating the wax material.

Microcrystalline wax for use in the instant invention will usually be subject to high 5 quality standards. The microcrystalline wax for use in the instant invention usually will be substantially free from, for example, polycyclic aromatics, sulfur-containing compounds and other allergens such as, e.g., crop protection agents. Due to its chemical neutrality microcrystalline wax has no allergenic potential. Allergenic reactions triggered by microcrystalline wax are hitherto unknown. Compared to 10 animal or plant oils, microcrystalline wax has a high oxidation stability, i.e., does not become rancid and requires no additional stabilizers. Microcrystalline wax and thus, also the preparations containing it therefore also require no or relatively small amounts of additional preservatives.

15 The skin care properties of microcrystalline wax are primarily in the area of skin moisturization. Microcrystalline wax forms a partially occlusive protective film on the skin which protects it against drying out. This is very important particularly in the case of dry skin or highly stressed skin with a damaged skin barrier. Partially occlusive care products position themselves in the upper horny layer and thereby reduce the 20 transepidermal water loss. In combination with skin moisturizers (e.g., glycerol), they help to rapidly restore the equilibrium of the skin. It is noted that very similar substance mixtures, the so-called mineral waxes, are naturally present in relatively large amounts also in various plant waxes (e.g. candelilla wax) and insect waxes (e.g. beeswax).

Microcrystalline wax is present in the preparation of the present invention in a concentration of at least about 13 % by weight, e.g., at least about 14 % by weight, at least about 15 % by weight, or at least about 16 % by weight, and will usually be present in a concentration of not higher than about 40 % by weight, e.g., not higher 5 than about 35 % by weight, not higher than about 30 % by weight, or not higher than about 25 % by weight.

The preparation according to the present invention may be used as a two-in-one product under the shower and combines, in addition to the showering, at the same time 10 the rubbing in of cream.

It was found that microcrystalline wax in the preparation according to the invention attaches to the skin during the showering process. A pleasant skin feel by the user is thus achieved. The lipophilic constituents of the perfume are bound particularly well 15 and thus ensure a particularly long scent impression.

Due to this binding of perfume by microcrystalline wax, besides the short-term scent impression during showering, a long-term scent impression is also ensured.

20 It was found that only with an amount of at least about 13 % by weight of microcrystalline wax a long-lasting and detectably, sensorily attractive film on the skin which is necessary for the binding of perfume can be achieved.

25 At higher fractions, in particular above about 35 % by weight, the texture can no longer readily be spread and it is cream-like. The higher the concentration of microcrystalline wax, the higher the consistency or solidity as well, although this may be desired in individual preparations.

30 The fraction of microcrystalline wax is therefore advantageously chosen to be at most about 35 % by weight, in particular at most 30 % by weight, based on the total weight

of the preparation. If component (vi) is present as well (which is preferred), the total concentration of components (iii) plus (vi) will usually not be higher than about 60 % by weight, e.g., not higher than about 45 % by weight, not higher than about 40 % by weight, or not higher than about 35 % by weight.

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The preparation according to the invention permits for the first time the application of care under the shower.

The preparation of the present invention preferably also comprises at least two (e.g., 10 two, three, four or more, preferably at least three) different polyacrylic acid polymers, i.e., polyacrylic acid polymers which differ from each other with respect at least one of their properties.

The term “polyacrylic acid polymers” as used herein and in the appended claims denotes the polymers of acrylic acid and/or methacrylic acid as well as acrylate 15 crosspolymers known in cosmetics. Preferably they include polymers (macromolecules) with a high molecular weight ($> 1 \text{ Mg/mol}$) which comprise a backbone of polyacrylic acid and small amounts of polyalkenyl ether crosslinkages. They are also referred to as carbomers. Carbomers are divided for example into types A, B and C. They differ, for example, in forming gels with different viscosities 20 (United States Pharmacopoeia, USP). These water-soluble or dispersible polymers can bring about a significant viscosity increase in the liquid in which they are dissolved or dispersed. This is brought about by the formation of carbomer microgels in the water.

Other preferred polyacrylic acid polymers for use in the present invention include 25 acrylate crosspolymers which exert a polymeric emulsifier effect. Polymeric emulsifiers are primarily polyacrylic acid polymers with a high molecular weight. These emulsifying polyacrylic acid polymers comprise a small lipophilic fraction in addition to the hydrophilic main part. Preferred within the context of the present invention are acrylate crosspolymers having the INCI name “Acrylates/C10-30 Alkyl

Acrylate Crosspolymer". Representatives thereof are available, for example, under the trade names Pemulen® TR-1 and Pemulen® TR-2 and also Carbopol® 1342, Carbopol® 1382 and Carbopol® ETD 2020 from NOVEON. Preferred acrylates/C10-30 alkyl acrylate crosspolymers for use in the present invention include Pemulen® 5 TR-1 and Carbopol® 3128 from Lubrizol.

A preferred combination of polyacrylic acid polymers for use in the present invention includes a polyacrylic acid polymer with emulsifying effect, such as Pemulen® TR-1 combined with other polyacrylic acid polymers, such as Carbopol® 3128, which 10 improve the sensory properties and ensure the stability of the preparation (especially at elevated temperatures) and the combination with free water.

Particular preference is given to a combination of (at least) three polyacrylic acid polymers, i.e., (a) (at least) one polyacrylic acid polymer having an emulsifying effect, 15 such as e.g. Pemulen® TR-1 or Pemulen® TR-2, combined with (b) (at least) one polyacrylic acid polymer which improves the sensory properties and ensures the stability of the preparation, especially at elevated temperatures (e.g. Carbopol® 3128) and (c) (at least) one polyacrylic acid polymer which improves the sensory properties upon absorbing free water (e.g. Carbopol® 981). Merely by way of example, 20 component (iv) of the preparation according to the present invention may comprise a total of from about 0.05 % to 1 % by weight, e.g., of from about 0.09 % to about 0.25 % by weight of (a) plus (b) (e.g., in a weight ratio of from about 2:1 to about 1:2 such as about 1:1) and from about 0.05 % to about 1 % by weight, e.g., from about 0.01 % to about 0.03 % by weight, of (c). For example, the preparation may comprise a 25 combination of (1) from about 0.08 % to about 0.15 % by weight of Pemulen® TR-1 (and/or Pemulen® TR-2), (2) from about 0.08 % to about 0.15 % by weight of Carbopol® 3128, and (3) from about 0.01 % to about 0.03 % by weight of Carbopol® 981.

Component (iv) will usually be present in the preparation of the present invention, if at all, in a (total) concentration of at least about 0.05 % by weight, e.g., at least about 0.1 % by weight, at least about 0.15 % by weight, or at least about 0.2 % by weight, but usually not higher than about 1 % by weight, e.g., not higher than about 0.5 % by weight, not higher than about 0.3 % by weight, or not higher than about 0.25 % by weight.

The polyacrylic acid polymers of component (iv) may also differ in the viscosities they provide. For example, when measured in a 0.2 % by weight solution at 25 °C with a Brookfield RVT or RVF at 20 rpm with a spindle No. 5, Pemulen® TR-1 shows a minimum/maximum emulsion viscosity of 6,500/15,500 mPas, whereas the corresponding values for Carbopol® 1342 are 4,000/11,000 mPas.

Regarding optional, but preferably present component (v) of the preparation of the present invention, C₁₄₋₂₂ fatty alcohols denote fatty alcohols having a carbon number from 14 to 22, e.g., 14, 16, 18, 20 or 22 carbon atoms. Preferably, the fatty alcohols are selected from linear (saturated) fatty alcohols and in particular, from one or more of myristyl alcohol (C₁₄H₃₀O), cetyl alcohol (or palmityl alcohol) (C₁₆H₃₄O), stearyl alcohol (or octadecyl alcohol) (C₁₈H₃₈O), and cetylstearyl alcohol (cetearyl alcohol), a mixture of predominantly cetyl alcohol (hexadecanol) and stearyl alcohol (octadecanol), (CAS No. 8005-44-5).

The preparation advantageously comprises at least three C₁₄₋₂₂ fatty alcohols and in particular, at least one C₁₄ fatty alcohol (C14), at least one C₁₈ fatty alcohol (C18) and at least one C₁₆/C₁₈ fatty alcohol mixture (C16/C18) is present, preferably in each case only one C₁₄ fatty alcohol, one C₁₈ fatty alcohol and one C₁₆/C₁₈ fatty alcohol mixture. If only two fatty alcohols are to be employed, the C₁₄ fatty alcohol is preferably absent.

Usually the C₁₄₋₂₂ fatty alcohols will be present in the preparation of the present invention, if at all, in a total concentration of at least about 3 % by weight, e.g., at least about 4 % by weight, at least about 5 % by weight, at least about 6 % by weight, or at least about 7 % by weight, but not higher than about 14 % by weight, e.g., not higher than about 13 % by weight, not higher than about 12 % by weight, not higher than about 11 % by weight, not higher than about 10 % by weight, or not higher than about 9 % by weight, based on the total weight of the preparation.

The weight percentages of the fatty alcohols will often be from about 0.5 % to about 2.5 % by weight for C14 fatty alcohol(s) (C14), from about 1.5 % to about 4.0 % by weight for C18 fatty alcohol(s) (C18) and from about 3.5 % to about 6 % by weight for C16/C18 fatty alcohols (C16/18), based on the total weight of the preparation. For example, the fatty alcohols optionally contained in the preparation of the present invention may comprise or consist of (1) from about 0.5 % to about 2.0 % by weight of myristyl alcohol, (2) from about 1.5 % to about 3.5 % by weight of stearyl alcohol, and (3) from about 3.5 % to about 6 % by weight of cetearyl alcohol. Component (1) may optionally be absent.

The combination of at least two polyacrylic acid polymers and at least two C₁₄₋₂₂ fatty alcohols aids in the stabilization of the preparation of the present invention. If in each case only one representative of the polyacrylic acids and fatty alcohols is selected, the stability tends to be inadequate and in particular the skin feel upon application to moist/wet skin tends to be unpleasant, waxy, harsh, squeaky.

In addition to components (i) to (v), the preparation of the instant invention preferably also comprises component (vi), i.e., one or more hydrocarbon oils. A preferred hydrocarbon oil for use in the instant invention includes medical white oil, also called paraffinum liquidum. Medical white oils are substance mixtures which have a varying composition depending on origin. For example, products which have been obtained from geologically old Venezuelan petroleum are particularly rich in naphthenes

(cycloalkanes). By contrast, the geologically young North Sea oil is low in naphthenes and comprises predominantly acyclic compounds.

Naphthene-rich mineral oils only occur in selected areas of the world (Venezuela, 5 Saudi Arabia, Russia). They are difficult to obtain and accordingly expensive. Low-naphthene mineral oils are easier to obtain and are rather to be classed as good value. A disadvantage of the low-naphthene mineral oils is that these oils or mixtures with these oils with, *inter alia*, microcrystalline wax used in emulsions destabilize the emulsions, which results in a severe oil separation.

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Naphthenes or alicyclic hydrocarbons are ring-shaped hydrocarbons. The naphthene content of crude oil is generally 5 %, in the case of Russian oil it is often more than this, and in the case of American oil below this. Naphthenes have a higher bond tension than paraffins in the molecular structure and therefore have a higher heating 15 value.

20

Cycloalkanes (cycloparaffins) are saturated ring-shaped hydrocarbons of the general formula C_nH_{2n} ($n = 3, 4, 5 \dots$), the names of which are formed from that of the corresponding alkane and the prefix cyclo-. The cycloalkanes, *inter alia*, cyclopentane and cyclohexane, occurring in petroleum are also called naphthenes. Preferably, naphthene-containing medical white oil is used in the preparation of the instant invention.

25

Component (vi) will usually be present in the preparation of the present invention, if at all, in a concentration of at least about 5 % by weight, e.g., at least about 6 % by weight, at least about 7 % by weight, or at least about 8 % by weight. Further, the total concentration of components (iii) plus (vi) will often be at least about 20 % by weight, e.g., at least about 22 % by weight, or at least about 25 % by weight, but will usually be not higher than about 60 % by weight, e.g., not higher than about 50 % by weight, 30 not higher than about 40 % by weight, or not higher than about 35 % by weight, based

on the total weight of the preparation. The weight ratio component (iii) : component (vi) preferably is from about 3:1 to about 1:1, e.g., from about 1.5:1 to about 2.5:1.

In many cases a long-lasting and detectable, sensorily attractive film will be obtained on the skin only when the combined concentration of components (iii) plus (vi) is at least about 20 % by weight. At total concentrations above about 60 % by weight the preparation often can no longer be easily spread and becomes cream-like. The higher the total concentration of (iii) plus (vi), the higher the consistency and/or solidity as well, although this may be desired in specific preparations.

10 In this regard, it is noted that mixtures of components (iii) and (vi) are sometimes also referred to as "microcrystalline wax", "cera microcristallina" or "vaseline" (now a registered trade name of CheseBorough Ponds). However, as used herein and in the appended claims the term "microcrystalline wax" denotes exclusively component (iii), i.e., without component (vi).

15 The preparation according to the present invention is preferably also substantially free of surfactants. In other words, one or more surfactants are preferably present, if at all, in a concentration which does not noticeably reduce the surface tension. Usually, total concentrations of surfactants, if present at all, in the preparation of the present invention will not be higher than about 0.02 %, e.g., not higher than 0.01 %, or not higher than about 0.001 % by weight, based on the total weight of the preparation.

20 Surfactants are substances which lower the surface tension of a liquid or the interfacial tension between two phases and permit or support the formation of dispersions.

25 Surfactants enable two liquids that are actually not miscible with one another, such as, for example, oil and water, to be dispersed.

Furthermore, surfactants are described as amphiphilic substances which are able to dissolve organic, nonpolar substances in water. As a result of their specific molecular

structure with at least one hydrophilic and one hydrophobic molecular moiety, they provide for a reduction in the surface tension of the water, the wetting of the skin, the facilitation of soil removal and dissolution, ease of rinsing off and – if desired – for foam regulation.

5

The hydrophilic moieties of a surfactant molecule are mostly polar functional groups, for example $-\text{COO}^-$, $-\text{OSO}_3^{2-}$, $-\text{SO}_3^-$, whereas the hydrophobic moieties are generally nonpolar hydrocarbon radicals. Surfactants are generally classified according to type and charge of the hydrophilic molecular moiety. In this connection, four groups can be

10 differentiated:

- anionic surfactants,
- cationic surfactants,
- amphoteric surfactants and
- nonionic surfactants.

15

Anionic surfactants generally have carboxylate, sulfate or sulfonate groups as functional groups. In an aqueous solution, they form negatively charged organic ions in an acidic or neutral medium. Cationic surfactants are almost exclusively characterized by the presence of a quaternary ammonium group. In an aqueous solution, they form positively charged organic ions in an acidic or neutral medium. Amphoteric surfactants contain both anionic and cationic groups and accordingly behave like anionic or cationic surfactants in aqueous solution depending on the pH. In a strongly acidic medium, they have a positive charge, and in an alkaline medium they have a negative charge.

20

Furthermore, detergent substances are known, such as, for example, cationic surfactants, in particular quaternary ammonium compounds. A detergent substance is used in laundry detergents, dishwashing detergents, shampoos, shower gels and refers to the fraction of the formulation which influences the washing or cleaning

performance. Detergent substances increase the “solubility” of fat and dirt particles in water which adhere in the laundry or on the body. They can be of natural or synthetic origin. They are differentiated into anionic, cationic, ampholytic or nonionic depending on the nature of their charge.

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Emulsifiers enable two immiscible liquids (for example oil in water) to be combined to give an emulsion. Due to their amphiphilic character, they penetrate into the oil with their fat-soluble moiety. As a result of the hydrophilic moiety, the oil droplet that is now formed by stirring can be dispersed in the aqueous environment. Emulsifiers
10 have primarily no detergent, surface tension lowering character.

Preferred preparations according to the present invention include a preparation which comprises, based on the total weight of the preparation:

- from about 14 % to about 18 % by weight of microcrystalline wax;
- 15 - from about 6 % to about 10 % by weight of medical white oil (paraffinum liquidum);
- from about 0.01 % to about 0.03 % by weight of (at least) one polyacrylic acid polymer A which improves the sensory properties upon absorbing free water (e.g. Carbopol® 981);
- 20 - from about 0.07 % to about 0.12 % by weight of (at least) one polyacrylic acid polymer B having an emulsifying effect, (e.g. Pemulen® TR-1 and/or Pemulen® TR-2);
- from about 0.07 % to about 0.12 % by weight of (at least) one polyacrylic acid polymer C which improves the sensory properties and ensures the stability of
25 the preparation, especially at elevated temperatures (e.g. Carbopol® 3128);
- from about 0.7 % to about 1.2 % by weight of myristyl alcohol;
- from about 1.5 % to about 2.5 % by weight of stearyl alcohol;
- from about 4.5 % to about 5.5 % by weight of cetearyl alcohol; and
- a total of from about 0.5 % to about 1.2 % by weight of perfume ingredients (i)
30 plus (ii) set forth above.

Polyacrylic acid polymer C and/or myristyl alcohol may optionally be absent from the above preparation. In this case the concentration of polyacrylic acid polymer B may be up to about 0.15 % by weight and/or the concentration of stearyl alcohol may be up to about 3.5 % by weight.

5

The preparation according to the present invention may also comprise cosmetic auxiliaries and further active ingredients as are customarily used in cosmetic preparations such as, e.g., dyes and coloring pigments, moisturizing and/or humectant substances (such as, e.g., glycerol, urea, and certain amino acids), fillers (such as, e.g., 10 aluminum starch octenylsuccinate), foam stabilizers, UV filter substances, electrolytes (e.g., sea salt), and organic solvents, provided they do not adversely affect the desired properties of the preparation.

The preparation according to the invention is advantageously formulated only with 15 preservatives which have a solubility in water of more than 0.75 % at 20 °C. Due to the substantial absence of emulsifiers, the result may otherwise be destabilizations and crystallizing out. Preferably, the one or more preservatives include at least phenoxyethanol (solubility in water at 20 °C about 2.4 % by weight); preferably, they will not include methylisothiazolinone and/or parabens such as methyl paraben.

20

The preparation of the present invention may moreover comprise one or more active ingredients which have a positive influence on skin. Active ingredients for use in the present invention preferably exhibit a skin moisturizing effect and/or strengthen the barrier function of skin and/or promote the restructuring of the connective tissue 25 and/or support the function of dry skin and/or positively influence irritated skin (both sensitive skin in general and skin irritated by noxae such as UV light or chemicals) and/or reduce wrinkles and/or protect esthetically unattractive skin such as aged skin and/or improve the appearance of dry or rough skin and/or reduce hyperpigmentation, hypopigmentation, defective pigmentation and/or age spots and/or reduce itching 30 and/or visible blood vessel dilation such as teleangiektasis or cuperosis.

Non-limiting specific examples of active ingredients which may be comprised in the preparation of the present invention include bioquinones such as, e.g., ubiquinone Q10, isoflavone and isoflavonoids as well as isoflavonoid containing plant extracts such as soy and clover extracts, flavonoids, genistein, arctiin, cardiolipin, anti-freezing 5 proteins, hop extracts, hop-malt extracts, ascorbic acid and derivatives thereof, tocopherol and esters thereof, biotin, creatine, creatinine, propionic acid, green tea extracts or solutions, white tea extracts or solutions, sericosides, various extracts of licorice root, licochalcone A, silymarin, silyphos, dexamphenol, ethanol, inhibitors of the prostaglandin metabolism and in particular, cyclooxygenase inhibitors, inhibitors 10 of the leucotriene metabolism and in particular, 5-lipoxygenase inhibitors, inhibitors of the 5-lipoxygenase inhibitor protein, FLAP, folic acid, phytoene, flavone glycosides such as, e.g., α -glucosylrutin, carnitine, polydocanol, carotenoids, taurine, dihydroxyacetone, 8-hexadecene-1,16 dicarboxylic acid, retinol and esters thereof, vitamin E and derivatives thereof, long chain hyaluronic acids (e.g., those having an 15 average molecular weight of from 1 to 3 million Dalton), and short chain hyaluronic acids (e.g., those having an average molecular weight of from 5,000 to 1 million Dalton).

20 The one or more active ingredients, if present, will usually be present in a total concentration of from about 0.1 % to about 30 % by weight, based on the total weight of the preparation.

25 It has surprisingly been found that the preparation of the present invention can increase the availability of certain components contained therein. In other words, the same effect is achieved with a lower amount of component. This is a significant advantage for the consumer because many components such as, e.g., perfume oils contain constituents which can trigger allergic reactions and the like. Thus, reducing the concentration of these components without reducing their effect (e.g., the same 30 scent impression with lower concentrations of perfume constituents) is also an advantage with respect to mildness and tolerability of the preparation.

The viscosity of a preparation of the present invention will usually be not lower than about 1,000 mPas, e.g., not lower than about 2,000 mPas, not lower than about 3,000 mPas, or not lower than about 3,500 mPas, but usually not higher than about 10,000 mPas, e.g., not higher than about 8,000 mPas, not higher than about 7,000 mPas, not 5 higher than about 6,000 mPas, or not higher than about 5,500 mPas, as measured at 25 °C 24 hours after preparing the preparation by means of a rotational rheometer such as, e.g., the apparatus Rheomat R 123 of proRheo GmbH, Germany (spindle No. 1).

10 The preparation of the present invention may particularly advantageously be used on wet or moist skin (and also for (wet) shaving). In particular, the preparation may be used while showering or bathing and following the cleansing of the skin/body. Following the application of the preparation rinsing with water and drying the skin with, e.g., a towel are all that is needed for obtaining the skin care effect of the preparation. Parts of the preparation are left behind on the skin in a manner similar to 15 applying a cream onto the skin. In other words, the preparation may be used as a balm similar to the use of a hair conditioner after cleansing the hair.

20 The preparation of the present invention may be provided in any container which is suitable for cosmetic or dermatological compositions. For example, it may be placed in a (plastic) bottle, e.g., a bottle that is to be stored upside down.

The examples below illustrate the preparation according to the invention. The numerical values represent percent by weight, based on the total weight of the preparation.

Examples

Example No.	1	2	3	4	5
Mixture of microcrystalline wax (66) and medical white oil (34) (concentration of microcrystalline wax)	25.000 (16.5)	25.000 (16.5)	25.000 (16.5)	35.000 (23.1)	45.000 (29.7)
Myristyl alcohol	1.0000	1.0000	1.0000	2.0000	2.0000
Cetearyl alcohol	5.0000	5.0000	5.0000	4.0000	4.0000
Stearyl alcohol	2.0000	2.0000	2.0000	3.0000	3.0000
Hydrogenated cocoglycerides	3.0000	3.0000	3.0000	2.0000	2.0000
Almond oil			0.3500		0.7000
Aluminum starch octenylsuccinate	1.0000	1.0000	1.0000	1.0000	1.0000
Perfume A*	0.8000			0.7000	
Perfume B**		0.7000			0.6000
Perfume C***			1.0000		
Glycerol	5.1000	5.1000	5.1000	15.100	10.100
Sodium hydroxide solution (45% strength)	0.1600	0.1600	0.1600	0.1600	0.1600
Phenoxyethanol	0.5000	0.5000	0.5000	0.4000	0.4000
Methylisothiazolinones	0.0900	0.0900	0.0900	0.0800	0.0800
Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.1000	0.1000	0.1000	0.1200	0.1200

(Carbopol® 3128)					
Carbomer (Carbopol® 981)	0.0200	0.0200	0.0200	0.0200	0.0200
Acrylates/C10-30 Alkyl Acrylate Crosspolymer (Pemulen® TR-1)	0.1000	0.1000	0.1000	0.1200	0.1200
Water	ad 100				
Sea salt	0.0100	0.0100		0.0100	0.0500

A* ratio of lipophilic perfume constituents (Iso E Super, hexyl salicylate, dihydromyrcenol) to lipophobic perfume constituents (DPG, Calone 1951, cis-3-hexenol) about 3:1.

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B** ratio of lipophilic perfume constituents (hedione, dihydromyrcenol, methylionone) to lipophobic perfume constituents (DPG, Florosa, phenethyl alcohol) about 0.5:1.

10 C*** ratio of lipophilic perfume constituents (geraniol, linalool, hexyl salicylate) to lipophobic perfume constituents (DPG, phenethyl alcohol, heliotropine) about 0.5:1.

It is noted that the foregoing examples have been provided merely for the purpose of explanation and are in no way to be construed as limiting of the present invention.

15 While the present invention has been described with reference to an exemplary embodiment, it is understood that the words which have been used herein are words of description and illustration, rather than words of limitation. Changes may be made, within the purview of the appended claims, as presently stated and as amended, without departing from the scope and spirit of the present invention in its aspects.

20 Although the present invention has been described herein with reference to particular

3321-P50023

means, materials and embodiments, the present invention is not intended to be limited to the particulars disclosed herein; rather, the present invention extends to all functionally equivalent structures, methods and uses, such as are within the scope of the appended claims.

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The entire disclosure of copending application entitled “COSMETIC OR DERMATOLOGICAL PREPARATION FOR APPLICATION ON WET SKIN”, filed concurrently herewith (Attorney Docket: 3321-P50022), is expressly incorporated by reference herein.

10

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:-

1. An aqueous cosmetic or dermatological preparation wherein the preparation is substantially emulsifier-free and comprises:
 - 5 (i) one or more lipophilic perfume ingredients,
 - (ii) one or more lipophobic perfume ingredients,
 - a weight ratio (i) : (ii) being from about 0.5:1 to about 4:1, and
 - at least about 13 % by weight of (iii) microcrystalline wax, based on a total weight of the preparation.
- 10 2. A preparation according to claim 1, wherein (i) comprises one or more of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, 1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-acetonaphthalenone (ISO E Super), hexyl salicylate, dihydromyrcenol, geraniol, methyl dihydrojasmonat (Hedione), isoeugenol, Sandela (CAS No. 70955-71-4), butylphenyl methylpropional, linalyl acetate, citronellol, amyl salicylate, methylionone, orange oil, bergamot oil, patchouli oil, peppermint oil, rose oil, and lavender oil.
- 15 20 3. A preparation according to claim 1 or claim 2, wherein (ii) comprises one or more of dipropylene glycol (DPG), phenylethyl alcohol, cis-3-hexenol, 7-methyl-2H-benzo-1,5-dioxepin-3(4H)-one (Calone 1951), benzyl alcohol, benzyl acetate, benzaldehyde, hydroxycitronellol, hydroxycitronellal, Florosa (4-methyl-2-(2-methylpropyl)tetrahydro-2H-pyran-4-ol), 3,4-methylenedioxy benzaldehyde (piperonal, heliotropine), vanillin, ethylene brassylate, and ethyl linalool.
- 25 30 4. A preparation according to any one of the preceding claims, wherein the preparation comprises a total of at least about 0.1 % by weight of (i) plus (ii), based on the total weight of the preparation.

5. A preparation according to any one of the preceding claims, wherein the preparation further comprises (iv) at least two different polyacrylic acid polymers.
- 10 6. A preparation according to claim 5, wherein the polyacrylic acid polymers (iv) are selected from acrylates/C10-30 alkyl acrylate crosspolymers and carbomers.
7. A preparation according to claim 5, wherein the polyacrylic acid polymers (iv) comprise at least one polymer having emulsifying properties.
- 15 8. A preparation according to claim 5, wherein the polyacrylic acid polymers (iv) comprise at least one polymer which at least one of improves sensory properties of the preparation and increases a stability of the preparation.
9. A preparation according to claim 5, wherein the preparation comprises a total of from about 0.05 % to about 2 % by weight of (iv), based on the total weight of the preparation.
- 20 10. A preparation according to any one of the preceding claims, wherein the preparation further comprises (v) at least two C₁₄₋₂₂ fatty alcohols.
11. A preparation according to claim 10, wherein the preparation comprises a total of from about 3 % to about 14 % by weight of (v), based on the total weight of the preparation.
- 25 12. A preparation according to claim 10, wherein (v) comprises at least one C₁₄ fatty alcohol (C14), at least one C₁₈ fatty alcohol (C18) and at least one C₁₆/C₁₈ fatty alcohol mixture (C16/C18).
- 30 13. A preparation according to claim 12, wherein a weight ratio of the fatty alcohols C14, C18 and C16/18 is a:b:c, with a ranging from about 0.5 to

about 2, b ranging from about 1 to about 3, and c ranging from about 2 to about 6.

14. A preparation according to claim 10, wherein (v) comprises at least two of
5 myristyl alcohol, stearyl alcohol, and cetearyl alcohol.
15. A preparation according to any one of the preceding claims, wherein the preparation comprises at least about 15 % by weight of (iii).
- 10 16. A preparation according to any one of the preceding claims, wherein the preparation further comprises (vi) one or more hydrocarbon oils.
- 15 17. A preparation according to claim 16, wherein the preparation comprises at least about 5 % by weight of (vi), based on the total weight of the preparation.
18. A preparation according to claim 16, wherein a weight ratio (iii) : (vi) is from about 3:1 to about 1:1.
- 20 19. A preparation according to claim 16, wherein the preparation comprises a total of (iii) plus (vi) of from about 20 % to about 60 % by weight, based on the total weight of the preparation.
- 25 20. A preparation according to any one of the preceding claims, wherein the preparation comprises at least about 45 % by weight of water, based on the total weight of the preparation.
21. A preparation according to any one of the preceding claims, wherein the preparation further comprises at least one moisturizer.

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22. A preparation according to claim 21, wherein the preparation comprises at least about 4 % by weight of glycerol, based on the total weight of the preparation.

5 23. An aqueous cosmetic or dermatological preparation for application on wet or moist skin, wherein the preparation comprises at least about 50 % by weight of water, is substantially emulsifier-free and surfactant-free and comprises (i) one or more lipophilic perfume ingredients, (ii) one or more lipophobic perfume ingredients, a weight ratio (i) : (ii) being from about 0.5:1 to about 4:1, from about 16 % to about 30 % by weight of (iii) microcrystalline wax, from about 0.2 % to about 1 % by weight of (iv) at least two different polyacrylic acid polymers of which at least one has emulsifying properties and at least one at least one of improves sensory properties of the preparation and increases a stability of the preparation, from about 7 % to about 9 % by weight of (v) at least two different C₁₄₋₂₂ fatty alcohols, and at least about 6 % by weight of (vi) one or more hydrocarbon oils, based on a total weight of the preparation, a weight ratio (iii) : (vi) being from about 1.5:1 to about 2.5:1.

10 15 20 24. A preparation according to claim 23, wherein (i) comprises one or more of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, 1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-acetonaphthalenone (ISO E Super), hexyl salicylate, dihydromyrcenol, geraniol, methyl dihydrojasmonat (Hedione), isoeugenol, Sandela (CAS No. 70955-71-4), butylphenyl methylpropional, linalyl acetate, citronellol, amyl salicylate, methylionone orange oil, bergamot oil, patchouli oil, peppermint oil, rose oil, and lavender oil and (ii) comprises one or more of dipropylene glycol (DPG), phenylethyl alcohol, cis-3-hexenol, 7-methyl-2H-benzo-1,5-dioxepin-3(4H)-one (Calone 1951), benzyl alcohol, benzyl acetate, benzaldehyde, hydroxycitronellol, hydroxycitronellal, Florosa (4-methyl-2-(2-methylpropyl)tetrahydro-2H-pyran-4-ol), 3,4-methylenedioxy

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benzaldehyde (piperonal, heliotropine), vanillin, ethylene brassylate, and ethyl linalool.

25. A preparation according to claim 23 or claim 24, wherein the preparation comprises a total of at least about 0.5 % by weight of (i) plus (ii), based on the total weight of the preparation.
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10. A preparation according to any one of claims 23 to 25, wherein the preparation further comprises at least about 5 % by weight of glycerol, based on the total weight of the preparation.
15. A method of caring for skin, wherein said method comprises applying to said skin a preparation as defined according to any one of claims 1 to 22.
20. A method according to claim 27, wherein the skin is wet or moist.
25. A method according to claim 27 or claim 28, wherein the preparation is applied during bathing or under the shower.
30. A method according to any one of claims 27 to 29, wherein the preparation is applied subsequent to a cleansing of the skin.

25 Dated this 18th day of July 2013

Shelston IP

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