the case that emulsions are formed and changing the balance of ingredients can cause these to breakdown.

Hair care compositions typically contain a number of ingredients and each time a component is mixed into the composition a new process step has to be developed. Complex formulation processes are undesirable as these significantly increase the costs associated with production. It is therefore beneficial to include as few components as possible when formulating hair care products. As such components which contain multiple ingredients in a stable form are highly advantageous. It is also desirable that components for inclusion in hair care formulations do not contain excessive levels of water as this would then need to be removed, at a different point in the process.

Summary of Invention

The present inventors have developed a concentrated multiple ingredient composition for use in formulating hair care products.

In one aspect of the present disclosure, there is provided a concentrate composition comprising a) at least 0.1 wt% of a surfactant compound; and b) at least 10 wt% one or more ingredients selected from aldehydes, succinimidyl esters, chelating agents and amine salts of carboxylic acids; wherein component (b) comprises an aldehyde and an amine salt of a carboxylic acid.

In another aspect of the disclosure, there is provided a formulated composition, comprising a concentrate composition described herein and one or more further components.

In yet another aspect of the disclosure, there is provided a method of preparing a formulated composition, the method comprising admixing a concentrate composition as defined herein, with one or more further components.

In a further aspect of the disclosure, there is provided a use of a composition as described herein to combat colour loss from a dyed material.

Detailed Description of the Invention

According to a first aspect of the present invention there is provided a concentrate composition comprising:

(a) at least 0.1 wt% of surfactant compound; and

(b) at least 10 wt% of one or more further ingredients selected from aldehydes, succinimidyl esters, chelating agents and amine salts of a carboxylic acids.

The concentrate composition of the present invention comprises (a) a surfactant compound and one or more further ingredients (b). For the avoidance of doubt, the surfactant compound (a) is separate to and present in addition to the ingredients of component (b), which in some cases may have surface-active properties.

Component (a) comprises a surfactant compound. Any suitable surfactant compound may be used. The surfactant compound may be selected from anionic, cationic, nonionic and amphoteric surfactants. Suitable surfactants of these types will be known to the person skilled in the art.

Preferably component (a) is selected from anionic and amphoteric surfactants.

Suitable anionic surfactants for use in the composition of the present invention include salts of C_{12} to C_{18} carboxylic acids, ethoxylated carboxylic acids, ester carboxylates and ethoxylated ester carboxylates and sarcosinates. Other suitable anionic surfactants include sulfates and sulfonates, for example alkyl sulfates, alkyl ether sulfates, alcohol sulfates, alcohol ether sulfates, α-olefin sulfonates, linear alkyl sulfonates; and phosphate esters.

Claims

1. A concentrate composition comprising:

   (a) at least 0.1 wt% of a surfactant compound; and

   (b) at least 10 wt% one or more ingredients selected from aldehydes, succinimidyl esters, chelating agents and amine salts of carboxylic acids; wherein component (b) comprises an aldehyde and an amine salt of a carboxylic acid.

2. A concentrate composition according to claim 1 wherein the aldehyde is selected from α-substituted aldehydes and/or hydroxy-substituted aldehydes.

3. A concentrate composition according to claim 2 wherein the aldehyde is 2-hydroxyoctanal.

4. A concentrate composition according to any preceding claim wherein component (b) comprises a chelating agent, preferably a polycarboxylic acid derived chelating agent.

5. A concentrate composition according to claim 4 wherein the chelating agent is glutamic acid N,N-diacetic acid (GLDA) and/or diethylene triamine pentaacetic acid (DTPA).

6. A concentrate composition according to any preceding claim wherein component (b) comprises a salt of a monocarboxylic acid and a secondary or tertiary amine.

7. A concentrate composition according to claim 6 wherein component (b) comprises the triethanolamine salt of octanoic acid.

8. A concentrate composition according to any preceding claim wherein component (a) is selected from sodium laureth sulfate (SLES), cocamidopropyl betaine (CAPB), or mixtures thereof.

9. A concentrate composition according to any preceding claim which comprises cocamidopropyl betaine (CAPB), 2-hydroxyoctanol, glutamic acid N,N-diacetic acid (GLDA) and the triethanolamine salt of octanoic acid.

10. A concentrate composition according to any preceding claim wherein components (a) and (b) together comprise at least 20 wt% of the composition.

11. A concentrate composition according to any preceding claim wherein component (a), component (b) and water together comprise at least 90 wt% of the composition.

12. A concentrate composition according to any preceding claim which is in the form of a stable emulsion.

13. A concentrate composition according to any preceding claim wherein component (b) comprises an aldehyde, a chelating agent and an amine salt of a carboxylic acid.

14. A concentrate composition according to any preceding claim which comprises 0.5 to 5 wt% of a surfactant compound, from 2 to 10 wt% of an aldehyde, from 5 to 25 wt% of a chelating agent and from 3 to 15 wt% of an amine salt of a carboxylic acid.

15. A formulated composition comprising a concentrate composition according to any preceding claim and one or more further components.

16. A method of preparing a formulated composition, the method comprising admixing a concentrate composition as defined in any of claims 1 to 14 with one or more further components.

17. A formulated composition or method according to claim 15 or claim 16 wherein the formulated composition is a hair care composition.

18. A formulated composition or method according to any of claims 15 to 17 which provides one or more benefits selected from increased gloss or shine, improved combability, improved strength, increased softness, reduced protein loss, improved thermal durability, increased chemical resistance, increased waviness and increased straightness.

19. A formulated composition or method according to claim 18 wherein the benefit may be temporary, semi-permanent or permanent.

20. The use of a composition as claimed in any of claims 1 to 15 or 17 to combat colour loss from a dyed material.