

Claims

1. A composition comprising:

30%-100% by weight of the composition of a mixture comprising:
 - (a) a neutralized amino acid ester selected from the group consisting of Brassica L-isoleucine esylate, leucine isostearyl ester esylate, and combinations thereof, in an amount of 35%-85% by weight of the mixture; and
 - (b) a glyceride component in an amount of 15%-65% by weight of the mixture, wherein the glyceride component comprises monoglycerides, diglycerides, or a combination thereof, and optionally up to 50% by weight triglycerides, based on the weight of the glyceride component, provided that, if the only glyceride in the glyceride component is a monoglyceride, that monoglyceride has a fatty acid carboxylate group of greater than 10 carbon atoms; and

optionally, 0-70% by weight of the composition of one or more solvents.
2. The composition of claim 1, wherein an amine group of the amino acid is neutralized by an acid selected from the group consisting of ethane sulfonic acid, hydrochloric acid, sulfuric acid, phosphoric acid, lactic acid, citric acid, maleic acid, adipic acid, boric acid, glutamic acid, glycolic acid, acetic acid, ascorbic acid, uric acid, oxalic acid, aspartic acid, butyric acid, lauric acid, glycine, formic acid, and combinations thereof.

3. The composition of claim 1 or 2, wherein the glyceride component comprises a combination of monoglycerides and diglycerides having a carbon chain length of 8-32 carbon atoms.
4. The composition of claim 3, wherein the monoglycerides and diglycerides have a carbon chain length of 16-22 carbon atoms.
5. The composition of any one of claims 1-4, wherein at least 50% of the carbon chains in the monoglycerides and diglycerides in the glyceride component have at least one double bond.
6. The composition of any one of claims 1-5, wherein the monoglycerides and diglycerides are present in the glyceride component in a ratio of 3:1 to 1:3.
7. The composition of claim 6, wherein the ratio of monoglycerides to diglycerides is 1:1.
8. The composition of any one of claims 1-7, wherein the neutralized amino acid ester comprises about 50% to about 60% by weight of the mixture, and the glyceride component comprises about 40% to about 50% by weight of the mixture.
9. The composition of claim 8, wherein the neutralized amino acid ester comprises about 55% to 57% by weight of the mixture, and the glyceride component comprises about 43% to 45% by weight of the mixture.
10. The composition of any one of claims 1-9, wherein the solvent is selected from the group consisting of propylene glycol, 1,3-propandiol, glycol ethers, glycerin, sorbitan esters, lactic acid, alkyl lactyl lactates, isopropyl alcohol, ethyl alcohol,

dimethyl adipate, oleyl alcohol, 1,2-isopropylidene glycerol, benzyl alcohol, dimethyl lauramide myristamide, N-butyl lactate, trimethyl citrate, dimethyl lactide, laureth-2 lactide, 1,2-butylene carbonate, conjugated linoleic acid, isosorbide dimethyl ether, propylene carbonate, C6-C18 methyl esters, citrate, C12-15 alkyl benzoate, and combinations thereof.

11. A formulation comprising:
 - (a) 0.01% to about 50% by weight of a composition active comprising the composition of any one of claims 1-10;
 - (b) optionally, one or more additional components; and
 - (c) diluent to balance the formulation to 100%.
12. The formulation of claim 11, wherein the formulation is a hair conditioner, a hair repair composition, a personal cleansing product, a fabric softener, a fabric conditioner, a hard surface cleaner, or a skin care composition.
13. The formulation of claim 11 or 12, wherein the formulation, when applied to a hair tress, provides a wet combing Dia-Stron maximum peak load of about 50 gram mass force (gmf) or less.
14. A hair care composition comprising:
 - (a) about 0.01% to about 50% by weight of a composition active, wherein the composition active comprises a mixture of (i) a neutralized amino acid ester selected from the group consisting of Brassica L-isoleucine esylate, leucine isostearyl ester esylate, and combinations thereof, in an amount of 35%-85% by

- weight of the mixture, and (ii) a glyceride component in an amount of 15% to 65% by weight of the mixture, wherein the glyceride component comprises monoglycerides, diglycerides, or a combination thereof, and optionally up to 50% by weight triglycerides, based on the weight of the glyceride component, provided that, if the only glyceride in the glyceride component is a monoglyceride, that monoglyceride has a fatty acid carboxylate group of greater than 10 carbon atoms;
- (b) optionally, one or more additional components; and
 - (c) diluent to balance the formulation to 100%.
15. The composition of claim 14, wherein an amine group of the amino acid is neutralized by an acid selected from the group consisting of ethane sulfonic acid, hydrochloric acid, sulfuric acid, phosphoric acid, lactic acid, citric acid, maleic acid, adipic acid, boric acid, glutamic acid, glycolic acid, acetic acid, ascorbic acid, uric acid, oxalic acid, aspartic acid, butyric acid, lauric acid, glycine, formic acid, and combinations thereof.
16. The composition of claim 14 or 15, wherein the glyceride component comprises a combination of monoglycerides and diglycerides having a carbon chain length of 8-32 carbon atoms.
17. The composition of claim 16, wherein the monoglycerides and diglycerides have a carbon chain length of 16-22 carbon atoms.
18. The composition of any one of claims 14-17, wherein at least 50% of the carbon chains in the monoglycerides and diglycerides in the glyceride component have at least one double bond.

19. The composition of any one of claims 14-18, wherein the monoglycerides and diglycerides are present in the glyceride component in a ratio of 3:1 to 1:3.
20. The composition of claim 19, wherein the ratio of monoglycerides to diglycerides is 1:1.
21. The composition of any one of claims 14-20, wherein the neutralized amino acid ester comprises about 50% to about 60% by weight of the mixture, and the glyceride component comprises about 40% to about 50% by weight of the mixture.
22. The composition of claim 21, wherein the neutralized amino acid ester comprises about 55% to about 57% by weight of the mixture, and the glyceride component comprises about 43% to about 45% by weight of the mixture.
23. The composition of any one of claims 14-22, wherein the composition active further comprises a solvent.
24. The composition of claim 23, wherein the solvent is selected from the group consisting of propylene glycol, 1,3-propandiol, glycol ethers, glycerin, sorbitan esters, lactic acid, alkyl lactyl lactates, isopropyl alcohol, ethyl alcohol, dimethyl adipate, oleyl alcohol, 1,2-isopropylidene glycerol, benzyl alcohol, dimethyl lauramide myristamide, N-butyl lactate, trimethyl citrate, dimethyl lactide, laureth-2 lactide, 1,2-butylene carbonate, conjugated linoleic acid, isosorbide dimethyl ether, propylene carbonate, C6-C18 methyl esters, citrate, C12-15 alkyl benzoate, and combinations thereof.
25. The composition of claim 23 or 24, wherein the solvent amount in the composition active is about 1% to about 70% by weight.

26. The composition of any one of claims 14-25, wherein the hair care composition, when applied to a hair tress, provides a wet combing Dia-Stron maximum peak load of about 50 gram mass force (gmf) or less.
27. The composition of any one of claims 14-26, wherein the diluent comprises water, a solvent, or a combination thereof.
28. The composition of any one of claims 14-27, wherein the composition active is present in the composition in an amount of 0.01% to about 12% by weight of the composition.
29. The composition of claim 28, wherein the amount of the composition active is about 0.1% to about 5% by weight of the composition.
30. The composition of any one of claims 14-29, wherein the composition provides better wet combing, as measured by a wet combing Dia-Stron process, compared to a similar composition containing the same amount of composition active but without the glyceride component.