CLAIMS

1. An oral care composition comprising:

a) a flavor component comprising:

i) a taste-masking agent comprising: cinnamic aldehyde; eugenol; and eucalyptol; and

ii) one or more flavoring agents selected from: L-menthol; N-ethyl-para-menthan-3-carboxamide; anethole; peppermint oil; spearmint oil; corn mint oil; and a combination of two or more thereof;

b) one or more zinc salts selected from: zinc oxide; zinc sulfate; zinc chloride; zinc citrate; zinc lactate; zinc gluconate; zinc malate; zinc tartrate; zinc carbonate; zinc phosphate; and a combination of two or more thereof ; and

c) an orally acceptable carrier;

wherein the flavor component is present at a concentration of from about 0.5 to about 2.5%, by weight; the total concentration of said one or more zinc salts is from about 0.01 to about 5%, by weight of the composition; the flavor component comprises greater than 0.1%, by weight, cinnamic aldehyde, greater than 0.1%, by weight, eugenol and greater than 0.5%, by weight, eucalyptol .

2. The composition of claim 1, wherein at least one of the one or more flavoring agents is L-menthol.

3. The composition of any one of claims 1 and 2, wherein at least one of the one or more flavoring agents is N-ethyl-para-menthan-3-carboxamide.

4. The composition of any one of claims 1 to 3, wherein at least one of the one or more flavoring agents is anethole.

5. The composition of any one of claims 1 to 4, wherein at least one of the one or more flavoring agents is peppermint oil.

6. The composition of any one of claims 1 to 5, wherein at least one of the one or more flavoring agents is spearmint oil.

7. The composition of any one of claims 1 to 6, wherein at least one of the one or more flavoring agents is corn mint oil.

8. The composition of any one of claims 2 to 7, wherein the flavor component comprises greater than 29.5%, by weight, L-menthol.

9. The composition of any one of claims 3 to 8 , wherein the flavor component comprises greater than 4.5%, by weight, N-ethyl-para-menthan-3-carboxamide.

10. The composition of any one of claims 4 to 9, wherein the flavor component comprises less than 14.5%, by weight, anethole.

11. The composition of any one of claims 5 to 10, wherein the flavor component comprises less than 40.5%, by weight, peppermint oil.

12. The composition of any one of claims 6 to 11, wherein the flavor component comprises less than 5.5%, by weight, spearmint oil.

13. The composition of any one of claims 7 to 12, wherein the flavor component comprises greater than 4.5%, by weight, corn mint oil.

14. The composition of claim 1, wherein the flavor component comprises:
greater than 29.5%, by weight, L-menthol;
greater than 4.5%, by weight, N-ethyl-para-menthan-3-carboxamide;
less than 14.5%, by weight, anethole;
greater than 0.1%, by weight, cinnamic aldehyde;
greater than 0.1%, by weight, eugenol;

greater than 0.5%, by weight, eucalyptol;
less than 40.5%, by weight, peppermint oil;
less than 5.5%, by weight, spearmint oil; and
greater than 4.5%, by weight, corn mint oil.

15. The composition of claim 14 , wherein the flavor component comprises:
from about 30 to about 50%, by weight, L-menthol;
from about 5 to about 10%, by weight, N-ethyl-para-menthan-3-carboxamide;
from about 5 to about 14%, by weight, anethole;
from about 0.1 to about 1%, by weight, cinnamic aldehyde;
from about 0.1 to about 1%, by weight, eugenol;
from about 1 to about 5%, by weight, eucalyptol;
from about 20 to about 40%, by weight, peppermint oil;
from about 1 to about 5%, by weight, spearmint oil; and
from about 5 to about 10%, by weight, corn mint oil.

16. The composition of claim 14 or claim 15 , wherein the flavor component comprises:
from about 35 to about 45%, by weight, L-menthol;
from about 5 to about 8%, by weight, N-ethyl-para-menthan-3-carboxamide;
from about 8 to about 12%, by weight, anethole;
from about 0.5 to about 0.9%, by weight, cinnamic aldehyde;
from about 0.5 to about 0.9%, by weight, eugenol;
from about 2 to about 4%, by weight, eucalyptol; and
from about 22 to about 27%, by weight, peppermint oil.

17. The composition of any one of claims 1 to 16, wherein the zinc salt is selected from: zinc oxide; zinc citrate; zinc gluconate; zinc glycinate; zinc lactate; and a combination of two or more thereof.

18. The composition of any one of claims 1 to 17, wherein the zinc salt is zinc citrate.

19. The composition of any one of claims 1 to 18, wherein the metal salt is present at a concentration of from about 1 to about 3%, by weight.

20. The composition of any one of claims 1 to 19, wherein the flavor component is present at a concentration of from about 0.8 to about 1.5%, by weight.

21. The composition of any one of claims 1 to 20, further comprising one or more components selected from: a fluoride ion source; a tartar control agent; a buffering agent; an abrasive; and a combination of two or more thereof.

22. The composition according to any one of claims 1 to 21, wherein at least one of said one or more components is a fluoride ion source selected from: stannous fluoride, sodium fluoride, potassium fluoride, sodium monofluorophosphate, sodium fluorosilicate, ammonium fluorosilicate, amine fluoride, ammonium fluoride, and a combination of two or more thereof.

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CLAIMS

1. An oral care composition comprising:

a) a flavor component comprising:

i) a taste-masking agent comprising: cinnamic aldehyde; eugenol; and eucalyptol; and

ii) one or more flavoring agents selected from: L-menthol; N-ethyl-para-menthan-3-carboxamide; anethole; peppermint oil; spearmint oil; corn mint oil; and a combination of two or more thereof;

b) one or more metal salts selected from: a zinc salt; a calcium salt; a copper salt; an iron salt; a magnesium salt; a manganese salt; and a combination of two or more thereof; and

c) an orally acceptable carrier;

wherein the total concentration of said one or more metal salts is from about 0.01 to about 5%, by weight of the composition.

2. The composition of claim 1, wherein the flavor component comprises greater than 0.1%, by weight, cinnamic aldehyde.

3. The composition of claim 1 or claim 2, wherein the flavor component comprises greater than 0.1%, by weight, eugenol.

4. The composition of any one of claims 1 to 3, wherein the flavor component comprises greater than 0.5%, by weight, eucalyptol.

5. The composition of any one of claims 1 to 4, wherein at least one of the one or more flavoring agents is L-menthol.

6. The composition of any one of claims 1 to 5, wherein at least one of the one or more flavoring agents is N-ethyl-para-menthan-3-carboxamide.

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7. The composition of any one of claims 1 to 6, wherein at least one of the one or more flavoring agents is anethole.

8. The composition of any one of claims 1 to 7, wherein at least one of the one or more flavoring agents is peppermint oil.

9. The composition of any one of claims 1 to 8, wherein at least one of the one or more flavoring agents is spearmint oil.

10. The composition of any one of claims 1 to 9, wherein at least one of the one or more flavoring agents is corn mint oil.

11. The composition of any one of claims 5 to 10, wherein the flavor component comprises greater than 29.5%, by weight, L-menthol.

12. The composition of any one of claims 6 to 11, wherein the flavor component comprises greater than 4.5%, by weight, N-ethyl-para-menthan-3-carboxamide.

13. The composition of any one of claims 7 to 12, wherein the flavor component comprises less than 14.5%, by weight, anethole.

14. The composition of any one of claims 8 to 13, wherein the flavor component comprises less than 40.5%, by weight, peppermint oil.

15. The composition of any one of claims 9 to 14, wherein the flavor component comprises less than 5.5%, by weight, spearmint oil.

16. The composition of any one of claims 10 to 15, wherein the flavor component comprises greater than 4.5%, by weight, corn mint oil.

17. The composition of claim 1, wherein the flavor component comprises:

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greater than 29.5%, by weight, L-menthol;
greater than 4.5%, by weight, N-ethyl-para-menthan-3-carboxamide;
less than 14.5%, by weight, anethole;
greater than 0.1%, by weight, cinnamic aldehyde;
greater than 0.1%, by weight, eugenol;
greater than 0.5%, by weight, eucalyptol;
less than 40.5%, by weight, peppermint oil;
less than 5.5%, by weight, spearmint oil; and
greater than 4.5%, by weight, corn mint oil.

18. The composition of claim 17, wherein the flavor component comprises:
from about 30 to about 50%, by weight, L-menthol;
from about 5 to about 10%, by weight, N-ethyl-para-menthan-3-carboxamide;
from about 5 to about 14%, by weight, anethole;
from about 0.1 to about 1%, by weight, cinnamic aldehyde;
from about 0.1 to about 1%, by weight, eugenol;
from about 1 to about 5%, by weight, eucalyptol;
from about 20 to about 40%, by weight, peppermint oil;
from about 1 to about 5%, by weight, spearmint oil; and
from about 5 to about 10%, by weight, corn mint oil.

19. The composition of claim 17 or claim 18, wherein the flavor component comprises:
from about 35 to about 45%, by weight, L-menthol;
from about 5 to about 8%, by weight, N-ethyl-para-menthan-3-carboxamide;
from about 8 to about 12%, by weight, anethole;
from about 0.5 to about 0.9%, by weight, cinnamic aldehyde;
from about 0.5 to about 0.9%, by weight, eugenol;
from about 2 to about 4%, by weight, eucalyptol; and
from about 22 to about 27%, by weight, peppermint oil.

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20. The composition of any one of claims 1 to 19, wherein at least one of said one or more metal salts is a zinc salt selected from: zinc oxide; zinc sulfate; zinc chloride; zinc citrate; zinc lactate; zinc gluconate; zinc malate; zinc tartrate; zinc carbonate; zinc phosphate; and a combination of two or more thereof.

21. The composition of any one of claims 1 to 20, wherein the zinc salt is selected from: zinc oxide; zinc citrate; zinc gluconate; zinc glycinate; zinc lactate; and a combination of two or more thereof.

22. The composition of any one of claims 1 to 21, wherein the zinc salt is selected from: zinc oxide; zinc citrate; and a combination of two or more thereof.

23. The composition of any one of claims 1 to 22, wherein the zinc salt is zinc citrate.

24. The composition of any one of claims 1 to 23, wherein the metal salt is present at a concentration of from about 0.1 to about 4%, by weight.

25. The composition of any one of claims 1 to 24, wherein the metal salt is present at a concentration of from about 1 to about 3%, by weight.

26. The composition of any one of claims 1 to 25, wherein the metal salt is present at a concentration of about 2%, by weight.

27. The composition of any one of claims 1 to 26, wherein the flavor component is present at a concentration of from about 0.5 to about 2.5%, by weight.

28. The composition of any one of claims 1 to 27, wherein the flavor component is present at a concentration of from about 0.8 to about 1.5%, by weight.

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29. The composition of any one of claims 1 to 28, wherein the flavor component is present at a concentration of about 1%, by weight.

30. The composition of any one of claims 1 to 29, further comprising one or more components selected from: a fluoride ion source; a tartar control agent; a buffering agent; an abrasive; and a combination of two or more thereof.

31. The composition according to any one of claims 1 to 30, wherein at least one of said one or more components is a fluoride ion source selected from: stannous fluoride, sodium fluoride, potassium fluoride, sodium monofluorophosphate, sodium fluorosilicate, ammonium fluorosilicate, amine fluoride, ammonium fluoride, and a combination of two or more thereof.

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