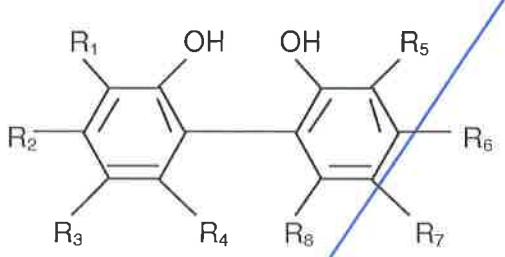
CLAIMS:

1. A coating composition comprising a polyglycidyl ether of a 2,2'-biphenol, wherein said coating is substantially free of bisphenol A and/or derivatives and/or residues thereof and bisphenol F and/or derivatives and/or residues thereof.

2. The coating composition of claim 1 wherein said coating is essentially completely free of bisphenol A and/or derivatives and/or residues thereof and bisphenol F and/or derivatives and/or residues thereof.

3. The coating composition of claim 1 wherein said coating is completely free of bisphenol A and/or derivatives and/or residues thereof and bisphenol F and/or derivatives and/or residues thereof.

4. The coating composition of claim 1 in which the 2,2'-biphenol has the structure:



in which R_1, R_2, R_3, R_4, R_5, R_6, R_7 and R_8 may be the same or different and are independently hydrogen and hydrocarbyl.

5. The coating composition of claim 4 in which R_1, R_2, R_3, R_4, R_5, R_6, R_7 and R_8 are hydrogen.

6. The coating composition of claim 1, wherein the polyglycidyl ether of 2,2'-biphenol is further chain-extended with a polyol.

7. The coating composition of claim 6, wherein the polyol comprises 2,2'-biphenol.

8. The coating composition of claim 6, wherein the polyol comprises a polymeric polyol.

9. The coating composition of claim 8 in which the polymeric polyol comprises a (meth)acrylic polymer and/or a polyester polymer.

10. The coating composition of claim 1, wherein said polyglycidyl ether of a 2,2'-biphenol is phosphated.

11. The coating composition of claim 1, wherein said 2,2-biphenol is phosphated by reaction with a phosphorus acid.

12. The coating composition of claim 11, wherein such coating is an electrodepositable coating.

13. The coating composition of claim 8 in which the polyglycidyl ether of 2,2'-biphenol and the polymeric polyol are reacted together to form an ungelled resinous binder.

14. A method for coating a substrate comprising applying to at least a portion of the substrate the coating of Claim 1.

15. A substrate coated at least in part with the coating of Claim 1.

16. A substrate coated at least in part with the coating of Claim 10.

17. The substrate of Claim 15, wherein the substrate comprises a package.

18. The substrate of Claim 16, wherein the substrate comprises a package.

19. The substrate of Claim 17, wherein the package comprises a metal can.

20. The substrate of Claim 18, wherein the package comprises a metal can.

21. A coating composition comprising a phosphated polyglycidyl ether of a 2,2'-biphenol.

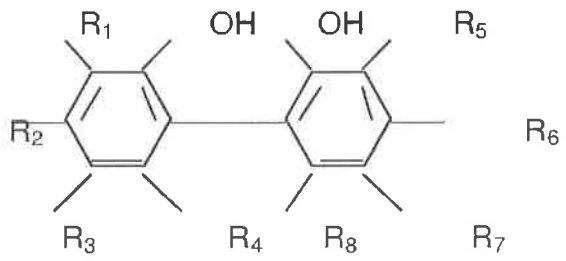
CLAIMS:

1. A container comprising a food-contacting surface wherein at least a portion of the food-contacting surface is coated with a composition comprising a polyglycidyl ether of a 2,2'-biphenol, wherein said coating is substantially free of bisphenol A and/or derivatives and/or residues thereof and bisphenol F and/or derivatives and/or residues thereof.

2. The container of claim 1 wherein said composition is essentially completely free of bisphenol A and/or derivatives and/or residues thereof and bisphenol F and/or derivatives and/or residues thereof.

3. The container of claim 1 wherein said composition is completely free of bisphenol A and/or derivatives and/or residues thereof and bisphenol F and/or derivatives and/or residues thereof.

4. The container of any one of claims 1 to 3 in which the 2,2'-biphenol has the structure:



in which R_1, R_2, R_3, R_4, R_5, R_6, R_7 and R_8 may be the same or different and are independently hydrogen and hydrocarbyl.

5. The container of claim 4 in which R_1, R_2, R_3, R_4, R_5, R_6, R_7 and R_8 are hydrogen.

6. The container of any one of claims 1 to 5, wherein the polyglycidyl ether of 2,2'-biphenol is further chain-extended with a polyol.

7. The container of claim 6, wherein the polyol comprises 2,2'-biphenol.

8. The container of claim 6, wherein the polyol comprises a polymeric polyol.

9. The container of claim 8 in which the polymeric polyol comprises a (meth)acrylic polymer and/or a polyester polymer.

10. The container of claim 1, wherein said polyglycidyl ether of a 2,2'-biphenol is phosphated.

11. The container of claim 1, wherein said 2,2-biphenol is phosphated by reaction with a phosphorus acid.

12. The container of claim 11, wherein the composition is applied by electrodeposition.

13. The container of claim 8 in which the polyglycidyl ether of 2,2'-biphenol and the polymeric polyol are reacted together to form an ungelled resinous binder.

14. The container of any one of claims 1 to 13, comprising a metal can.

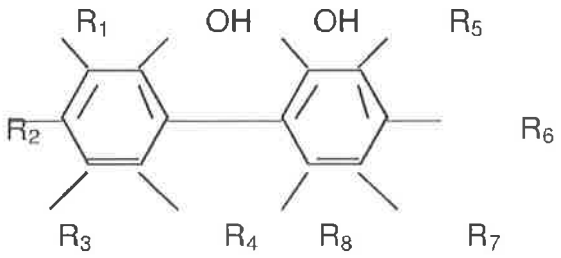
15. A method for coating a container having a food-contacting surface comprising applying to at least a portion of the food-contacting surface a composition comprising a polyglycidyl ether of a 2,2'-biphenol, wherein said coating is substantially free of bisphenol A and/or derivatives and/or residues thereof and bisphenol F and/or derivatives and/or residues thereof.

16. Use of a coating composition comprising a polyglycidyl ether of a 2,2'-biphenol, wherein said coating contains less than 100 ppm of bisphenol A and/or derivatives and/or residues thereof and bisphenol F and/or derivatives and/or residues thereof for coating food and/or beverage packaging.

17. Use of claim 16 wherein said coating contains less than 20 ppm of bisphenol A and/or derivatives and/or residues thereof and bisphenol F and/or derivatives and/or residues thereof.

18. Use of claim 16 wherein said coating is completely free of bisphenol A and/or derivatives and/or residues thereof and bisphenol F and/or derivatives and/or residues thereof.

19. Use of claim 16 in which the 2,2'-biphenol has the structure:



in which R_1, R_2, R_3, R_4, R_5, R_6, R_7 and R_8 may be the same or different and are independently hydrogen and hydrocarbyl.

20. Use of claim 19 in which R_1, R_2, R_3, R_4, R_5, R_6, R_7 and R_8 are hydrogen.

21. Use of claim 16, wherein the polyglycidyl ether of 2,2'-biphenol is further chain- extended with a polyol.

22. Use of claim 21, wherein the polyol comprises 2,2'-biphenol or a polymeric polyol.

23. Use of claim 22 in which the polymeric polyol comprises a (meth)acrylic polymer and/or a polyester polymer.

24. Use of claim 16, wherein said polyglycidyl ether of a 2,2'-biphenol is phosphated.

25. Use of claim 16, wherein said 2,2-biphenol is phosphated by reaction with a phosphorus acid.

26. Use of claim 16, wherein such coating is an electrodepositable coating.

27. Use of claim 22 in which the polyglycidyl ether of2,2'-biphenol and the polymeric polyol are reacted together to form an ungelled resinous binder.

28. A method for coating a substrate selected from food and/or beverage packaging comprising applying to at least a portion of the substrate the coating composition as defined in claim 16.

29. A substrate selected from food and/or beverage packaging coated at least in part with the coating composition as defined in any of claim 16 or 24.

30. The substrate of claim 29, wherein the package comprises a metal can.