particularly suitable for use as a petroleum naphtha substitute owing to the carbon contents and the amounts of the various hydrocarbons.

A key feature of the composition of the invention is that it can be produced from a renewable biological feedstock. More particularly, it is possible to produce the composition by subjecting a biological feedstock (e.g. crude tall oil) to hydroprocessing (i.e. treatment with hydrogen gas) using a catalyst. Hydroprocessing chemically alters compounds in the feedstock; heteroatoms (e.g. sulfur and oxygen) can be removed from feedstock compounds and unsaturated compounds can be hydrogenated.

Another embodiment of the invention is a method of producing a composition as defined above, the method comprising the step of hydroprocessing a biological feedstock using one or more catalysts and fractionating the hydroprocessed product. As mentioned above, the ability to produce the composition of the invention from a biological feedstock enables the composition to be used as a renewable fuel component.

A further embodiment of the invention is the use of a composition as defined above as a fuel or a fuel component. The composition is suitable for use as a biofuel on its own or as a renewable component of a fuel due to its high hydrocarbon content and low oxygen content.

A still further embodiment of the invention is a fuel blend comprising a composition as defined above. As already mentioned, the composition is compatible with petrofuels, particularly petroleum naphtha and petroleum gasoline. The

6. A composition according to any preceding claim, wherein the linear alkanes are C_{5-10} linear alkanes.

7. A composition according to any preceding claim, wherein the branched alkanes are C_{5-11} branched alkanes

8. A composition according to any preceding claim, wherein the cycloalkanes are C_{6-10} cycloalkanes.

9. A composition according to any preceding claim, wherein the aromatic hydrocarbons are C_{6-10} aromatic hydrocarbons.

10. A method of producing a composition as defined in any preceding claim comprising the steps of:

(i) hydroprocessing a biological feedstock using one or more catalysts; and

(ii) fractionating the product of step (i).

11. A method according to Claim 10, wherein the biological feedstock comprises a vegetable oil and/or an animal fat.

12. A method according to Claim 10, wherein the biological feedstock comprises at least 15 mass% of C_{12-18} fatty acids, at least 15 mass% of resin acids and at least 10 mass% of neutral compounds based on the mass of the feedstock.

13. A method according to any of Claims 10-12, wherein the hydroprocessing step is performed using one or more catalysts which each comprise one or more metals selected from Group VIA and Group VIII metals and one or more support materials selected from zeolite, alumina, zeolite-alumina, alumina-silica, alumina-silica-zeolite and activated carbon.