CLAIMS

1. Use of a composition comprising a mixture of castor oil fatty acid methyl esters as a dielectric fluid in an electrical device, wherein the mixture of castor oil fatty acid methyl esters comprises methyl stearate in a mass content of 1 to 20%, methyl oleate in a mass content of 1 to 90%, methyl linoleate in a mass content of 1 to 80%, methyl palmitate in a mass content of 1 to 50%, methyl ricinoleate in a mass content of 2 to 3% and 10-undecylenic acid in a mass content of 0 to 1%.

2. Use according to claim 1, wherein the electrical device is chosen from transformers, capacitors and electric cables.

3. Use according to one of the claims 1 to 2, wherein the mixture of castor oil fatty acid methyl esters comprises:

- methyl stearate, in a mass content of less than 15%; and/or
- methyl oleate, in a mass content of 25 to 35%; and/or
- methyl linoleate, in a mass content of 35 to 45%; and/or
- methyl palmitate, in a mass content of less than 10%; and/or
- methyl ricinoleate, in a mass content of 2 to 3%; and/or
- 10-undecylenic acid, in a mass content of 0 to 1%.

4. Use according to one of the claims 1 to 3, wherein the composition essentially consists, or even consists, of the mixture of castor oil fatty acid methyl esters.

5. Use according to one of the claims 1 to 3, wherein the composition comprises a pour point depressant additive, preferably in a mass proportion of 0.1 to 5%, preferably of 1 to 2%.

6. Use according to claim 5, wherein the composition essentially consists, or even consists, of the mixture of castor oil fatty acid methyl esters and the pour point depressant additive.

7. Use according to one of the claims 5 to 6, wherein the pour point depressant additive is an acrylic polymer dissolved in an oil.

8. Electrical device comprising an enclosure containing a composition comprising a mixture of castor oil fatty acid methyl esters as a dielectric fluid, wherein the mixture of castor oil fatty acid methyl esters comprises methyl stearate in a mass content of 1 to 20%, methyl oleate in a mass content of 1 to 90%, methyl linoleate in a mass content of 1 to 80%, methyl palmitate in a mass content of 1 to 50%, methyl ricinoleate in a mass content of 2 to 3% and 10-undecylenic acid in a mass content of 0 to 1%.

9. Electrical device according to claim 8, which is chosen from transformers, capacitors and electric cables.

10. Electrical device according to claim 8 or 9, wherein the composition is as described in claims 3 to 7.