Claims

1. Microemulsion comprising
water in an amount of 1-30 w%;
sodium or potassium oleate, Na/K salts of tall oil fatty acid, and/or Na/K salts of C16-C18 saturated or unsaturated fatty acids in an amount of 10-40 w%;
oleic acid, tall oil fatty acid, or C16-C18 saturated or unsaturated fatty acids in an amount of 2-40 w%;
ethanol in an amount of ~~0-40~~5-40 w%;
glycerol in an amount of 5-40 w%;
and liquid hydrocarbon(s) in an amount of 5-40 w%, up to a maximum or total of components parts of 100 w%.

2. Microemulsion according to claim 1, comprising
water in an amount of 2-10 w%;
sodium or potassium oleate , Na/K salts of tall oil fatty acid, and/or Na/K salts of C16-C18 saturated or unsaturated fatty acids in an amount of 14-27 w%;
oleic acid, tall oil fatty acid, or C16-C18 saturated or unsaturated fatty acids in an amount of 10-24 w%;
ethanol in an amount of ~~0-40~~5-40 w%~~, e.g. 0-26 w%~~;
glycerol in an amount of 10-31 w%;
and liquid hydrocarbons in an amount of 11-24 w%, up to a maximum or total of components parts of 100 w%.

3. Microemulsion according to any of the preceding claims, wherein the liquid hydrocarbon is C11-C20 alkanes and/or isoalkanes.

4. Microemulsion according to any of the preceding claims, wherein the liquid hydrocarbon is hexadecane, diesel, HVO, PAO, a naphthenic or paraffinic base oil or a combination thereof.

5. Microemulsion according to any of the preceding claims, having a viscosity in the interval of from 20 to 400 cp at 20 °C.

6. Microemulsion according to any of the preceding claims, having a storage stability of more than 30 days at 20 °C.

7. Microemulsion according to any of the preceding claims, to which wood tar has been added in an amount of up to 15 w%.

8. Microemulsion according to any of the preceding claims, to which an antioxidant, antiwear agent, and/or extreme-pressure additive has been added in an amount of 0.1 to 5 w%.

9. Microemulsion according to any of the preceding claims, to which wood preservatives such as antifungal substance(s) have been added in an amount of 0.1 to 5 w%.

~~10. Microemulsion according to any of claims 1-11, comprising 5-40 w% ethanol and existing in the form of a microemulsion.~~

~~11~~10. Microemulsion according to ~~claim 10~~any of claims 1 - 9, comprising 12-26 w% ethanol.

~~12~~11. Gel, comprising 35-50 w% of the microemulsion according to any of claims 1 – ~~11~~10, and 50 – 65 w% of a hydrotreated vegetable oil, up to a maximum or total of components parts of 100 w%.

~~13~~12. Method of preparing a microemulsion according to any of claims 1 – ~~11~~10, comprising the following consecutive steps:
(a) mixing of NaOH or KOH with water, glycerol, and ethanol to obtain a solution;
(b) mixing oleic acid, tall oil fatty acid, and/or C16-C18 saturated or unsaturated fatty acid(s) into the solution to obtain a microemulsion;
(c) mixing of the microemulsion with liquid hydrocarbon(s) to form a second microemulsion;
(d) optionally addition of water or ethanol;
(e) optionally ~~full or~~ partial evaporation of the ethanol,
whereby steps (d) and (e) may be performed in reversed order.

~~14~~13. Method according to claim ~~13~~12, wherein in step (d) water or ethanol is added.

~~15~~14. Method according to claim ~~13~~ 12 , wherein in step (e) ethanol is ~~fully or~~ partially evaporated.

~~16~~15. Method according to any of claims ~~13-15~~12-14, wherein all carbon compounds are biogenic.

~~17~~16. Use of a microemulsion according to any of claims 1 – ~~11~~ 10 for temporary corrosion protection on metal surfaces, especially steel.

~~18~~17. Use of a microemulsion according to any of claims 1 – ~~11~~ 10 as a lubricant.

~~19~~18. Use according to claim ~~18~~17, wherein driving chains, chain saw chains, belts, wire winches, cranes, brake calipers, chain saw chains, or leaf springs are lubricated.

~~20~~19. Use of a microemulsion according to claims 1-~~11~~ 10 as metal working fluid.

~~21~~20. Use of a microemulsion according to any of claims 1 – ~~11~~ 10 as a water proofing agent for porous materials.

~~22~~21. Use according to claim ~~21~~20, wherein the porous materials constitute rock cavities and/or concrete constructions.

~~23~~22. Use of a microemulsion according to any of claims 1 – ~~11~~ 10 for coating of paper, paperboard, cardboard, or rubber.

~~24~~23. Use of a microemulsion according to any of claims 1 – ~~11~~ 10 as a leather or rubber shine liquid, or as a leather impregnation liquid.

~~25~~24. Use of a microemulsion according to any of claims 1 – ~~11~~10, as a thickening agent for hydrotreated vegetable oil.

~~26~~25. Use of a gel according to claim ~~12~~11, as a fuel or a lubricant.

~~27~~26. Package or container comprising a microemulsion according to any of claims 1 – ~~11~~10, or a gel according to claim ~~12~~11, wherein the microemulsion or gel is fully diluted or intended to be diluted with up to 35 w% water.

~~28~~27. Kit of parts, comprising
(a) Package or container ~~comprising~~ containing a microemulsion or gel according to claim ~~27~~26;
(b) Instructions for use.

~~29~~28. Wood block, characterized in that it has been impregnated with a microemulsion according to any of claims 1 – ~~11~~10.