

Claims

1. Microemulsion comprising
5 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%;
10 ethanol in an amount of 0-40 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%.
- 15 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
20 10-24 w%;
ethanol in an amount of 0-40 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%.
- 25 3. Microemulsion according to any of the preceding claims, wherein the liquid hydrocarbon
is C11-C20 alkanes and/or isoalkanes.
- 30 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.
- 35 5. Microemulsion according to any of the preceding claims, having a viscosity in the interval
of from 20 to 400 cp at 20 °C.
- 40 6. Microemulsion according to any of the preceding claims, having a storage stability of more
than 30 days at 20 °C.
- 45 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. Microemulsion according to claim 10, comprising 12-26 w% ethanol.
- 5 12. Gel, comprising 35-50 w% of the microemulsion according to any of claims 1 – 11, and 50 – 65 w% of a hydrotreated vegetable oil, up to a maximum or total of components parts of 100 w%.
- 10 13. Method of preparing a microemulsion according to any of claims 1 – 11, 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;
- 15 (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.
- 20 14. Method according to claim 13, wherein in step (d) water or ethanol is added.
15. Method according to claim 13 , wherein in step (e) ethanol is fully or partially evaporated.
- 25 16. Method according to any of claims 13-15, wherein all carbon compounds are biogenic.
17. Use of a microemulsion according to any of claims 1 – 11 for temporary corrosion protection on metal surfaces, especially steel.
- 30 18. Use of a microemulsion according to any of claims 1 – 11 as a lubricant.
19. Use according to claim 18, wherein driving chains, chain saw chains, belts, wire winches, cranes, brake calipers, chain saw chains, or leaf springs are lubricated.
- 35 20. Use of a microemulsion according to claims 1-11 as metal working fluid.
21. Use of a microemulsion according to any of claims 1 – 11 as a water proofing agent for porous materials.
- 40 22. Use according to claim 21, wherein the porous materials constitute rock cavities and/or concrete constructions.
23. Use of a microemulsion according to any of claims 1 – 11 for coating of paper, paperboard, cardboard, or rubber.
- 45 24. Use of a microemulsion according to any of claims 1 – 11 as a leather or rubber shine liquid, or as a leather impregnation liquid.

25. Use of a microemulsion according to any of claims 1 – 11, as a thickening agent for hydrotreated vegetable oil.
26. Use of a gel according to claim 12, as a fuel or a lubricant.
- 5 27. Package or container comprising a microemulsion according to any of claims 1 – 11, or a gel according to claim 12, wherein the microemulsion or gel is fully diluted or intended to be diluted with up to 35 w% water.
- 10 28. Kit of parts, comprising
(a) Package or container comprising a microemulsion or gel according to claim 27;
(b) Instructions for use.
- 15 29. Wood block, characterized in that it has been impregnated with a microemulsion according to any of claims 1 – 11.