

Title (en)

LOW VISCOSITY FUNCTIONAL FLUID COMPOSITION

Title (de)

FUNKTIONALE FLUIDZUSAMMENSETZUNG MIT NIEDRIGER VISKOSITÄT

Title (fr)

COMPOSITION DE LIQUIDE FONCTIONNELLE PEU VISQUEUSE

Publication

EP 4130211 A1 20230208 (EN)

Application

EP 21189129 A 20210802

Priority

EP 21189129 A 20210802

Abstract (en)

This invention relates to a functional fluid, comprising(A) at least 75 wt.-% of alkoxy glycol according to formula (I) wherein n is a number from 2 to 5, with the proviso that in at least 50 wt.-% of all compounds according to formula (I) n is 3, and that 8 to 40 wt.-% of all compounds according to formula (I) have n = 4 or 5, and(B) at most 10 wt.-% of alkoxy glycol according to formula (II) (II)whereinR₁ is a C₂ to C₈ alkyl residue, mis a number from 2 to 6,(C) from 6 to 22, preferably 8 - 18 wt.-% of at least one compound according to formula (III) (III)wherein k is a number of 2 or higher, with the proviso that in at least 80 wt.-% of all compounds according to formula (III) k is 2 or 3,(D) at least one additive, selected from the group consisting of corrosion inhibitors, alkalinity agents, aging protection agents, defoamers and lubricants, the lubricants being selected from the group consisting of propylene oxide containing alkylene oxide polymers that are optionally substituted with a C₁ to C₄ alkyl group, triglycerides, castor oil, ricinoleic acid, and ethoxylates of castor oil or ricinoleic acid, and mixtures thereof, the fluid comprising at most 3 wt.-% of an ester between boric acid and a glycol or alkylpolyglycol compound.

IPC 8 full level

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C-Set (source: EP)

1. **C10M 2209/104 + C10M 2209/108**
2. **C10M 2209/1045 + C10M 2209/1085**

Citation (applicant)

- WO 0065001 A1 20001102 - BASF AG [DE], et al
- WO 0238711 A1 20020516 - UNION CARBIDE CHEM PLASTIC [US]
- US 4371448 A 19830201 - KNOBLAUCH WOLFGANG [DE], et al
- EP 0750033 A1 19961227 - BP CHEM INT LTD [GB], et al
- EP 0617116 A1 19940928 - BP CHEM INT LTD [GB], et al
- WO 2012003117 A1 20120105 - DOW GLOBAL TECHNOLOGIES LLC [US], et al
- EP 0129240 A1 19841227 - MONTEDISON SPA [IT]
- DE 3627432 A1 19880218 - HOECHST AG [DE]
- DE 3627432 C2 19901031
- US 2006264337 A1 20061123 - WENDEROTH BERND [DE], et al
- WO 2007005593 A2 20070111 - DOW GLOBAL TECHNOLOGIES INC [US], et al
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Citation (search report)

- [AD] US 2006264337 A1 20061123 - WENDEROTH BERND [DE], et al
- [AD] WO 2007005593 A2 20070111 - DOW GLOBAL TECHNOLOGIES INC [US], et al
- [AD] EP 0129240 A1 19841227 - MONTEDISON SPA [IT]

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