

Title (en)
COMPOSITION

Title (de)
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COMPOSITION

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Application
EP 18723009 A 20180511

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Abstract (en)
[origin: WO2018210700A1] An aqueous detergent liquid composition comprising: (i) a surfactant system comprising anionic surfactant, and (ii) at least 0.05 wt % of a polymer formed from the polymerisation of monomers consisting of monomer (A1): $R_1C=CR_2R_3$ (A1) And optionally monomer (A2): $R_4C=CR_5R_6$ (A2) R_1 and R_2 are each independently selected from H, methyl, $-C(=O)OH$, or $-C(=O)OR_7$, wherein R_7 is a C1-C30 alkyl; R_3 is $T_1-[CH_2]_k-[O]_p-[R_8O]_q-Y_1-R_9$ T_1 is $-CH_2C(=O)O-$, $-C(=O)O-$, $-O-$, $-CH_2O-$, $-NHC(=O)NH-$, $-C(=O)NH-$, $-Ar-(CE_2)_x-NHC(=O)O-$, $-Ar-(CE_2)_x-NHC(=O)NH-$, or $-CH_2CH_2NHC(=O)-$; Ar is divalent aryl; E is H or methyl; x is 0 or 1; k is an integer in the range of 0 to 30; and p is 0 or 1; optionally with the proviso that when k is 0, p is 0, and when k is in the range of 1 to 30; p is 1; $(R_8O)_q$ is polyoxyalkylene, which is a homopolymer, a random copolymer, or a block copolymer of C2-C4-oxyalkylene units, wherein R_8 is C_2H_4 , C_3H_6 , C_4H_8 , or a mixture thereof, and n is an integer in the range of 5 to 250; Y_1 is $-R_8O-$, $-R_8H-$, $-C(=O)-$, $-C(=O)NH-$, $=R_8NHC(=O)NH-$, or $-C(=O)NHC(=O)-$; and R_9 is substituted or unsubstituted alkyl selected from the group consisting of C8-C40 linear alkyl, C8-C40 branched alkyl, C8-C40 carbocyclic alkyl, C2-C40 alkyl-substituted, phenyl, aryl-substituted C2-C40 alkyl, and C8-C80 complex ester; wherein the R_{11} alkyl group optionally comprises one or more substituents selected from the group consisting of hydroxy, alkoxy, and halogen; R_4 and R_5 are independently H or C1-4 alkyl, preferably H or methyl; R_6 is $-C(O)-OR_{10}$, where R_{10} is H or C1-4 alkyl, preferably H or methyl, more preferably H; and wherein the degree of polymerisation of polymer (ii) is 30 or more.

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