

Title (en)
COMPOSITIONS COMPRISING PHOSPHORIC ACID ESTER AND HYDROPHOBICALLY MODIFIED, CROSS-LINKED ANIONIC POLYMERS

Title (de)
ZUSAMMENSETZUNGEN ENTHALTEND PHOSPHORSÄUREESTER UND HYDROPHOB MODIFIZIERTE, VERNETZTE, ANIONISCHE POLYMERE

Title (fr)
COMPOSITIONS RENFERMANT DES ESTERS D'ACIDE PHOSPHORIQUE ET DES POLYMÈRES ANIONIQUES RÉTICULÉS, MODIFIÉS HYDROPHOBES

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Application
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Abstract (en)
[origin: DE102008006857A1] Composition comprises: anionic, cross-linked, hydrophobically modified polymers; and phosphoric acid ester comprising structural units derived from substances of component (a), where (a) is orthophosphoric acid and its derivatives, preferably poly phosphoric acid, tetraphosphorus decaoxide, phosphorous oxychloride or phosphorous pentachloride, and structural units derived from substances of component (b), where (b) is alkyl compound (I), optionally structural units derived from substances of component (c), where (c) is diols (II) and optionally structural units derived from polyol. Composition comprises: one or more anionic, cross-linked, hydrophobically modified polymers, where the hydrophobic modification takes place by a hydrocarbon residues, preferably by a 6-50, preferably 18-22C alkyl residue; and one or more phosphoric acid ester comprising one or more structural units derived from substances of the component (a), where (a) is an orthophosphoric acid and one or more of its derivatives, preferably poly phosphoric acid, tetraphosphorus decaoxide, phosphorous oxychloride or phosphorous pentachloride, and one or more structural units derived from substances of the component (b), where (b) is one or more alkyl compound of formula (R 1>-O-(CH 2CH 2O) u(C 3H 6O) v(D1O) w-H) (I), optionally one or more structural units derived from substances of the component (c), where (c) is one or more diols of formula (HO-(CH 2CH 2O) a(C 3H 6O) b(DO) c-H) (II) and optionally one or more structural units derived from a polyol with greater than 2 hydroxyl-groups. In formula (I): R 1>-saturated 6-30, preferably 12-18C alkyl, unsaturated 6-30, preferably 12-18C alkenyl or aryl, preferably phenyl (substituted by 1-3 branched alkyl having 3-18C, preferably 4-12C); D1 : saturated 4-20C alkylene, unsaturated 4-20C alkenylene or CH(aryl)CH 2, preferably CH(phenyl)CH 2; u : 0-200, preferably 10-50; and v, w : 0-100, preferably 0. where: the groups CH 2CH 2O, C 3H 6O and D1O in (I) is block-like or statistically distributed; and the sum of u+v+w is >= 10, preferably >= 30. In formula (II): a : 0-800, preferably 20-100; and b, c : 0-100, preferably 0. where: the sum of a+b+c is >= 1, preferably 5-150; and the groups CH 2CH 2O, C 3H 6O or D1O in (II) is block-like or statistically distributed.

IPC 8 full level
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