

Title (en)
MULTIFUNCTIONAL ADDITIVE COMPOSITION FOR COLD PROCESS TREATMENT OF MIDDLE DISTILLATES

Title (de)
ZUSAMMENSETZUNG VON MERHZWECKZUSÄTZEN ZUR KÄLTEVERWENDBARKEIT DER MITTELDESTILLATE

Title (fr)
COMPOSITION D'ADDITIFS MULTIFONCTIONNELS D'OPERABILITE A FROID DES DISTILLATS MOYENS

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Abstract (en)
[origin: US6623536B1] The invention concerns a composition of multifunctional additives for cold process treatment obtained by reacting carboxylic compounds with amine compounds, characterized in that it contains at least 50 wt. % of a mixture consisting of 10 to 90 wt. % of an additive (AB) of a carboxylic compound (A) selected among maleic and succinic anhydrides, corresponding acids and esters with a polyalkylamine (B) and 90 to 10 wt. % of an additive (CD) obtained by reacting a copolymer (C) obtained by reacting a first unsaturated carboxylic acid with an alkylated ester of a second unsaturated carboxylic acid, identical to or different from the first, of general formula (II) $R_1R_2C=CR_3COOR_4$ wherein R_1 and R_2 , identical or different, being hydrogen, a linear or branched C1-C20 alkyl radical; R_3 is hydrogen or a linear or branched alkyl group with not more than three carbon atoms and R_4 is hydrogen or a C1-C25 radical, with N-alkylpolyalkylenepolyamine (D).

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