

Title (en)
Process for producing a reaction product comprising a neutralisation step for alkylphenols and a carboxylation step for the obtained alkylphenate.

Title (de)
Verfahren zur Herstellung eines Reaktionsproduktes bestehend aus einer Neutralisationsstufe von Alkylphenolen und einer Karboxylierungsstufe der hergestellten Alkylphenate

Title (fr)
Procédé de préparation d'un produit de réaction comprenant une étape de neutralisation d'alkylphenols suivie d'une étape de carboxylation des alkylphénates obtenus

Publication
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Application
EP 97102055 A 19950314

Priority
• EP 95913194 A 19950314
• FR 9403138 A 19940317

Abstract (en)
[origin: EP0786448A2] New detergent-dispersant additives are obtd. by (A) neutralisation of alkylphenols contg. 35 - 85% (wt.) of linear 12-40 (pref. 18-30)C alkylphenols mixed with 15-65% (wt.) of branched-chain 9-24 (pref. 12) C alkyl phenols, with an alkaline earth base in the presence of 1-4C carboxylic acids, the operation being effected at at least 215 deg. C, with gradual application of vacuum to eliminate water of reaction in the absence of any solvent to form an azeotrope; (B) carboxylation of the alkyl phenate obtd. in (A) to transform at least 22% (pref. 25%) (moles) of the initial alkyl phenols to alkyl salicylates - using CO₂ gas at 180-240 pref. 190-220) deg. C at atmos. pressure to 15x10^{<5>} Pa (15 bars) for 1-8 hrs. - opt. in the presence of a dilution oil 100 N at the beginning or end of steps (A) or (B); (C) sulphurisation and over-basing of the mixt. of alkyl-phenates and -salicylates obtd. with elementary S in the presence of an alkaline earth base - a mono-alcohol of B, Pr, greater than 150 deg. C (pref. more than 175) and possibly an alkylene glycol (or alkyl ether deriv.) at 145-180 (pref. 150-160) deg. C.; (D) elimination of alkylene-glycol and mono-alcohol by distn.; (E) filtration to eliminate sediment; and (F) degassing to air at 80-160 (pref. 110-14) deg. C, until a grading of 1A on a copper strip (according to the ASTM D130 test) effected for 1 hr at 150 deg. C) was obtd.

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IPC 8 full level
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CPC (source: EP US)
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