

Title (en)

PROCESS FOR MANUFACTURING A POWDER WASHING OR CLEANING AGENT

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES PULVERFÖRMIGEN WASCH- ODER REINIGUNGSMITTELS

Title (fr)

PROCEDE DE FABRICATION D'UN DETERGENT OU NETTOYANT EN POUDRE

Publication

**EP 0815196 B1 19990811 (DE)**

Application

**EP 96906756 A 19960308**

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Abstract (en)

[origin: WO9629389A1] The invention concerns the production of compressed washing or cleaning agents of high apparent density: a pre-mixture of washing agent components containing anionic surfactants, non-ionic surfactants, builders, and (optionally) alkalisation agents is produced and compressed; more than 50 wt.% of the non-ionic surfactants are fatty acid alkylester alkoxylates of formula (I):  $R_{<1>-}CO_2-(AO)_m-R_{<2>-}$ , (II):  $R_{<2>-}CO_2-(AO)_m-R_{<1>-}$  or (III), in which:  $R_{<1>-}$  stands for a branched or straight-chain, saturated or unsaturated alkyl group with 5-21 carbon atoms;  $R_{<2>-}$  stands for hydrogen or a straight-chain or branched alkyl group with 1-6 carbon atoms;  $R_{<3>-}$ ,  $R_{<4>-}$  and  $R_{<5>-}$  can be identical or different and can stand for hydrogen or the group (a) shown, in which  $R_{<6>-}$  can be a branched or straight-chain, saturated or unsaturated alkyl group with 5-21 carbon atoms; (a condition is that  $R_{<3>-}$ ,  $R_{<4>-}$  and  $R_{<5>-}$  may not all be hydrogen); AO stands for a C2-C4 alkylene oxide unit; m, n, o and p can be identical or different and stand for a number between 1 and 60, preferably 1 and 30, in particular 3 and 12. The process yields washing and cleaning agents of high pouring density and good solubility, without any deterioration in washing power.

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IPC 8 full level

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