

Title (en)
POWDERY SURFACTANTS MIXTURE

Title (de)
PULVERFÖRMIGE TENSIDMISCHUNG

Title (fr)
MELANGE DE TENSIOACTIFS PULVERULENTS

Publication
EP 0642573 B1 19960619 (DE)

Application
EP 93909976 A 19930513

Priority
• DE 4216775 A 19920521
• EP 9301192 W 19930513

Abstract (en)
[origin: WO9323514A1] In order to obtain loose and pourable, non-lumping powdery products with a process for producing an alkylbenzene sulphonate-free mixture of powdery surfactants by drying aqueous suspensions of the ingredients, while avoiding the danger of spontaneous ignition, in particular of the spray-dried product, 10 to 40 parts by weight alkylglycoside having the formula: $R_1-O(G)_n$, in which R_1 represents an alkyl residue having 8 to 22 C atoms, G represents a glycoside unit and n is a number between 1 and 10; 5 to 20 parts by weight alkylsulphate having the formula: R_2-OSO_3X , in which R_2 represents an alkyl residue with 10 to 20 C atoms and X represents an alkali-, ammonium- or alkyl- resp. hydroxyalkyl-substituted ammonium ion; and 40 to 80 parts by weight of an inorganic excipient constituted by at least 10 % by weight alkali silicate are mixed with enough water to obtain a fluid mixture that can be pumped at temperatures below 80 C. The weight ratio between the alkylglycoside and the alkylsulphate is comprised between 5:1 and 1:2 and the molar ratio between the SiO_2 and the alkali oxide in the alkali silicate amounts to at least 2. The fluid and pumpable mixture is then dehydrated by spray-drying or in a fluidized bed or layer by means of drying gases at temperatures below 250 C. These products are used in particular as loose and pourable precursor mixtures for the production of particulate washing or cleaning agents.

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C11D 1/83; C11D 11/02

IPC 8 full level
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