

Title (en)  
POWDERY SURFACE-ACTIVE AGENT MIXTURE

Title (de)  
PULVERFÖRMIGE TENSIDMISCHUNG

Title (fr)  
MELANGE PULVERULENT D'AGENTS TENSIOACTIFS

Publication  
**EP 0614484 B1 19970409 (DE)**

Application  
**EP 92923773 A 19921123**

Priority  
• DE 4139551 A 19911130  
• EP 9202694 W 19921123

Abstract (en)  
[origin: WO9311212A1] A process for preparing powdery surface-active agent mixtures by spray drying aqueous suspensions of the ingredients should allow the normally used alkylbenzol-sulphonate to be replaced by alkylsulphate, without causing the spontaneous inflammation of the spray-dried goods but allowing pourable and flowable, non-clotting powdery products to be obtained. For that purpose, an amount comprised between 2 and 15 parts by weight alkylsulphate having the formula  $R^{?1}\text{-OSO}_3^?X$ , in which  $R^{?1}$  stands for an alkyl residue with 10 to 20 C atoms and X for an ammonium ion possibly substituted by alkali, ammonium, alkyl or hydroxyalkyl, an amount comprised between 1 and 5 parts by weight alkylglycoside having the formula  $R^{?2}\text{-O(G)n}^?$ , in which  $R^{?2}$  stands for an alkyl residue with 8 to 22 C atoms, G stands for a glucose unit and n is a number from 1 to 10, the weight ratio between alkylsulphate and alkylglycoside being comprised between 8:1 and 1:1, and an amount comprised between 20 and 100 parts by weight of an essentially anorganic, phosphate-free excipient containing alkali carbonate and alkali aluminosilicate in a weight ratio comprised between 2:1 and 1:3, are mixed with enough water to produce a flowable and pumpable mixture, which is then spray-dried using drying gasses at temperatures below 250 C until so much water is removed that a powdery, pourable product is obtained.

IPC 1-7  
**C11D 1/83**; **C11D 11/02**

IPC 8 full level  
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