

Title (en)

Aqueous stable suspensions of water insoluble silicates capable of binding calcium ions, and their use in the production of washing and cleaning compositions.

Title (de)

Wässrige stabile Suspension wasserunlöslicher, zum Binden von Calciumionen befähigter Silikate und deren Verwendung zur Herstellung von Wasch- und Reinigungsmitteln.

Title (fr)

Suspensions de silicates aqueuses stables insolubles dans l'eau capables de fixer des ions de calcium et leur utilisation pour la production d'agents de lavage et de nettoyage.

Publication

**EP 0294694 B1 19931110 (DE)**

Application

**EP 88108736 A 19880601**

Priority

- DE 3719042 A 19870606
- EP 88106557 A 19880423

Abstract (en)

[origin: EP0294694A2] Aqueous pumpable, stable suspensions of a silicate which is insoluble in water and is able to bind calcium ions contain, based on the total weight of the aqueous suspension, a) as silicate able to bind calcium 0.5 to 80 % by weight of a finely divided synthetic compound which contains bound water, is insoluble in water and has the general formula  $(\text{cat}^{2/n}\text{O})_x.\text{Me}_2\text{O}_3.(\text{SiO}_2)_y$  (I), where cat is a cation of valency n which can be replaced by calcium, x is a number from 0.7 to 1.5, Me is boron or aluminium and y is a number from 0.8 to 6, and b) as dispersing ingredient 0.5 to 6 % by weight of a mixture of at least two oxo alcohol ethoxylates of the formula  $\text{II R}-(\text{OCH}_2\text{CH}_2)_n\text{-OH}$ , where R is C10-C15-alkyl with a maximum degree of branching of 25 %, i.e. a maximum of 25 % of the fatty alcohol ethoxylate have a single methyl branch, n = 3 - 5.5 mol of EO in component 1 n = 5.75 - 7 mol of EO in component 2, and can be used to produce detergents and cleaners in powder form.

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**C11D 3/12**

IPC 8 full level

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CPC (source: EP)

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