

Title (en)  
COMPOSITIONS FOR TREATING HARD SURFACES

Title (de)  
MITTEL ZUR BEHANDLUNG HARTER OBERFLÄCHEN

Title (fr)  
AGENTS POUR LE TRAITEMENT DE SURFACES DURES

Publication  
**EP 2109664 B1 20101027 (DE)**

Application  
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Abstract (en)  
[origin: US2010056415A1] The invention relates to compositions for treating a hard surface, in particular for cleaning and/or dirt-repellent treatment of a hard surface, containing a) at least one multi-armed silyl polyalkoxylate of the formula (I)  $(H-A)_n-Z-[A-B-Si(OR_1)r(R_2)3-r]_m(I)$ , where Z is a  $(m+n)$ -valent radical having at least three carbon atoms, A is a divalent polyoxyalkylene radical, wherein the  $m+n$  polyoxyalkylene radicals bound to Z can be different from one another, and wherein one radical A is in each case bound to Z via an oxygen atom belonging to Z, and one oxygen atom belonging to A is bound to B or hydrogen, B is a chemical bond or a divalent organic radical having 1 to 50 carbon atoms, OR1 is a hydrolysable group, R1 and R2 independently of one another are a linear or branched alkyl group having 1 to 6 carbon atoms and r is an integer from 1 to 3, and m is an integer #1 and n is 0 or an integer #1, and  $m+n$  has a value from 3 to 100, b) at least one surfactant, c) water and/or at least one nonaqueous solvent, d) if appropriate further conventional components of surface treatment and/or cleaning compositions which are compatible with the remaining components of the composition.

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