

Title (en)

USE OF A COMBINATION OF IONIC AND NON-IONIC TENSIDES.

Title (de)

VERWENDUNG EINER KOMBINATION IONISCHER UND NICHTIONISCHER TENSIDE.

Title (fr)

UTILISATION D'UNE COMBINAISON DE TENSIO-ACTIFS IONIQUES ET NON IONIQUES.

Publication

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Application

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Abstract (en)

[origin: WO9117233A1] The present invention relates to the use of a combination of ionic and non-ionic tensides containing: (a) at least one quaternary ammonium compound of general formula (I):  $R^?1(-CHOH-CHR^?2)_n^+-N^?+R^?3R^?4R^?5 X^-$ , in which:  $R^?1$  is a linear or branched alkyl radical with 1 to 22 C atoms;  $R^?2$  is hydrogen or a linear or branched alkyl radical with 1 to 21 C atoms; whereby the total number of C atoms of substituents  $R^?1$  and  $R^?2$  is in the range of 10 to 22;  $n$  is 0 or 1;  $R^?3$  and  $R^?4$  are methyl, ethyl, 2-hydroxyethyl or hydroxypropyl;  $R^?5$  is alkyl radicals with 4 to 6 C atoms or phenalkyl radicals with 1 to 3 C atoms in the alkyl radical; and  $X^-$  is halide or the anion of an organic acid with 4 to 15 C atoms; and (b) at least one alk(en)yl-polyethylene glycol mixed ether of general formula (II):  $R^?6-O-(CH_2CH_2-O)_s-R^?7$ , in which:  $R^?6$  is a linear or branched alkyl or alkenyl radical with 6 to 18 C atoms or a cyclic alkyl radical with 5 to 6 C atoms;  $s$  is a number in the range from 2 to 5; and  $R^?7$  is a linear or branched alkyl radical with 1 to 8 C atoms or a benzyl radical; wherein the ratio of the weights of components (a) and (b) is in the range from 20:1 to 1:20; for cleaning hard surfaces.

IPC 1-7

**C11D 1/835**

IPC 8 full level

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