

Title (en)

LIQUID WASHING AND CLEANING COMPOSITION VIRTUALLY DEVOID OF INORGANIC BUILDER SALTS

Publication

**EP 0104434 A3 19851121 (DE)**

Application

**EP 83108321 A 19830824**

Priority

DE 3232616 A 19820902

Abstract (en)

[origin: US4608189A] Aqueous liquid laundering and cleaning detergent compositions, essentially free from inorganic builder salts, comprising: (a) 20-40 wt. % of a mixture of nonionic surfactants of the formula:  $\text{RO}[\text{CH}_2\text{-CH}(\text{CH}_3)\text{-O}]_m\text{-(CH}_2\text{-CH}_2\text{-O)}_n\text{-H}$  (I) where R is a C10-C20 aliphatic hydrocarbon group;  $m=1-5$ ;  $n=3-20$ ;  $n>m$ ; and the mixture is composed of: (i) 5-9 parts by weight of a Formula I compound where  $n=3-9$ , (ii) 1-5 parts by weight of a Formula I compound where  $n=10-20$ , and (iii) 0-6 parts by weight of a Formula I compound where  $m=1-3$ , and  $n=9-11$ ; (b) 2-25 wt. % of a sodium, potassium, mono-, di- or trialkanolamine soap of a C101-C20 fatty acid; (c) 0.001-2 wt. % of a proteolytic enzyme; and (d) 5-25 wt. % C214 C4 mono- or polyhydroxy alcohol; wherein (a) and (b) together are 30-50 wt. % of the composition, and a 1% aqueous solution thereof has a pH of 6.5-9.

IPC 1-7

**C11D 3/386**; **C11D 1/83**; **C11D 3/43**; **C11D 17/00**

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

[A] FR 2448568 A1 19800905 - UNILEVER NV [NL]

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