

Title (en)  
LIQUID DETERGENT COMPOSITIONS.

Title (de)  
FLÜSSIGE WASCHMITTELZUSAMMENSETZUNGEN.

Title (fr)  
COMPOSITIONS DETERGENTES LIQUIDES.

Publication  
**EP 0550636 B1 19950913 (EN)**

Application  
**EP 91918093 A 19910925**

Priority  
• GB 9021217 A 19900928  
• US 9106977 W 19910925

Abstract (en)  
[origin: WO9206171A1] Aqueous unbuilt liquid or gel-form detergent compositions are provided comprising, from 15 % to 65 % by weight of a core surfactant mixture, comprising from 5 % to 95 % by weight of the mixture of a water soluble anionic sulphate or sulphonate surfactant salt together and from 5 % to 95 % by weight of the mixture of one or more compounds of formula (I), wherein Z is a polyhydroxy hydrocarbyl moiety having a linear hydrocarbyl chain with at least three hydroxy groups connected directly to the chain, said moiety being derived from glucose and mixtures thereof with maltose, the maltose comprising not more than 33 % of the mixture, R is a C6-C16 hydrocarbyl radical and R1 is a C1-C4 alkyl or C2-C4 hydroxyalkyl group, a 0.12 % solution of the surfactant mixtures of the compositions having an interfacial tension (IFT) of less than 0.2 Pa.cm at 48 DEG C and a polypropylene cup (PPC) greasy soil removal value of at least 1.4 x that of the anionic surfactant component(s) alone. Preferred optional ingredients include amide, betaine and ethoxylated C9-C11 fatty alcohol suds modifiers.

IPC 1-7  
**C11D 17/00**; **C11D 1/65**; **C11D 1/52**; **C11D 3/32**

IPC 8 full level  
**C11D 1/52** (2006.01); **C11D 1/65** (2006.01); **C11D 1/66** (2006.01); **C11D 3/32** (2006.01); **C11D 17/00** (2006.01); **C11D 1/20** (2006.01); **C11D 1/29** (2006.01); **C11D 1/72** (2006.01); **C11D 1/75** (2006.01); **C11D 1/90** (2006.01); **C11D 1/92** (2006.01)

IPC 8 main group level  
**C11D** (2006.01)

CPC (source: EP)  
**C11D 1/525** (2013.01); **C11D 1/652** (2013.01); **C11D 1/662** (2013.01); **C11D 3/32** (2013.01); **C11D 17/003** (2013.01); **C11D 1/20** (2013.01); **C11D 1/29** (2013.01); **C11D 1/523** (2013.01); **C11D 1/72** (2013.01); **C11D 1/75** (2013.01); **C11D 1/90** (2013.01); **C11D 1/92** (2013.01)

Cited by  
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AT BE CH DE DK ES FR GB GR IT LI LU NL SE

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**WO 9206171 A1 19920416**; AR 244328 A1 19931029; AT E127834 T1 19950915; AU 664023 B2 19951102; AU 8735291 A 19920428; BR 9106935 A 19930817; CA 2092194 A1 19920329; CA 2092194 C 19961119; CN 1042236 C 19990224; CN 1062160 A 19920624; CO 4180440 A1 19950607; CZ 281716 B6 19961211; CZ 53393 A3 19941019; DE 69113055 D1 19951019; DE 69113055 T2 19960404; DK 0550636 T3 19960205; EG 19516 A 19950830; EP 0550636 A1 19930714; EP 0550636 B1 19950913; ES 2077247 T3 19951116; FI 931369 A0 19930326; FI 931369 A 19930426; GB 9021217 D0 19901114; GR 3017416 T3 19951231; HU 213448 B 19970630; HU 9300888 D0 19930728; HU T64390 A 19931228; IE 76141 B1 19971008; IE 913404 A1 19920408; IN 185274 B 20001216; JP 3007150 B2 20000207; JP H06501729 A 19940224; KR 100221444 B1 19990915; MA 22303 A1 19920401; MX 9101373 A 19920504; MY 108070 A 19960815; NO 931078 D0 19930324; NO 931078 L 19930527; NZ 240022 A 19950328; PT 99087 A 19920831; PT 99087 B 20010531; SK 25393 A3 19930707; TR 26013 A 19931101; TW 265361 B 19951211

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**US 9106977 W 19910925**; AR 32976591 A 19910927; AT 91918093 T 19910925; AU 8735291 A 19910925; BR 9106935 A 19910925; CA 2092194 A 19910925; CN 91109864 A 19910927; CO 92348065 A 19910926; CZ 53393 A 19910925; DE 69113055 T 19910925; DK 91918093 T 19910925; EG 57291 A 19910924; EP 91918093 A 19910925; ES 91918093 T 19910925; FI 931369 A 19930326; GB 9021217 A 19900928; GR 950402408 T 19950914; HU 88893 A 19910925; IE 340491 A 19910927; IN 913DE1991 A 19910926; JP 51700091 A 19910925; KR 930700912 A 19930325; MA 22586 A 19910927; MX 9101373 A 19910930; MY PI19911779 A 19910928; NO 931078 A 19930324; NZ 24002291 A 19910930; PT 9908791 A 19910926; SK 25393 A 19910925; TR 92191 A 19910927; TW 80105462 A 19910715