

Title (en)
LIGHT-DUTY DISHWASHING DETERGENT COMPOSITION CONTAINING AN ALKYL ETHOXY CARBOXYLATE SURFACTANT AND CALCIUM OR MAGNESIUM IONS

Title (de)
ALKYLETHOXYCARBOXYLATTENSID UND CALCIUM- ODER MAGNESIUMIONEN ENTHALTENDE MILDE GESCHIRRSPÜLWASCHMITTELZUSAMMENSETZUNG

Title (fr)
COMPOSITION DETERGENTE DOUCE POUR VAISSELLE CONTENANT UN TENSIOACTIF D'ETHOXYCARBOXYLATE D'ALKYLE ET DES IONS DE CALCIUM OU DE MAGNESIUM

Publication
EP 0557426 B1 19970305 (EN)

Application
EP 92900582 A 19911108

Priority
• US 9108280 W 19911108
• US 61453190 A 19901116
• US 61453290 A 19901116

Abstract (en)
[origin: WO9208777A1] A light-duty liquid or gel dishwashing detergent composition containing an alkyl ethoxy carboxylate surfactant mixture and calcium or magnesium ions. The compositions containing magnesium ions require a magnesium chelating agent, and a buffering agent to maintain the pH of the composition from about 8 to 10. Compositions containing calcium ions may require a calcium chelating agent, particularly at pH levels above 9, to prevent the formation of CaCO₃ precipitates during storage. The compositions exhibit good grease removal while manifesting mildness to the skin. The compositions also have good storage stability. A preferred type of dishwashing detergent composition is in the liquid form. High pH and calcium or magnesium ions of the compositions increase grease removal properties while maintaining mildness.

IPC 1-7
C11D 1/06; **C11D 1/83**; **C11D 10/04**; **C11D 17/00**

IPC 8 full level
C11D 1/06 (2006.01); **C11D 1/83** (2006.01); **C11D 10/04** (2006.01); **C11D 17/00** (2006.01); **C11D 17/04** (2006.01); **C11D 17/08** (2006.01); **C11D 1/02** (2006.01); **C11D 1/14** (2006.01); **C11D 1/22** (2006.01); **C11D 1/28** (2006.01); **C11D 1/29** (2006.01); **C11D 1/38** (2006.01); **C11D 1/52** (2006.01); **C11D 1/66** (2006.01); **C11D 1/72** (2006.01); **C11D 1/75** (2006.01); **C11D 1/90** (2006.01)

IPC 8 main group level
C11D (2006.01)

CPC (source: EP)
C11D 1/06 (2013.01); **C11D 1/83** (2013.01); **C11D 10/04** (2013.01); **C11D 10/042** (2013.01); **C11D 17/003** (2013.01); **C11D 1/02** (2013.01); **C11D 1/143** (2013.01); **C11D 1/146** (2013.01); **C11D 1/22** (2013.01); **C11D 1/28** (2013.01); **C11D 1/29** (2013.01); **C11D 1/38** (2013.01); **C11D 1/521** (2013.01); **C11D 1/525** (2013.01); **C11D 1/66** (2013.01); **C11D 1/662** (2013.01); **C11D 1/72** (2013.01); **C11D 1/75** (2013.01); **C11D 1/90** (2013.01)

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

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WO 9208777 A1 19920529; AR 244795 A1 19931130; AT E149561 T1 19970315; AU 9063991 A 19920611; BR 9106983 A 19930824; CN 1062371 A 19920701; CZ 87393 A3 19940713; DE 69125022 D1 19970410; DE 69125022 T2 19970925; DK 0557426 T3 19970901; EP 0557426 A1 19930901; EP 0557426 B1 19970305; ES 2101078 T3 19970701; FI 932199 A0 19930514; FI 932199 A 19930514; GR 3023502 T3 19970829; HU 9301418 D0 19930928; HU T64782 A 19940228; JP 3009464 B2 20000214; JP H06502884 A 19940331; MA 22342 A1 19920701; MX 9102078 A 19920601; MY 131210 A 20070731; NO 931738 D0 19930513; NO 931738 L 19930715; PT 99527 A 19920930; PT 99530 A 19920930; SK 48093 A3 19940112; TR 26532 A 19950315

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US 9108280 W 19911108; AR 32116591 A 19911115; AT 92900582 T 19911108; AU 9063991 A 19911108; BR 9106983 A 19911108; CN 91111874 A 19911116; CS 8739391 A 19911108; DE 69125022 T 19911108; DK 92900582 T 19911108; EP 92900582 A 19911108; ES 92900582 T 19911108; FI 932199 A 19930514; GR 970401152 T 19970520; HU 141893 A 19911108; JP 50225891 A 19911108; MA 22625 A 19911115; MX 9102078 A 19911115; MY PI9102116 A 19911115; NO 931738 A 19930513; PT 9952791 A 19911115; PT 9953091 A 19911115; SK 48093 A 19911108; TR 110391 A 19911115