

Title (en)  
Detergent composition

Title (de)  
Waschmittelzusammensetzung

Title (fr)  
Composition détergente

Publication  
**EP 0554943 B1 19980617 (EN)**

Application  
**EP 93200217 A 19930128**

Priority  
• EP 92302290 A 19920317  
• GB 9202237 A 19920203

Abstract (en)  
[origin: EP0554943A2] A chlorine bleach-free aqueous liquid machine dishwashing composition having solution pH 7-11 contains proteolytic enzyme, detergency builder, sodium silicate having SiO<sub>2</sub>:Na<sub>2</sub>O ratio of from 2.0-3.2 and organic surfactant which comprises (i) glycoside surfactant, (ii) anionic sulphate or sulphonate including a C8 to C22 alkyl or alkenyl group or (iii) ethoxylated C6 to C16 fatty alcohol with HLB of at least 10.5, or a mixture of (i), (ii) and/or (iii). If (iii) is used without (ii) it must be an ethoxylated C6 to C12 alcohol, or glycoside surfactant must also be present. Proteolytic enzyme plus the specified surfactant gives a synergistic improvement in removal of proteinaceous soil.

IPC 1-7  
**C11D 3/386**; **C11D 1/83**; **C11D 1/72**; **C11D 3/08**

IPC 8 full level  
**C11D 1/14** (2006.01); **C11D 1/22** (2006.01); **C11D 1/28** (2006.01); **C11D 1/66** (2006.01); **C11D 1/72** (2006.01); **C11D 3/08** (2006.01); **C11D 3/386** (2006.01); **C11D 3/39** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP)  
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Cited by  
US5705465A; EP0634480A1; EP0872541A3; US5695575A; AU727942B2; EP0755999A1; EP0756000A1; EP0756001A1; WO2011049945A2; EP2428572A2; US9040278B2; US9040279B2; US8507243B2; WO2004111170A1; WO9923036A1; WO2012123452A1; WO9713833A1; WO2012123450A1; WO9414941A1; WO9614374A1; WO9804239A3; WO9713832A1; US8323945B2; US8975056B2; US9090887B2

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CH DE ES FR GB IT LI NL SE

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