

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 SiO₂:Na₂O 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)
C11D 1/146 (2013.01); **C11D 1/22** (2013.01); **C11D 1/28** (2013.01); **C11D 1/662** (2013.01); **C11D 1/72** (2013.01); **C11D 3/08** (2013.01); **C11D 3/38618** (2013.01); **C11D 3/3947** (2013.01)

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

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