

Title (en)

Machine dishwashing detergent compositions

Title (de)

Waschmittelzusammensetzungen für Geschirrspülmaschinen

Title (fr)

Compositions détergentes pour le lavage en machine de la vaisselle

Publication

EP 0651052 B1 19980826 (EN)

Application

EP 93308800 A 19931103

Priority

EP 93308800 A 19931103

Abstract (en)

[origin: EP0651052A1] There is provided a particulate solid machine dishwashing detergent composition containing alkali metal percarbonate bleach coated with a mixed salt comprising an alkali metal carbonate and an alkali metal sulphate salt; a peroxyacid bleach precursor; an acidification agent; and a means for enabling delayed release of said acidification agent such that the pH of said composition as a 1% solution in water at 20°C is from 9.5 to 13.0 prior to release of said acidification agent, and such that the pH of said composition as a 1% solution in water at 20°C is from 9.3 to 7.0 subsequent to complete release of said acidification agent.

IPC 1-7

C11D 17/00; **C11D 3/00**; **C11D 3/39**

IPC 8 full level

C11D 3/02 (2006.01); **C11D 3/10** (2006.01); **C11D 3/20** (2006.01); **C11D 3/37** (2006.01); **C11D 3/39** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP)

C11D 3/046 (2013.01); **C11D 3/10** (2013.01); **C11D 3/2075** (2013.01); **C11D 3/2082** (2013.01); **C11D 3/2086** (2013.01); **C11D 3/3761** (2013.01); **C11D 3/3907** (2013.01); **C11D 3/3942** (2013.01); **C11D 17/0039** (2013.01)

Cited by

EP0851023A3; EP0851025A3; GB2367832A; GB2367832B; EP3409754A1; EP0710733A1; US5785896A; EP0851024A3; WO9853119A1; EP2216393A1; EP3181679A1; EP3998328A1; WO2010090915A1; WO2017105856A1; WO2022263332A1; EP0736085B2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 0651052 A1 19950503; **EP 0651052 B1 19980826**; AT E170215 T1 19980915; AU 8125394 A 19950523; DE 69320637 D1 19981001; DE 69320637 T2 19990422; ES 2121955 T3 19981216; WO 9512657 A1 19950511

DOCDB simple family (application)

EP 93308800 A 19931103; AT 93308800 T 19931103; AU 8125394 A 19941021; DE 69320637 T 19931103; ES 93308800 T 19931103; US 9412246 W 19941021