

Title (en)

Linear viscoelastic aqueous liquid automatic dishwasher detergent composition.

Title (de)

Lineares, viscoelastisches, wässriges, flüssiges Waschmittel für Geschirrspülautomaten.

Title (fr)

Composition détergente aqueuse, liquide, viscoélastique pour le lavage de la vaisselle en machine.

Publication

EP 0517311 A1 19921209 (EN)

Application

EP 92201529 A 19920527

Priority

- US 71160391 A 19910607
- US 71160591 A 19910607
- US 71160891 A 19910607
- US 71168891 A 19910607
- US 72506791 A 19910705
- US 72608991 A 19910705
- US 72643891 A 19910705
- US 73850991 A 19910801
- US 78956591 A 19911108

Abstract (en)

Automatic dishwasher detergent composition is formulated as a linear viscoelastic, pseudoplastic, gel-like aqueous product of exceptionally good physical stability, low bottle residue, low cup leakage, and improved cleaning performance. Linear viscoelasticity and pseudoplastic behavior is attributed by incorporation of cross-linked high molecular weight polyacrylic acid type thickener. Potassium to sodium weight ratios of at least 1/2 minimize amount of undissolved solid particles to further contribute to stability and pourability. Control of incorporated air bubbles functions to provide the product with a bulk density of 1.35 to 1.40 g/cc which roughly corresponds to the density of the liquid phase. Stearic acid or other fatty acid or salt further improve physical stability.

IPC 1-7

C11D 3/37; **C11D 3/395**; **C11D 17/00**

IPC 8 full level

C11D 1/04 (2006.01); **C11D 3/37** (2006.01); **C11D 3/395** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP)

C11D 1/04 (2013.01); **C11D 3/3765** (2013.01); **C11D 3/3956** (2013.01); **C11D 3/3958** (2013.01); **C11D 17/003** (2013.01)

Citation (applicant)

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