

Title (en)

PHOSPHATE-FREE AUTOMATIC DISHWASHING DETERGENT COMPOSITION

Title (de)

PHOSPHATFREIE SPÜLMITTELZUSAMMENSETZUNG FÜR GESCHIRRSPÜLAUTOMAT

Title (fr)

COMPOSITION DE DÉTERGENT DE LAVE-VAISSELLE AUTOMATIQUE SANS PHOSPHATE

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Application

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Abstract (en)

[origin: WO2018206812A1] The invention relates to an automatic dishwashing detergent composition consisting of: · 20-80 wt.% of builder; · 5-25 wt.% of bleach component; · 1-10 wt.% of a graft copolymer having a polysaccharide backbone and one or more side chains of one or more synthetic monomeric units; · 1-15 wt.% nonionic surfactant; · 0-60 wt.% of one or more other detergent ingredients; wherein the graft copolymer and the builder are present in a weight ratio of copolymer to builder of 1:50 to 1:4; and wherein the builder contains at least 20% citrate by weight of the builder and at least 25% carbonate by weight of the builder, and the builder is composed of: a) not more than 70 wt.% of a hydroxycarboxylate sequestering builder selected from citrate, tartrate, gluconate and combinations thereof; b) not more than 80 wt.% of precipitating builder selected from carbonate, silicate and combinations thereof; c) 0-25 wt.% of one or more other builders; wherein citrate and carbonate together constitute at least 50 wt.% of the builder; and wherein citrate and carbonate are present in a molar ratio of citrate : carbonate of 0.1 to 1.0. The ADW detergent composition of the present invention produces very good cleaning results with minimal spotting and film-forming. The detergent composition also offers the advantage that it is less prone to give rise to glassware corrosion.

IPC 8 full level

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