

Title (en)
Dishwasher detergent composition.

Title (de)
Waschmittelzusammensetzung für Geschirrspülmaschinen.

Title (fr)
Composition détergente pour le lavage de la vaisselle en machine.

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Application
EP 91306960 A 19910730

Priority
US 56106090 A 19900801

Abstract (en)
A liquid dishwasher detergent emulsion provided by this invention has high alkalinity, high levels of sequestrant and high temperature stability. The detergent emulsion comprises: i) 4 to 25% w/w of an alkali metal hydroxide suitable for use in a dishwasher; ii) 0.2 to 5% w/w of a low foaming free non-ionic surfactant; iii) 0.5 to 3% w/w of a polyacrylic acid suitable for enhancing sheeting action on non-porous surfaces; iv) 15 to 30% w/w of a potassium polyphosphate sequestering composition enriched in tripolyphosphate and comprising minimal amounts of ortho and long forms of polyphosphates to facilitate thereby solubility of said potassium polyphosphate in water; v) 2 to 6% w/w of a polymeric emulsion stabilizer for said free nonionic surfactant, the polymeric emulsion stabilizer being a chemically associated polycarboxylic acid polymer and a nonionic surfactant formed by polymerization of said nonionic surfactant with a polymerizable reactant selected from the group consisting of acrylic acid, polyacrylic acid, copolymers of acrylic acid and an ethylenically unsaturated polycarboxylic acid or an anhydride thereof, copolymers of ethylenically unsaturated polycarboxylic acid or anhydride thereof with a non-carboxy containing ethylenically unsaturated monomer, said nonionic surfactant and said reactant being polymerized in an aqueous media; vi) 0 to 15% w/w of a sequestering agent to enhance hard water sequestering characteristics of said potassium polyphosphate; and vii) water to make up the balance of composition to 100% w/w.

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