

Title (en)
LOW PH LAUNDRY DETERGENT COMPOSITION

Title (de)
WASCHMITTELZUSAMMENSETZUNG MIT NIEDRIGEM PH

Title (fr)
COMPOSITION DE DÉTERGENT POUR LESSIVE À BAS PH

Publication
EP 3301146 A1 20180404 (EN)

Application
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Priority
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Abstract (en)
The present invention relates to a solid free flowing particulate laundry detergent composition comprising: (a) anionic deterative surfactant; (b) from 0wt% to 8wt% zeolite builder; (c) from 0wt% to 4wt% phosphate builder; (d) from 0wt% to 8wt% sodium carbonate; (e) from 0wt% to 8wt% sodium silicate; (f) from 4wt% to 20wt% organic acid, (g) from 1wt% to 20wt% sodium percarbonate; (h) from 0.5wt% to 5wt% bleach activator; and (i) from 0.5wt% to 4wt% disodium 4,5-dihydroxy-1,3-benzenedisulfonate (Tiron) chelant, wherein the composition at 1wt% dilution in deionized water at 20°C, has an equilibrium pH in the range of from 6.5 to 9.0, wherein the composition comprises from 30wt% to 90wt% base detergent particle, wherein the base detergent particle comprising (by weight of the base detergent particle): (a) from 4wt% to 35wt% anionic deterative surfactant; (b) optionally, from 1wt% to 8wt% zeolite builder; (c) from 0wt% to 4wt% phosphate builder; (d) from 0wt% to 8wt% sodium carbonate; (e) from 0wt% to 8wt% sodium silicate; (f) from 1wt% to 16wt% organic acid; and (g) optionally, from 1wt% to 10wt% magnesium sulphate.

IPC 8 full level
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Citation (search report)
• [IAY] WO 03038028 A2 20030508 - HENKEL KGAA [DE], et al
• [IA] WO 9512658 A1 19950511 - PROCTER & GAMBLE [US], et al
• [IA] WO 9117232 A1 19911114 - PROCTER & GAMBLE [US]
• [IA] WO 2013036662 A1 20130314 - SUN PRODUCTS CORP [US], et al
• [I] WO 2015169851 A1 20151112 - BASF SE [DE], et al
• [I] WO 2013184981 A2 20131212 - PROCTER & GAMBLE [US]
• [Y] WO 2013043855 A2 20130328 - PROCTER & GAMBLE [US]

Cited by
US2023039859A1; US10501711B2; US11332701B2; US10550357B2

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