

Title (en)

GRANULAR DETERGENT COMPOSITIONS CONTAINING DEFLOCCULATING POLYMERS

Title (de)

GRANULARE WASCHMITTELZUSAMMENSETZUNGEN MIT ENTFLOCKENDEN POLYMERTEILCHEN

Title (fr)

PREPARATIONS DETERGENTES GRANULAIRES CONTENANT DES POLYMERES DEFLOCULANT

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Application

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Abstract (en)

[origin: WO9617919A1] The present invention provides for concentrated, granular detergent compositions comprising a mixture of: a) from about 15 to 50 % by weight of a surfactant; b) at least one detergent builder; c) from about 0.01 to about 7.5 % by weight of a deflocculating polymer composition containing polymer chains of the structure P-QR, wherein P represents a polymer chain segment of a hydrophilic polymer, and QR represents a hydrophobic end-cap group wherein R is an organic hydrophobic radical containing from about 4 to 28 carbon atoms, and Q is selected from the group consisting of O, CO₂, S, SO, SO₂, NR', PO₄R, PO₃R', Si OR'R'', Si R'R'', CR'OH, CR'R'' and CR'OR'' wherein R' and R'' are each hydrogen, and alkyl group containing from 1 to 4 carbon atoms or an aryl group; and d) water. The addition of the deflocculating polymer to a crutcher slurry prior to drying the slurry retards the propensity of the lamellar surfactant droplets dispersed in the slurry to flocculate, particularly where the droplets occupy a higher volume ration as the result of high concentrations of surfactant present in the detergent. The resultant slurry exhibits a significantly reduced viscosity which renders it more readily pumpable in a spray drying process.

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