

Title (en)
GRANULAR CARBONATE AND SILICATE-CONTAINING COMPOSITIONS

Title (de)
GRANULÄRE CARBONAT- UND SILIKATHALTIGEN ZUSAMMENSETZUNGEN

Title (fr)
COMPOSITIONS GRANULAIRES CONTENANT DU CARBONATE ET DU SILICATE

Publication
EP 1387881 A1 20040211 (EN)

Application
EP 02716953 A 20020423

Priority

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Abstract (en)
[origin: WO02090487A1] A composition for use as a builder in detergent compositions comprises a granular material containing an alkali metal silicate and an alkali metal carbonate characterised in that the alkali metal silicate has a molar ratio, SiO₂ to M₂O, where M is an alkali metal, in the range 2.4 : 1 to 3.0 : 1, the amount of silicate in the granules, calculated as SiO₂, is at least 30 per cent by weight, the amount of alkali metal carbonate in the granules, expressed as anhydrous material, is less than 35 per cent by weight and the amount of water in the granules is less than 25 per cent by weight. A preferred process for manufacture of such compositions comprises the steps of (a) preparing an aqueous mixture of an alkali metal silicate and an alkali metal carbonate, (b) spray-drying said aqueous mixture and (c) compacting the spray-dried powder thereby produced to form granules of said composition. In an alternative process the aqueous mixture of silicate and carbonate is dried and optionally granulated in a drum containing a multiplicity of rotating arms and into which a heated gas is introduced.

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