

Title (en)

ALKALINE HYDROXIDE-FREE COMPOUND IN MELTED BLOCK FORM FOR MACHINE DISH-WASHING, AND PROCESS FOR ITS PREPARATION

Publication

**EP 0203524 B1 19910814 (DE)**

Application

**EP 86106943 A 19860522**

Priority

DE 3519354 A 19850530

Abstract (en)

[origin: US4690770A] A block-form detergent free of alkali metal hydroxides for use in dishwashing machines which contain from 65 to 85% by weight to a mixture of anhydrous sodium metasilicate and anhydrous pentasodium triphosphate in a ratio of from 1:1 to 1:2 and from 0.2 to 4% by weight of uniformly distributed active chlorine donors which are, for example, trichloroisocyanuric acid. The production process comprises heating sodium metasilicate to 45 DEG to 55 DEG C. to obtain a clear melt and then adding other constituents, the pentasodium triphosphate and the active chlorine donor being added last, and pouring the melt into flexible molds in which it is left to solidify into blocks. The detergents are stable for storage with good dissolving power.

IPC 1-7

**C11D 3/395**; **C11D 17/00**

IPC 8 full level

**C11D 3/395** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP US)

**C11D 3/3958** (2013.01 - EP US); **C11D 17/0052** (2013.01 - EP US)

Cited by

EP0245760A3; CN1055494C; EP0361380A3; JPS6451498A

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI NL

DOCDB simple family (publication)

**EP 0203524 A2 19861203**; **EP 0203524 A3 19880323**; **EP 0203524 B1 19910814**; AT E66246 T1 19910815; DE 3519354 A1 19861204; DE 3680823 D1 19910919; US 4690770 A 19870901

DOCDB simple family (application)

**EP 86106943 A 19860522**; AT 86106943 T 19860522; DE 3519354 A 19850530; DE 3680823 T 19860522; US 86891386 A 19860529