

Title (en)

LIQUID CLEANING CONCENTRATE

Title (de)

FLÜSSIGES REINIGUNGSKONZENTRAT

Title (fr)

CONCENTRÉ DE NETTOYAGE LIQUIDE

Publication

**EP 3156475 A1 20170419 (DE)**

Application

**EP 15190193 A 20151016**

Priority

EP 15190193 A 20151016

Abstract (en)

[origin: CA3001652A1] The invention relates to a cleaning concentrate comprising (i) 22 - 46 wt.% alkali metal hydroxide, (ii) 5 - 50 wt.% dispersing agent, complexing agent or a combination thereof, (iii) 0 - 5 wt.% surfactant, (iv) 0 - 5 wt.% auxiliary agents, and (v) 28 - 39 wt. % water, said cleaning concentrate being a suspension. The invention also relates a method for the production thereof.

Abstract (de)

Reinigungskonzentrat, umfassend (i) 22 bis 46 Gew.-% Alkalimetallhydroxid, (ii) 5 bis 50 Gew.-% Dispergiermittel, Komplexbildner oder eine Kombination daraus, (iii) 0 bis 5 Gew.-% Tensid, (iv) 0 bis 5 Gew.-% Hilfsstoffe, und (v) 28 bis 39 Gew.-% Wasser, wobei das Reinigungskonzentrat eine Suspension ist; sowie Herstellungsverfahren hierfür.

IPC 8 full level

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Citation (applicant)

- DE 19906660 A1 20000127 - HAKA KUNZ GMBH [DE]
- EP 1181346 A1 20020227 - HENKEL KGAA [DE]
- DE 10002710 A1 20010802 - HENKEL ECOLAB GMBH & CO OHG [DE]
- DE 10002710 A1 20010802 - HENKEL ECOLAB GMBH & CO OHG [DE]
- DE 10002710 A1 20010802 - HENKEL ECOLAB GMBH & CO OHG [DE]

Citation (search report)

- [XDI] DE 10002710 A1 20010802 - HENKEL ECOLAB GMBH & CO OHG [DE]
- [I] WO 9627653 A1 19960912 - HENKEL ECOLAB GMBH & CO OHG [DE], et al
- [AD] DE 19906660 A1 20000127 - HAKA KUNZ GMBH [DE]

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CL 2018000964 A1 20180907; CN 108350398 A 20180731; CN 108350398 B 20210316; CO 2018004021 A2 20180719;  
EA 201890976 A1 20180928; ES 2685655 T3 20181010; HR P20181256 T1 20181005; HU E038978 T2 20181228; IL 258739 A 20180628;  
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MX 2018004608 A 20161014; PL 15190193 T 20151016; PT 15190193 T 20151016; RS P20181018 A 20151016; SA 518391361 A 20180415;  
SI 201530378 T 20151016; TR 201812405 T 20151016; US 201615768770 A 20161014