

Title (en)

LIQUID HAND DISHWASH FORMULATION COMPRISING FATTY ACIDS AND POLYMER

Title (de)

FLÜSSIGE HANDGESCHIRRSPÜLFÖRMULIERUNG MIT FETTSÄUREN UND POLYMER

Title (fr)

FORMULATION LIQUIDE DE LAVAGE DE LA VAISSELLE À LA MAIN COMPRENANT DES ACIDES GRAS ET POLYMÈRE

Publication

**EP 3898914 B1 20220323 (EN)**

Application

**EP 19813570 A 20191209**

Priority

- EP 18213088 A 20181217
- EP 2019084162 W 20191209

Abstract (en)

[origin: WO2020126592A1] The present invention is in the field of hard surface cleaning compositions, in particular liquid detergent compositions with improved emulsification and oily soil removal of hard surfaces, such as tableware. Accordingly, the invention relates to a liquid detergent composition comprising a. from 8 to 30 wt% of a surfactant system comprising: i. a primary surfactant of the formula  $R_1-(OR')_n-O-SO_3^-M^+$ , wherein:  $R_1$  is saturated or unsaturated C8-C16 alkyl chain;  $R'$  is ethylene;  $n$  is from 1 to 18;  $M^+$  is a suitable cation which provides charge neutrality selected from sodium, calcium, potassium and magnesium; and ii. at least one secondary surfactant selected from amphoteric surfactants, alkyl sulphates, alkylbenzene sulphonate and derivatives; b. from 0.001 to 0.2 wt% of polyethylene oxide having molecular weight higher than 200,000 g/mol, c. from 0.05 to 2 wt% of fatty acids comprising a saturated hydroxy fatty acids having 8 to 18 carbon atoms, saturated non-hydroxy fatty acids having 8 to 18 carbon atoms, or mixtures thereof; d. 0.1 to 5% by weight of an inorganic salt selected from the group consisting of sodium chloride, magnesium sulfate, sodium sulfate and combinations thereof; and e. water. The invention further relates to method of cleaning a hard surface using the composition of the invention, as well as the use thereof.

IPC 8 full level

**C11D 1/29** (2006.01); **C11D 1/83** (2006.01); **C11D 1/94** (2006.01)

CPC (source: EP)

**C11D 1/29** (2013.01); **C11D 1/652** (2013.01); **C11D 1/83** (2013.01); **C11D 1/94** (2013.01); **C11D 3/046** (2013.01); **C11D 3/2086** (2013.01); **C11D 3/3707** (2013.01); **C11D 1/146** (2013.01); **C11D 1/22** (2013.01); **C11D 1/523** (2013.01); **C11D 1/72** (2013.01); **C11D 1/75** (2013.01); **C11D 1/90** (2013.01)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2020126592 A1 20200625**; AR 117349 A1 20210728; BR 112021011742 A2 20210831; CL 2021001496 A1 20220401; CN 113242902 A 20210810; CN 113242902 B 20230516; EP 3898914 A1 20211027; EP 3898914 B1 20220323; ZA 202103827 B 20230125

DOCDB simple family (application)

**EP 2019084162 W 20191209**; AR P190103709 A 20191217; BR 112021011742 A 20191209; CL 2021001496 A 20210608; CN 201980083402 A 20191209; EP 19813570 A 20191209; ZA 202103827 A 20210603