

Title (en)

DETERGENT COMPOSITIONS CONTAINING LOW CONCENTRATION LEVELS OF GEMINI SURFACTANTS

Title (de)

WASCHMITTELZUSAMMENSETZUNGEN MIT GERINGER KONZENTRATION AN GEMINITENSIDEN

Title (fr)

COMPOSITIONS DETERGENTES CONTENANT DES NIVEAUX DE CONCENTRATION FAIBLES DE TENSIOACTIFS JUMELES

Publication

EP 0948393 A1 19991013 (EN)

Application

EP 97942138 A 19971006

Priority

- IB 9701230 W 19971006
- US 72643996 A 19961004

Abstract (en)

[origin: WO9815345A1] Aqueous surfactant compositions containing low concentrations of surfactant actives are provided comprising a surfactant mixture with one or more gemini surfactants. The aqueous composition containing a total amount of surfactant based on active weight equal to or less than 0.01 % by weight based on the total weight of the composition. The gemini surfactants comprise from about 10 % to about 100 % by weight of the total surfactant active weight in aqueous composition.

IPC 1-7

B01F 17/00; **C11D 1/04**; **C11D 1/12**; **C11D 1/34**

IPC 8 full level

C09K 23/00 (2022.01); **C11D 1/40** (2006.01); **C11D 1/52** (2006.01); **C11D 1/72** (2006.01); **C11D 1/722** (2006.01)

CPC (source: EP US)

C09K 23/00 (2022.01 - EP); **C09K 23/14** (2022.01 - EP); **C09K 23/18** (2022.01 - EP US); **C09K 23/42** (2022.01 - EP US); **C11D 1/40** (2013.01 - EP); **C11D 1/528** (2013.01 - EP); **C11D 1/72** (2013.01 - EP); **C11D 1/722** (2013.01 - EP)

Citation (search report)

See references of WO 9815345A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9815345 A1 19980416; AU 4393097 A 19980505; EP 0948393 A1 19991013

DOCDB simple family (application)

IB 9701230 W 19971006; AU 4393097 A 19971006; EP 97942138 A 19971006