

Title (en)
MGDA-BASED POWDER MIXTURE OR GRANULATE MIXTURE

Title (de)
MISCHPULVER ODER MISCHGRANULAT AUF BASIS VON MGDA

Title (fr)
M LANGE DE POUDRES OU DE GRANUL S À BASE DE MGDA

Publication
EP 1765967 B1 20180425 (DE)

Application
EP 05756996 A 20050701

Priority
• EP 2005007132 W 20050701
• DE 102004032320 A 20040702

Abstract (en)
[origin: WO2006002954A1] Disclosed is a powder mixture or granulate mixture containing at least 80 percent by weight of a mixture of (a) 5 to 95 wt. % of at least one glycine-N,N-diacetic acid derivative of general formula (I) $\text{MOOC-CHR-N(CH}_2\text{COOM)}_2$ (I), wherein R represents C_{1-12} alkyl and M represents alkali metal, and (b) 5 to 95 wt. % of at least one polyethylene glycol, at least one nonionic surfactant, a mixture thereof, or a polymer selected among the group comprising polyvinyl alcohols, polyvinylpyrrolidones (PVP), polyalkylene glycols, and derivatives thereof. Also disclosed are methods for producing said powder mixtures or granulate mixtures, the use thereof, and a solid detergent and a solid dishwashing substance containing the inventive powder mixture or granulate mixture.

IPC 8 full level
C11D 3/33 (2006.01); **C11D 3/37** (2006.01)

CPC (source: EP KR US)
C11D 1/66 (2013.01 - EP US); **C11D 1/72** (2013.01 - EP KR US); **C11D 1/825** (2013.01 - EP KR US); **C11D 3/33** (2013.01 - EP KR US); **C11D 3/3707** (2013.01 - EP KR US); **C11D 3/3753** (2013.01 - EP KR US); **C11D 3/3776** (2013.01 - EP KR US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102004032320 A1 20060119; AU 2005259456 A1 20060112; AU 2005259456 B2 20101028; BR PI0512778 A 20080408; BR PI0512778 B1 20190402; BR PI0512778 B8 20191119; CA 2572311 A1 20060112; CA 2572311 C 20130226; CN 1977036 A 20070606; CN 1977036 B 20100616; EP 1765967 A1 20070328; EP 1765967 B1 20180425; ES 2676526 T3 20180720; JP 2008505236 A 20080221; KR 101117367 B1 20120307; KR 20070036164 A 20070402; MX PA06014753 A 20070323; NO 20070375 L 20070130; PL 1765967 T3 20180928; TR 201810622 T4 20180827; US 2008045430 A1 20080221; US 8048838 B2 20111101; WO 2006002954 A1 20060112

DOCDB simple family (application)
DE 102004032320 A 20040702; AU 2005259456 A 20050701; BR PI0512778 A 20050701; CA 2572311 A 20050701; CN 200580022038 A 20050701; EP 05756996 A 20050701; EP 2005007132 W 20050701; ES 05756996 T 20050701; JP 2007519690 A 20050701; KR 20077002508 A 20050701; MX PA06014753 A 20050701; NO 20070375 A 20070119; PL 05756996 T 20050701; TR 201810622 T 20050701; US 57136205 A 20050701