

Title (en)

DETERGENTS WITH ACTIVATOR COMPLEXES FOR PEROXY COMPOUNDS

Title (de)

REINIGUNGSMITTEL MIT AKTIVATORKOMPLEXEN FÜR PERSAUERSTOFFVERBINDUNGEN

Title (fr)

DETERGENTS A COMPLEXES ACTIVEURS POUR COMPOSES PEROXYDE

Publication

**EP 0846156 A1 19980610 (DE)**

Application

**EP 96927691 A 19960806**

Priority

- DE 19529904 A 19950815
- EP 9603465 W 19960806

Abstract (en)

[origin: DE19529904A1] Used as activators for peroxy compounds in cleaning solutions for hard surfaces, especially for dishes, are transition metal complexes of formula (I) wherein UM is manganese, iron, cobalt, ruthenium or molybdenum; R is an alkylene, alkenylene, phenylene or cycloalkylene radical, which in addition to substituent X can optionally be alkyl- and/or aryl-substituted, with a total of 1 to 12 C atoms, where within R the shortest distance between the N atoms complexing with UM is 1 to 5 atoms; X is -H, -OR<3>, -NO<sub>2</sub>, -F, -Cl, -Br or -J; R<1>, R<2> and R<3>, independently of one another, are hydrogen or an alkyl radical with 1 to 4 C atoms; Y<1> and Y<2>, independently of each other, are hydrogen or an electron-displacing substituent; Z<1> and Z<2>, independently of each other, are hydrogen, -CO<sub>2</sub>M, -SO<sub>3</sub>M or -NO<sub>2</sub>; M is hydrogen or an alkali metal such as lithium, sodium or potassium, and A is a charge-balancing anionic ligand. Dishwashing detergents contain preferably 0.005 to 0.1 wt % of such activator complexes.

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**C11D 3/39**

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