

Title (en)
PHENYLENE MONO- AND DIESTER PERACID PERCURSORS

Publication
EP 0185522 A3 19870701 (EN)

Application
EP 85309075 A 19851212

Priority
US 68198384 A 19841214

Abstract (en)
[origin: EP0185522A2] The invention provides novel peracid precursors representative of which is the structure: <CHEM> wherein R<1> is alkyl of 1 to 20 carbon atoms; R<2> is OH, -O-R<3>, or -O-@-R<4>; and X<1>, X<2>, Y and Z are individually selected from H, SO₃, CO₂, NO₂, NR_{5_4}; halogen, R<6> and mixtures thereof: wherein R<3> of -O-R<3> is alkyl of 1 to 20 carbon atoms; R<4> of -O-@-R<4> is alkyl of 1 to 20 carbon atoms; R<5> of NR_{5_4} is selected from H, alkyl of 1 to 24 carbon atoms and mixtures thereof; and R<6> is alkyl of 1 to 20 carbon atoms. In one embodiment of the invention, the novel peracid precursors are combined with a source of hydrogen peroxide and sufficient quantities of buffer to impart an alkaline pH when the composition is placed in aqueous solution. Preferred embodiments of the invention include wherein R<2> is hydroxy, and R<1> is alkyl of 1 to 20 carbon atoms (monoester); and wherein R<2> is -O-@-R<4>, and R<1> and R<4> are alkyls of 1 to 20 carbon atoms (diester) and may be either symmetrical (i.e., R<1>=R<4>) or mixed (i.e., R<1> NOTEQUAL R<4>). The mixed diester embodiment appears to provide benefits of mixed hydrophobic-hydrophilic peracid generation to oxidize both hydrophobic and hydrophilic soils. Various detergent adjuncts known to those skilled in the art may be added, such as surfactants, builders, fragrances, antimicrobial compounds and the like.

IPC 1-7
C07C 69/28; C07C 67/08; C11D 3/39

IPC 8 full level
C11D 3/39 (2006.01)

CPC (source: EP)
C11D 3/3907 (2013.01)

Citation (search report)

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Designated contracting state (EPC)
BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0185522 A2 19860625; EP 0185522 A3 19870701; EP 0185522 B1 19901107; CA 1270717 A 19900626; DE 3580460 D1 19901213; ES 550880 A0 19880301; ES 557775 A0 19880901; ES 8801893 A1 19880301; ES 8802581 A1 19880901; TR 22733 A 19880524

DOCDB simple family (application)
EP 85309075 A 19851212; CA 497390 A 19851211; DE 3580460 T 19851212; ES 550880 A 19851213; ES 557775 A 19871016; TR 4950285 A 19851210