

Title (en)
POLYNITRILE OXIDES

Title (de)
POLYNITRILOXIDE

Title (fr)
OXYDES DE POLYNITRILE

Publication
EP 0842147 A2 19980520 (EN)

Application
EP 96924413 A 19960710

Priority
• US 9611499 W 19960710
• US 101895 P 19950710

Abstract (en)
[origin: WO9703034A2] The present invention is an aqueous dispersion of a stable polynitrile oxide represented by the structure: $R-(C=N-O\leftrightarrow)_x$, where x is an integer greater than 1, R is an aromatic, aliphatic, or cycloaliphatic group having at least one substituent adjacent to each nitrile oxide group, the substituent characterized by inhibiting dimerization of nitrile oxide, and being non-interfering with a reaction between nitrile oxide groups and unsaturated groups. The present invention is also a method of curing a latex having a polyunsaturated disperse phase, comprising the steps of: a) mixing the latex with a stable polynitrile oxide; and b) removing water from the mixture. The present invention provides a simple means of preparing one-part coating systems that can be cured at room temperature without the release of by-products.

IPC 1-7
C07C 291/06; **C07C 317/32**

IPC 8 full level
C07C 291/06 (2006.01); **C07C 317/44** (2006.01); **C07D 261/04** (2006.01)

CPC (source: EP)
C07C 291/06 (2013.01); **C07C 317/44** (2013.01); **C07D 261/04** (2013.01); **C07C 2603/24** (2017.04)

Citation (search report)
See references of WO 9703034A2

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

DOCDB simple family (publication)
WO 9703034 A2 19970130; **WO 9703034 A3 19970313**; AU 6487696 A 19970210; AU 709961 B2 19990909; BR 9609523 A 20011113; CA 2226849 A1 19970130; EP 0842147 A2 19980520

DOCDB simple family (application)
US 9611499 W 19960710; AU 6487696 A 19960710; BR 9609523 A 19960710; CA 2226849 A 19960710; EP 96924413 A 19960710