

Title (en)  
POLYNITRILE OXIDES

Title (de)  
POLYNITRILOXIDE

Title (fr)  
OXYDES DE POLYNITRILE

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Application  
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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.

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