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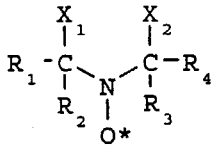
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(54) Title: INHIBITION OF POLYMERIZATION OF UNSATURATED MONOMERS



(I)

(57) Abstract: Disclosed herein is a method for inhibiting the premature polymerization of ethylenically unsaturated monomers comprising adding to said monomers an effective amount of a mixture comprising at least two different inhibitors having structural formula ((I). In this formula, R_1 and R_4 are independently selected from the group consisting of hydrogen, alkyl, and heteroatom-substituted alkyl and R_2 and R_3 are independently selected from the group consisting of alkyl and heteroatom-substituted alkyl; and X_1 and X_2 (1) are independently selected from the group consisting of halogen, cyano, $COOR_{11}$ (wherein R_{11} is alkyl or aryl) amido, $-S-C_6H_5$, $-S-COCH_3$, $-OCOC_2H_5$, carbonyl, alkenyl (where the double bond is not conjugated with the nitroxide moiety), or alkyl of 1 to 15 carbon atoms, or (2) taken together, form a ring structure with the nitrogen.

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