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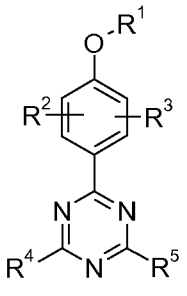
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(54) **Title:** HEAT-SENSITIVE COATING COMPOSITIONS BASED ON RESORCINYL TRIAZINE DERIVATIVES



(1)

(57) **Abstract:** The present invention provides heat-sensitive coating compositions, which comprise a a colour developer of formula (1) or mixtures thereof wherein R^1 can be hydrogen, C_{1-20}-alkyl, C_{3-8}-cycloalkyl, C_{2-10}-alkenyl, aryl or SO_3H, and R^2 and R^3 can be the same or different and can be hydrogen, halogen, C_{1-20}-alkyl, C_{3-8}-cyclo-alkyl, C_{2-10}-alkenyl, aryl, OR^6, NR^7R^8, SR^9, SO_3H or $COOR^{10}$ and R^4 and R^5 can be the same or different, and can be hydrogen, halogen, C_{1-20}-alkyl, C_{3-8}-cyclo-alkyl, C_{2-10}-alkenyl, aryl, OR^6, NR^7R^8 or SR^9, R^6, R^7, R^8, R^9 and R^{10} can be the same or different and can be hydrogen, C_{1-30}-alkyl, C_{3-8}-cycloalkyl, C_{2-10}-alkenyl or aryl, wherein C_{1-20}-alkyl can be unsubstituted or substituted with one or more C_{3-8}-cycloalkyl, C_{2-10}-alkenyl, phenyl, halogen, OR^{11}, $NR^{12}R^{13}$, SR^{14}, SO_3H or $COOR^{15}$, and aryl can be unsubstituted or substituted with one or more halogen, C_{1-10}-alkyl, halogenated C_{1-10}-alkyl, C_{3-8}-cycloalkyl, C_{2-10}-alkenyl, phenyl, OR^{11}, $NR^{12}R^{13}$, SR^{14}, SO_3H or $COOR^{15}$, wherein R^{11}, R^{12}, R^{13}, R^{14} and R^{15} can be the same or different and can be hydrogen, C_{1-10}-alkyl, C_{3-8}-cycloalkyl or C_{2-10}-alkenyl, a process for the preparation of these compositions, a process of coating substrates with these compositions, substrates coated with these compositions, a process for preparing marked substrates using these compositions, marked substrates obtainable by the latter process, and certain colour developers.

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