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ABSTRACT OF THE DISCLOSURE
POLYMERIC BIOCIDAL COMPOSITION AND METHOD
FOR MAKING SAME

5 A process incorporating chlorine dioxide precursors into a polymer or oligomer film that is coated onto various substrates. Controlled release is accomplished by absorption of moisture from the environment. An amine (primary, secondary, or tertiary amines substituted with 2-hydroxy or 2-carboxyamido ethylene groups) is dissolved or suspended into a melt consisting of monomers capable of strong hydrogen bonding. An apolar phase containing a water hydrolyzable acid anhydride or silane terminated acid is then blended with the polar amine containing phase to produce a
10 two phase system of arbitrary degree of dispersion. Reacting dry chlorine dioxide or chlorine dioxide solutions in apolar solvents with the oligomer or polymer film produces an iminium chlorite salt. The chlorine dioxide is released when the iminium chlorite loaded polymer is hydrated by ambient moisture.

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