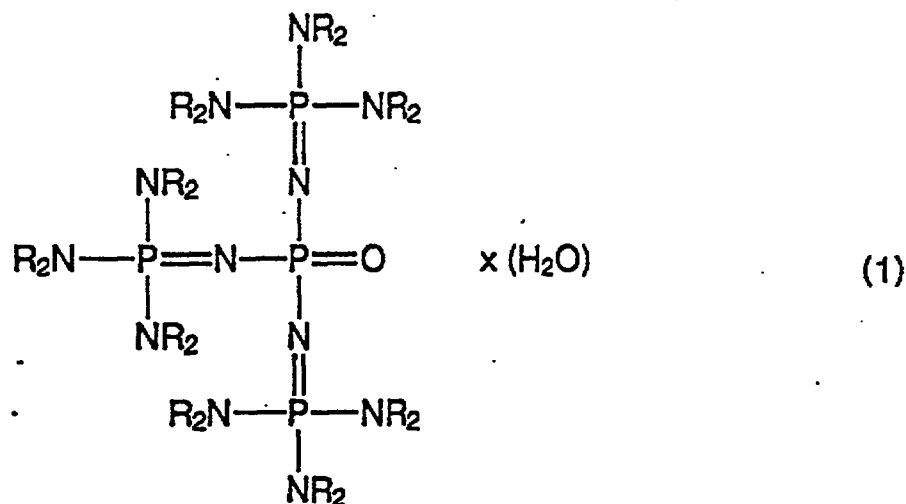




ABSTRACT OF THE DISCLOSURE

There is provided a process for preparing a poly(alkylene oxide) which does not contain any metallic component and does not leave an odor, simply and efficiently, by using a polymerization initiator which does not cause any problem on preparing and handling in the preparation of the polyalkylene oxide by polymerizing an alkylene oxide compound and does not require a special treatment before the initiation of the polymerization. That is, it is a process of polymerizing the alkylene oxide compound in the presence of a phosphine oxide compound represented by the formula (1):



wherein R is the same or different and each represents a hydrocarbon group having 1 to 10 carbon atoms, and x represents an amount of water molecules contained in terms of a molar ratio and is within a range from 0 to 5.0,

or in the presence of said phosphine oxide compound and an active hydrogen compound selected from water or an

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organic compound having a partial structural formula -OH or
-NH-.

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