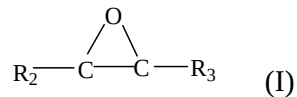


## Abstract

A spheric magnesium compound comprises a reaction product of at least the following components: (a) a magnesium halide having a formula of  $\text{MgX}_{2-n}\text{R}_n$ , wherein X is independently chloride or bromide, R is a  $\text{C}_1\text{-C}_{14}$  alkyl, a  $\text{C}_6\text{-C}_{14}$  aryl, a  $\text{C}_1\text{-C}_{14}$  alkoxy, or a  $\text{C}_6\text{-C}_{14}$  aryloxy, and n is 0 or 1; (b) an alcohol compound; and (c) an epoxy compound having a general formula (I), wherein  $\text{R}_2$  and  $\text{R}_3$  are independently hydrogen, a  $\text{C}_1\text{-C}_5$  linear or branched alkyl, or a  $\text{C}_1\text{-C}_5$  linear or branched haloalkyl. The magnesium compound has characteristic DSC curve and X-ray diffraction pattern, and can be used as a carrier for olefin polymerization catalyst.



stereoregularity of polymer having high melt index, and low content of polymer fines.

