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(54) Title: METHOD OF MAKING ZIEGLER-NATTA TYPE CATALYSTS

(57) Abstract: A process for making a Ziegler-Natta-type catalyst precursor including contacting a Group 4 metal compound with one or more Titanium compounds selected from the group of TiCl_3 (A1-activated or hydrogen-reduced), and $\text{Ti}(\text{OR})_4$ where R is ethyl, isopropyl or butyl in the presence of an alcohol solution having at least one $\text{C}_2\text{-C}_4$ alcohol and at least one of MgCl_2 and magnesium compounds which form MgCl_2 in the presence of the alcohol solution to form a catalyst precursor solution is provided. Also provided are catalysts made from the precursors produced by the process. Also provided are polymers made using the catalysts.



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