

**PROCESSES FOR THE PREPARATION OF
DOUBLE METAL CYANIDE (DMC) CATALYSTS**

ABSTRACT OF THE DISCLOSURE

The present invention provides processes for making double metal cyanide (DMC) catalysts, by simultaneously controlling the alkalinity of the transition metal salt, the molar ratio of water to total cations, the molar ratio of ligand to transition metal cation, the molar ratio of metal salt anion to metal cyanide anion, and the presence of a polymeric complexing ligand during the catalyst precipitation step. The substantially amorphous catalysts made by the present invention are highly active and may find use in the production of polyols.

Figure 1