

A B S T R A C T

CATALYST COMPOSITIONS

Catalyst compositions for the (co)oligomerisation or (co)polymerisation of olefinically unsaturated hydrocarbons, comprising a heterocyclopentadienyl of the general formula



wherein A is a Group 15 element and each R, which is connected to a carbon of the heterocyclopentadienyl ring, can be the same or different and is chosen from hydrogen or an organic substituent (optionally containing one or more hetero-atoms), in complex with a Group 4 or 5 metal, and the process of (co)oligomerisation or (co)polymerisation olefinically unsaturated hydrocarbons in the presence of such catalyst compositions.