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(74) Agent: DM KISCH INC.; P O Box 781218, 2146 Sand-
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(71) Applicant (for all designated States except US): SASOL
TECHNOLOGY (PTY) LIMITED [ZA/ZA]; 1 Sturdee
Avenue, Rosebank, 2196 Johannesburg (ZA).

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(72) Inventors; and

(75) Inventors/Applicants (for US only): HANTON, Martin
John [GB/GB]; 20 Osnaburgh Court, Dairsie Fife KY15
4SU (GB). SMITH, David Matthew [GB/GB]; 14
Freuchie Mill, Freuchie Fife KY15 7JL (GB).
GABRIELLI, William Fullard [ZA/GB]; 17 South
Street, St Andrews Fife KY16 9QS (GB). KELLY, Mark
William [GB/GB]; Flat 1R, 3 Gowrie Street, Dundee Fife
DD2 1ES (GB).

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(54) Title: OLIGOMERISATION OF OLEFINIC COMPOUNDS WITH REDUCED POLYMER FORMATION

(57) Abstract: The invention relates to a process for producing an oligomeric product by oligomerisation of at least one olefinic compound, the process including a) providing an activated oligomerisation catalyst by combining, in any order, i) a source of chromium, ii) a ligating compound of the formula $I(R^1)_m X^1(Y) X^2(R^2)_n \dots I$ wherein X^1 and X^2 are independently an atom selected from the group consisting of nitrogen, phosphorus, arsenic, antimony, bismuth, oxygen, sulphur and selenium or said atom oxidized by S, Se, N or O where the valence of X^1 and/or X^2 allows for such oxidation, Y is a linking group between X^1 and X^2 , m and n are independently 0, 1 or a larger integer, and R^1 and R^2 are independently hydrogen, a hydrocarbyl group, an organoheteryl group or a heterohydrocarbyl group, and R^1 being the same or different when $m > 1$, and R^2 being the same or different when $n > 1$, iii) a catalyst activator or combination of catalyst activators, b) providing a zinc compound, and c) contacting the at least one olefinic compound with a composition containing the activated oligomerisation catalyst and the zinc compound, the zinc compound being present in a sufficient quantity such that the ratio of the molar amount of zinc in the zinc compound to the molar amount of chromium in the source of chromium is between 1 and 10000 The invention also provides for a process for activating an oligomerisation catalyst to be used to produce an oligomeric product from at least one olefinic compound, as described above



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