

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : B01J 27/198	A1	(11) International Publication Number: WO 98/55226 (43) International Publication Date: 10 December 1998 (10.12.98)
(21) International Application Number: PCT/GB98/01616 (22) International Filing Date: 3 June 1998 (03.06.98) (30) Priority Data: 97/4925 4 June 1997 (04.06.97) ZA 98/0614 26 January 1998 (26.01.98) ZA (71) Applicant (for all designated States except US): SASOL TECHNOLOGY (PROPRIETARY) LIMITED [ZA/ZA]; 1 Sturdee Avenue, Rosebank, Johannesburg 2196 (ZA). (71) Applicant (for SD only): SASOL CHEMICALS EUROPE LIMITED [GB/GB]; 1 Hockley Court, 2401 Stratford Road, Hockley Heath, Solihull, West Midlands B94 6NW (GB). (72) Inventor; and (75) Inventor/Applicant (for US only): SOOKRAJ, Sadesh, Harichand [ZA/ZA]; 19 Belladonna Drive, Flora Gardens, Vanderbijlpark 1911 (ZA). (74) Agent: ABLEWHITE, Alan, James; Marks & Clerk, 57-60 Lincoln's Inn Fields, London WC2A 3LS (GB).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published With international search report.
(54) Title: PROCESS FOR PRODUCING A VANADIUM PHOSPHORUS OXIDE CATALYST (57) Abstract A method of making a vanadium phosphorus oxide (VPO) catalyst by precipitating from a 45-65 g/l solution of V⁴⁺ ions and V⁵⁺ ions a vanadium- and phosphorus-containing precipitate comprising a complex of formula VOHPO₄ · 1/2H₂O. The precipitate is calcined under an inert atmosphere to produce a VPO catalyst whose active phase is of formula (VO)₂P₂O₉. Said solution comprises cations of at least two of Bi, Zr, Cr, Ce, Co, Mn, Mg and Mo such that the precipitate comprises 1-25 % by mass of said dopant metal cations in total, the balance being said complex. Each dopant metal forms 0.1-20 % by mass of the precipitate.		