PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 : C07D 301/32

A1

(11) International Publication Number: **WO 00/55148**

(43) International Publication Date: 21 September 2000 (21.09.00)

(21) International Application Number: PCT/EP00/02272

(22) International Filing Date: 14 March 2000 (14.03.00)

(30) Priority Data:
99200810.2 16 March 1999 (16.03.99) EP

(71) Applicant *(for all designated States except US)*: SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. [NL/NL]; Carel Van Bylandtlaan 30, NL–2596 HR The Hague (NL).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: BECKERS, Johannes, Gerhardus, Joseph [NL/NL]; Badhuisweg 3, NL–1031 CM Amsterdam (NL). BLOM, Johannes, Jozias [NL/NL]; Badhuisweg 3, NL–1031 CM Amsterdam (NL).

(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, 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, GW, ML, MR, NE, SN, TD, TG).

Published
With international search report.

(54) Title: PROCESS FOR THE PURIFICATION OF PROPYLENE OXIDE

(57) Abstract

Process for improving the quality of a propylene oxide contaminated with poly(propylene oxide), which process comprises the steps of: (a) contacting the liquid propylene oxide with an adsorbent consisting of magnesium silicate and/or calcium silicate under such conditions that the amount of poly(propylene oxide) is reduced to the desired level, and (b) recovering the purified propylene oxide product.