



- (51) **International Patent Classification:**
C08K 3/18 (2006.01) *C08J 5/00* (2006.01)
C08C 19/06 (2006.01)
- (21) **International Application Number:**
PCT/CA2013/001017
- (22) **International Filing Date:**
11 December 2013 (11.12.2013)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
61/736,656 13 December 2012 (13.12.2012) US
- (71) **Applicant:** LANXESS INC. [CA/CA]; 1265 Vidal Street South, Samia, Ontario N7T 7M2 (CA).
- (72) **Inventors:** NGUYEN, Paul; 1717 Mickleborough Drive, London, Ontario N6G 5R7 (CA). DAVIDSON, Gregory, J., E.; 19 Meadowridge Crescent, London, Ontario N6H 5G1 (CA). STEEVENSZ, Richard; 389 Julie Court, Box 1396, Corrunna, Ontariio N0N 1G0 (CA).
- (74) **Agent:** BRUNET, Robert, A., H.; c/o Brunet & Co. Ltd, 10712 Melrose Drive, Komoka, Ontario N0L 1R0 (CA).

(81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) **Title:** PROCESSES FOR PREPARING EPOXIDIZED POLYMERS

(57) **Abstract:** The present invention is directed to a process for preparing epoxidized polymers. The process comprises reacting an unsaturated polymer with hydrogen peroxide in the presence of a polymer support having a sulfonic acid group. The present invention is also directed to an epoxidized halogenated-polymer which comprises repeating units derived from at least one isoolefin monomer and repeating units derived from at least one diolefinic monomer, and one or more allylic halide groups and one or more oxirane functional groups in the polymer backbone.



WO 2014/089674 A1