

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
7 January 2010 (07.01.2010)

(10) International Publication Number
WO 2010/002623 A3

(51) International Patent Classification:
C07C 309/17 (2006.01) *C11D 1/12* (2006.01)

(21) International Application Number:
PCT/US2009/048197

(22) International Filing Date:
23 June 2009 (23.06.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12/165,798 1 July 2008 (01.07.2008) US

(71) Applicant (for all designated States except US): **E. I. DU PONT DE NEMOURS AND COMPANY** [US/US];
1007 Market Street, Wilmington, DE 19898 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MURPHY, Peter, Michael** [US/US]; 16 Montbard Drive, Chadds Ford, PA 19317 (US). **HEWAT, Tracy** [GB/GB]; 70/3 Elm Row, Edinburgh EH7 4AQ (GB).

(74) Agent: **MAYER, Nancy, S.**; E. I. Du Pont De Nemours And Company, Legal Patent Records Center, 4417 Lancaster Pike, Wilmington, DE 19805 (US).

(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, 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, IS, JP, KE, KG, KM, 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, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (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, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:
24 June 2010

(54) Title: PARTIALLY FLUORINATED SULFONATED SURFACTANTS

(57) Abstract: The present invention comprises a compound comprising Formula 1A, 1B, or 1C: (R_a-O-CO-)X Formula 1A, R_a-O-CO-X-CO-O-(CH₂CH₂)R_f Formula 1B, R_a-O-CO-X-CO-O-R Formula 1C wherein R_a is the group R_f(CH₂CF₂)_d-(C_gH_{2g})-; R_fOCF₂CF₂-(C_gH_{2g})-; R_f OCFHCF₂O(CH₂CH₂)_v-(C_gH_{2g})-; R_fOCFHCF₂O(C_wH_{2w}); R_fOCF(CF₃)CONH-(C_gH_{2g}); or R_f(CH₂)_h[(CF₂CF₂)(CH₂CH₂)_k]; R_f is C_eF_(2e+1); d is 1 to about 3; g is 1 to 4; v is 1 to about 4; w is from about 3 to about 12; h is 1 to about 6; i, j, and k are each independently 1, 2, or 3, or a mixture thereof; provided that the total number of carbon atoms in group (vi) is from about 8 to about 22; X is a linear or branched difunctional alkyl sulfonate group -C_eH_(2e-1)(SO₃M)-, wherein e is 2 or 3; M is a monovalent cation selected from the group consisting of hydrogen, ammonium, alkali metal, or alkaline earth metal; R is H or a linear or branched alkyl group C_bH_(2b+1)-; and b is from 1 to about 18.



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