

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
29 January 2009 (29.01.2009)

PCT

(10) International Publication Number
WO 2009/013541 A3

(51) International Patent Classification:

C07F 9/38 (2006.01) *C11D 3/16* (2006.01)
C02F 5/14 (2006.01) *C07C 55/10* (2006.01)

(21) International Application Number:

PCT/GB2008/050612

(22) International Filing Date: 22 July 2008 (22.07.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

0714569.1 26 July 2007 (26.07.2007) GB

(71) Applicant (for all designated States except US): **INNOSPEC LIMITED** [GB/GB]; Innospec Manufacturing Park, Oil Sites Road, Ellesmere Port, Cheshire CH65 4EY (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **GILES, Matthew Robert** [GB/GB]; 1 Waverley Terrace, Hoole, Chester, Cheshire CH2 3PY (GB).

(74) Agent: **PIDGEON, Robert**; 15 Clare Road, Halifax Yorkshire HX1 2HY (GB).

(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, 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, 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, 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).

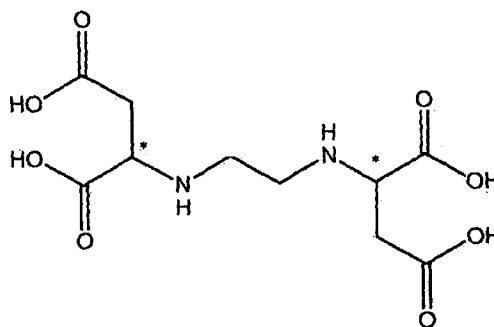
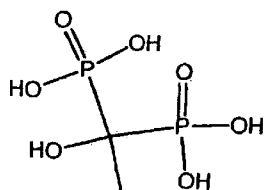
Published:

— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:

19 March 2009

(54) Title: AN ADDUCT OF 1-HYDROXYETHYLIDENE-L, 1-DIPHOSPHONIC ACID AND ETHYLENEDIAMINE DISUCCINIC ACID OR A SALT THEREOF, A METHOD FOR ITS PREPARATION, AND THE USE OF SAID ADDUCT



(57) Abstract: An adduct of 1-hydroxyethylidene-l, 1-diphosphonic acid and from 0.5 to 10 moles of ethylenediamine disuccinic acid or a salt thereof per mole of 1-hydroxyethylidene-l, 1- diphosphonic acid, wherein said adduct is in the form of a solid.



WO 2009/013541 A3