

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
22 September 2011 (22.09.2011)

PCT

(10) International Publication Number
WO 2011/114151 A2

(51) International Patent Classification:

<i>A21D 2/02</i> (2006.01)	<i>C04B 28/02</i> (2006.01)
<i>A21D 2/04</i> (2006.01)	<i>C04B 20/10</i> (2006.01)
<i>A23L 1/00</i> (2006.01)	<i>C04B 22/08</i> (2006.01)
<i>A23L 2/40</i> (2006.01)	<i>C04B 24/04</i> (2006.01)
<i>A62D 1/00</i> (2006.01)	<i>C04B 22/10</i> (2006.01)

(21) International Application Number:

PCT/GB2011/050519

(22) International Filing Date:

16 March 2011 (16.03.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

1004425.3	17 March 2010 (17.03.2010)	GB
1100316.7	10 January 2011 (10.01.2011)	GB

(71) Applicant (for all designated States except US): **KUDOS BLENDS LTD** [GB/GB]; Unit 5, Old Station Road, Cleobury Mortimer, Worcestershire DY14 8SY (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BROWN, Daniel James** [GB/GB]; 12 Branches Close, Bewdley, Worcestershire DY12 2HD (GB). **JORDAN, Diana** [GB/GB]; The Hollies, Silvington Hill, Hopton Wafers, Kidderminster DY14 0ER (GB).

(74) Agent: **BARKER BRETTELL LLP**; 100 Hagley Road, Edgbaston, Birmingham, West Midlands B16 8QQ (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, 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, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report (Rule 48.2(g))

(54) Title: STABILISED POTASSIUM BICARBONATE AND LOW-SODIUM LEAVENING COMPOSITIONS

(57) Abstract: Potassium bicarbonate is coated with an anionic or amphoteric surfactant, which is preferably a metal soap, such as calcium stearate, to inhibit caking on storage, and premature loss of carbon dioxide when mixed with acidulant, e.g. in a baking powder or self-raising flour blend. Loss of carbon dioxide in the blend may be further inhibited by coating the acidulant with surfactant. Combination of surfactant coating with an inorganic anti-caking agent such as silicon dioxide gives synergistic protection against caking of the potassium bicarbonate. Preferably the bicarbonate has D50 of between 35 and 200µ and is free from particles greater than 400µ.



WO 2011/114151 A2