

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
01 December 2022 (01.12.2022)



(10) International Publication Number
WO 2022/248490 A1

(51) International Patent Classification:

A23D 7/00 (2006.01) A23D 9/02 (2006.01)
A23D 7/02 (2006.01) C11C 3/10 (2006.01)
A23D 9/00 (2006.01)

(21) International Application Number:

PCT/EP2022/064088

(22) International Filing Date:

24 May 2022 (24.05.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

21175725.7 25 May 2021 (25.05.2021) EP

(71) Applicants: **BUNGE LODERS CROKLAAN B.V.**

[NL/NL]; Hogeweg 1, 1521AZ Wormerveer (NL).
BUNGE FINLAND OY [FI/FI]; Raisionkaari 55, 21200
Raisio (FI). **WALTER RAU LEBENSMITTELWERKE**
GMBH [DE/DE]; Münsterstrasse 9-11, 49176 Hilter am
Teutoburger Wald (DE).

(72) Inventors: **DONG, Jiajia**; Hogeweg 1, 1521AZ

Wormerveer (NL). **MULDER, Hendrikus**; Hogeweg 1,
1521AZ Wormerveer (NL). **MA, Jun**; Provincialeweg 33,
1506MA Zaandam (NL). **PIISPA, Eija, Marjatta**; Rai-
sionkaari 55, 21200 Raisio (FI). **SIEKER, Ina**; Herforder
Str. 173-179, 32257 Bünde (DE).

(74) Agent: **PUGH, Robert Ian**; Potter Clarkson, The Belgrave

Centre, Talbot Street, Nottingham NG1 5GG (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, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH,
KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, 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, ST, SV, SY, TH, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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, ST, 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: FAT COMPOSITION AND WATER-IN-OIL EMULSION

(57) **Abstract:** The invention relates to a fat composition comprising from 18.0% to 45.0% by weight of lauric acid (02:0); from 5.0% to 20.0% by weight of palmitic acid (06:0); from 4.0% to 18.0% by weight of stearic acid (08:0); a weight ratio of lauric acid (02:0) to stearic acid (08:0) of from 2.0 to 4.5; and a weight ratio of lauric acid (02:0) to palmitic acid (06:0) of from 1.5 to 5.0; said percentages of acid referring to acids bound as acyl groups in glycerides in the fat composition and being based on the total weight of C8 to C24 fatty acids; and from 5.0% to 25.0% by weight of total CIM32 triglycerides, CIM34 triglycerides and CIM36 triglycerides; from 10.0% to 45.0% by weight of total CIM44 triglycerides, CIM46 triglycerides and CIM48 triglycerides; and from 2.0% to 12.0% by weight of total CIM50 triglycerides and CIM52 triglycerides; based on total triglycerides present in the composition. The invention also relates to a water-in-oil emulsion product, such as margarine or spread, containing the fat composition.



WO 2022/248490 A1