

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

(19) World Intellectual Property  
Organization

International Bureau

(43) International Publication Date  
16 December 2021 (16.12.2021)



(10) International Publication Number  
**WO 2021/250210 A1**

(51) International Patent Classification:

C10M 173/02 (2006.01) C10N 30/06 (2006.01)  
C10N 20/00 (2006.01) C10N 40/20 (2006.01)  
C10N 20/04 (2006.01) C10N 40/22 (2006.01)  
C10N 20/02 (2006.01) C10N 30/18 (2006.01)  
C10N 30/02 (2006.01) C10N 30/00 (2006.01)  
C10N 30/04 (2006.01)

(21) International Application Number:

PCT/EP2021/065715

(22) International Filing Date:

10 June 2021 (10.06.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

202010523890.X 10 June 2020 (10.06.2020) CN

(71) Applicants: **SASOL CHEMICALS GMBH** [DE/DE];  
Anckelmannsplatz 1, 20537 Hamburg (DE). **SASOL (CHINA) CHEMICAL CO., LTD.** [CN/CN]; 68 Fangshui Road Chemical Industry Park, Nanjing 210047 (CN).

(72) Inventors: **CHEN, Fangbo**; Sasol (China) Chemical Co., Ltd. 68 Fangshui Road, Chemical Industry Park, Luhe District, Nanjing 210047 (CN). **FAN, Hao**; Sasol (China) Chemical Co., Ltd. 68 Fangshui Road, Chemical Industry Park, Luhe District, Nanjing 210047 (CN). **WU, Qisheng**; Sasol (China) Chemical Co., Ltd. 68 Fangshui Road, Chemical Industry Park, Luhe District, Nanjing 210047 (CN). **RAO, Jun**; Sasol (China) Chemical Co., Ltd. 68 Fangshui Road, Chemical Industry Park, Luhe District, Nanjing 210047 (CN).

(74) Agent: **MÜLLER SCHUPFNER & PARTNER PATENT- UND RECHTSANWALTSPARTNERSCHAFT MBB**; Schellerdamm 19, 21079 Hamburg (DE).

(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, IR, IS, IT, 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))

WO 2021/250210 A1

(54) Title: AQUEOUS COMPOSITION COMPRISING WATER-SOLUBLE GLYCERIN-BASED POLYALKYLENE GLYCOLS AND USE THEREOF

(57) Abstract: The invention relates to aqueous composition comprising water-soluble glycerin-based polyalkylene glycols as synthetic base oils as well as the use of the composition and the glycerin-based polyalkylene glycols as or in metalworking fluids, wherein the glycerin was consecutively alkoxyated in the following order: first with propylene oxide, followed by ethylene oxide and finally with propylene oxide.