

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
27 February 2025 (27.02.2025)



(10) International Publication Number
WO 2025/040076 A3

(51) International Patent Classification:

C07C 323/52 (2006.01) C08K 5/526 (2006.01)
C08K 5/372 (2006.01) C08K 5/00 (2006.01)

DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, 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).

(21) International Application Number:

PCT/CN2024/113293

(22) International Filing Date:

20 August 2024 (20.08.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PCT/CN2023/114024

21 August 2023 (21.08.2023) CN

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- of inventorship (Rule 4.17(iv))

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))

(71) Applicant: **BASF SE** [DE/DE]; Carl-Bosch-Strasse 38, 67056 Ludwigshafen Am Rhein (DE).

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

30 October 2025 (30.10.2025)

(71) Applicant (for KN only): **BASF (CHINA) COMPANY LTD.** [CN/CN]; No. 300 Jiang Xin Sha Road, Pudong New Area, Shanghai 200137 (CN).

(72) Inventors: **ISHAQUE, Michael**; No. 300 Jiang Xin Sha Road, Pudong New Area, Shanghai 200137 (CN). **ZHOU, Yi Qiong**; No. 300 Jiang Xin Sha Road, Pudong New Area, Shanghai 200137 (CN). **JIN, Shun Ying**; No. 300 Jiang Xin Sha Road, Pudong New Area, Shanghai 200137 (CN). **ROY, Abhijeet**; Thane Belapur Road, 400705 Navi Mumbai (IN).

(74) Agent: **ZHONGZI LAW OFFICE**; 7F, New Era Building, 26 Pinganli Xidajie, Xicheng District, Beijing 100034 (CN).

(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, CV, 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, MG, MK, MN, MU, 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, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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,

(54) Title: THIOSYNERGIST, ANTIOXIDANT COMPOSITION COMPRISING THE SAME AND POLY-MER COMPOSITION COMPRISING THE ANTIOXIDANT COMPOSITION

(57) Abstract: This disclosure relates to a liquid thiosynergist, to an antioxidant composition comprising the same, to a polymer composition comprising the antioxidant composition, to use of the antioxidant composition for stabilizing polymer, and to a process of synthesizing the liquid thiosynergist.

WO 2025/040076 A3