

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
2 December 2004 (02.12.2004)

PCT

(10) International Publication Number
WO 2004/104081 A3

(51) International Patent Classification⁷: **C08K 5/00**,
5/3492, 5/3472, 5/07, 5/098

(IT). **MORVILLIER, Marie-Raphael** [FR/FR]; 10, Allée
de Bourrienne, F-92500 Rueil-Malmaison (FR).

(21) International Application Number:
PCT/EP2004/050804

(74) Common Representative: **CIBA SPECIALTY CHEMICALS HOLDING INC.**; Patent Department, Klybeckstrasse 141, CH-4057 Basel (CH).

(22) International Filing Date: 14 May 2004 (14.05.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03405374.4 26 May 2003 (26.05.2003) EP
03103976.1 27 October 2003 (27.10.2003) EP

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant (*for AE, AG, AL, AM, AT, AU, AZ, BA, BB, BE, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, SZ, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW only*): **CIBA SPECIALTY CHEMICALS HOLDING INC.** [CH/CH]; Klybeckstrasse 141, CH-4057 Basel (CH).

(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, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for IT only*): **CIBA SPECIALTY CHEMICALS S.P.A.** [IT/IT]; Via Pila, 6/3, Fraz. Pontecchio Marconi, I-40037 Sasso Marconi (BO) (IT).

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

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **LAZZARI, Dario** [IT/IT]; Via Massarenti, 173, I-40138 Bologna (IT). **VITALI, Manuele** [IT/IT]; Via dei sette Leoncini, 7, I-40141 Bologna (IT). **BONORA, Michela** [IT/IT]; Via Volontari della Libertà, 9, I-40135 Bologna (IT). **ZAGNONI, Graziano** [IT/IT]; Via Firenze, 35, I-40038 Vergato (BO)

(88) Date of publication of the international search report:
10 February 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HIGHLY COMPATIBLE AND NON-MIGRATORY POLYMERIC UV-ABSORBER

(57) Abstract: The present invention relates to highly compatible hydroxyphenyltriazine UV-absorbers and to their use in organic polymers, especially for protecting the contents of transparent plastic packages such as pharmaceuticals, cosmetics, personal care products, shampoos and the like, and especially foodstuffs such as beverages, fresh vegetables or meat, from the deleterious effects of ultraviolet radiation. Especially advantageous is the combined use of a UV absorber and an oxygen scavenger. It has been found that certain highly compatible tris-aryl-s-triazines are especially effective towards this end when incorporated in the containers or films in which such materials are stored.



WO 2004/104081 A3