

REFERENCES

- [1] Pegiadou S., Perez, and M.R. Infante; J. of Surfactants and Detergents, 3, (4), (2000).
- [2] Satkowski. W.B., and Bennet. W.B.; Soap and Chem., Spec. 33, 37 (1957).
- [3] El-Sukkary M.M.A., El-Dib F., El-Sawy. A.A. and El-Ashry S.H.; Hungarian Journal of Industrial Chemistry, V (14), P. 219 (1986).
- [4] Hama, I. Sasamoto, H., Tamura, T., Nakamura T. and Miura K. Lion Corporation, Takyo 132, Japan.; Journal of Surfactants and Detergents. 1, 93-97 (1998).
- [5] Nakamura, Y.; Tomihara, K.; Kimura, J. and Yuge. N.; Jpn. Kokai Tokkyo JP 06 17, 091 [94 17, 091] (Cl. C11D1/92), 25 Jan. 1994; C.A.; 121, 111997s (1994).
- [6] Eissa A.M.F., El-Sawy A.A., Mahmoud A.A. and Moustafa M.H.; Egypt J. Chem., 39, No. 5, pp. 465-472 (1996).
- [7] Eaton J.T. and Kayser W.G.; Soap and Chem Spec., 33, 49 (1957).
- [8] Gregory V.P.; Proc of 43 Rd. Midyear Meeting of the Chem Spec. Mgrs. Assn., 142-144 (1957).
- [9] Vaugh and Others; J. Am. Oil, Chem. Soc., 29, 240 (1952).
- [10] Ahmed M. H. M.; J. of. Olaj, 52 appan, Kozmetika, 53 (1), 23-28 (2004).
- [11] Zienty, F. B. and steahly G.W., J. Am. Oil, Chem. Soc. 69:716 (1947).

- [12] Anderson, L.R., Hashem M.M. and Login R.B., U.S. Patent 4, 924, 006 (1990).
- [13] Narayanan, K.S., Chaudhuri R.K. and Login R.B., U.S. Patent 5, 221, 791 (1993).
- [14] Sidelkovskaya, E.P., Chim. Geterosiki Soevin, 2:212 (1968).
- [15] Chaudhuri, R.K., Login R.B. and Tracy D.J., U.S. Patent, 4, 713, 463 (1987).
- [16] Murdak, A., U.S. Patent, 2, 757, 125 (1956).
- [17] El-Sawy, A.A.; El-Dib, F. and Fadel, H.M., Kolorisztikai, Ertesito, (1989), 3 (4), 42-46. C. A: 112 (18) 161030f (1990).
- [18] Ricardo, N.M. P.S; Glendinning, A. and Price, C., Polym. Eng. Sci., (1996), 36 (2), 182-187. C.A: 124, 149254x (1996).
- [19] El-DougDoug, W. I. A. and Ahmed, M. H. M., Olaj Szappan, Kozmetika (2001), 50 (1) 25-29. C. A.: 136 (2), 21226v (2002).
- [20] Tracy, D. J.; Ruoxin, L. and Yang, J., PCT Int. Appl. WO 98 45, 308 (Cl. C07H15/12), 15 Oct. (1998) US Appl. 842, 928, 9 Apr (1997); 37 pp. (Eng). C.A: 129 (23) 304025x (1998).
- [21] Jacques, A. and Nadege, L., J. Carbohydrate chemistry, (2000). 19 (3), 379-392. C.A: 133, 79789689s (2000).
- [22] Kulkarni, A.S.; Khotpal, R. R.; Toliwal, S.D.; Mahabaleswara, N. and Bhakare, H. A., J. Oil. Technol. Assoc. Indian, (1992), 24 (3), 89-92. C.A: 119, 273899x (1993).
- [23] Yamamura, S.; Daisuke, O.; Nakamura, M.; Shzuma, M.; Tamai, T. and Takeda, T., Kagaku to Kogyo., (1999), 37 (9), 419-425 (Japan). C. A: 132 (18) 238708f (2000).

- [24] Sokolowski, A., Burczyk, B., (Politechnika Wrockawska) Pol. PL 163, 371 (Cl.C08G65/08), 31 Mar (1994), Appl. 286, 502, 14 Aug (1993)., C.A.; 123, 202972n (1995).
- [25] Piasecki, A., burczyk, B., (Politechnika Wrockawska) Pol. PL 163, 515 (Cl. C07D317/22), 29 Apr. 1994, Appl. 288, 369, 19 Dec. 1990. 4pp. C.A.; 123, 202974q (1995).
- [26] Eissa A.M.F. and Osman. F., Bull. N R C.; Egypt, 21 (3), 245-252 (1996).
- [27] Jerzykiewicz, W.; Misiurny, W., Zawadzki, M., Maksymic, D. and Haliniak, B., (Instytut Cieczkiek syntezy "Organiczeni Blachownia". Pol. PL., 147, 014 (Cl.CHD1/38)29 Apr. (1989) C.A., 112 \, 121127 m (1990).
- [28] Zaiqing, Y (Sigu Assistant plant) Faming Zhunaki Shenging Gonghai Shouning shu C N 1, 101, 893 (Cl Col C1/16) 26 Apr. (1995), Appl. 94, 105, 662, 24 May (1995), 7pp. (ch). C.A.; 124, 11394 m (1996).
- [29] Zhang Y.H, Ming L., sun. Z. and Zhao, W., (Department of Chemical Engineering. Inner Mongoli Polytechnic University, Huhhot, Peop. Rep. China 010062). Jingx; Huagong (1999). Application Development. 116-118 (Ch) (1999). C.A., 132, 167994h (2000).
- [30] Zhang, Z. and Shen, Z, S, (Jiangsu Inst. Of petrochemical Technology, Changzhou, Peop. Rep. China 213016) Riyong Huaxue Gongye. 3, 1-3 (ch) (1999). C.A., 132, 124513h (2000).
- [31] Tae-Seong. K., Toshikazu. H., and Isao I., Japan. J. Am. Oil Chem. Soc., Vol. 73 No. 1 (1996); C.A.; 126, 48608b (1997).

- [32] Berer, J., Jacobi, R., Rehbeil, U. and Knoll, E. (Bergakad. Freiberg, Germany); *Tenside, Surfactants, Deterg.* 29 (5), 328-32 (Ger) (1992); C.A.: 117, 253922 (1992).
- [33] Rahman, M.; Hung, A. and Wu-Cheng, R.U.S. US 5,552,066 (Cl 252-8.63; D06M13/322), 3 Sep (1996), US Appl. 252,033, 1 Jun (1994); 4 pp Cont.-in-part of U.S. 5,429,756. (Eng). C.A: 125, 251068x (1996).
- [34] Linfield, W.M., Davis, G.A. and Raschke, R. M., J. A. Oil. Chem. Soc., 35, 590, (1958).
- [35] Linfield, W.M., Sherrill, J.C., Casely, R.F. and Noel, D.R., J. Am. Oil. Chem. Soc., 37,248, (1960).
- [36] DuBrow, P. and Linfield, W. M., *Soap. Chem. Spac.*, 33 (4), 89 (1957).
- [37] Steinhauer, R.C. and Bertozzi, R. J (to Armour Dral. Ind.). U.S. Pat. 4,040,966 (1977).
- [38] Rosario-Jansen, T. and Lichtenwater, G. D. (Procter and Gamble. Co.). U.S.US.4,954,635 (C1.548-354; C07D239/06), 04 Sep. (1990); C.A. 114, 45558b (1991).
- [39] Shi, Z. W. and Huang, W. (Department of Chemistry, Northwest University, Xi, an, Peop. Rep. China 710069).; *Xibei Daxue Xuebao. Ziran Kexueban*, 26 (2), 131-133 (ch) (1996).; C.A. 125, 250987j (1996).
- [40] Milic, B. L., Silas, S. M. and Canadanovic, J. M., (Tehnoloski fakultet, Novi Sad, Yugoslavia). *Zb. Rad. Tehnol. Fak. Novom Sadu*, 24/25, 231-4 (1993) (Pub. 1994).; C.A. 124, 179457h (1996).

- [41] Ke-Fen, W. X. and Shi, Z.; (Department of Chemistry, Northwest University, Xi'an, Peop. Rep. China 710069). *Xibei Daxue Xuebao, Ziran Kexueban*, 29 (6), 531-534 (CH) (1999).; C.A. 133, 121989c (2000).
- [42] Ulrich, E., Abridged Version of an article in "Farbe und Lack" 99 (911) (1993), Henkel, Referate 30 (1994).
- [43] Dilas, S. M., Canadanovic, J. M. and Milic, B. Lj. (Tehnoloski fakultet, Novi Sad, Yugoslavia)., *Zb. Rad. Tehnol. Fak. Novom Sadu*, 24/25, 225-9 (1993) (Pub. 1994).; C.A. 124, 179456g (1996).
- [44] Hase, B., Krause, H. J. and Fristad, W. E., Paper presented at the "2nd International IUPAC Symposium, Organic Chemistry", Baden-Baden, (1991); See also Henkel-Referate 28, 43 (1992).
- [45] Hinrich, M., William, E.F. and Horst, J. K.; Abridged Version of a paper presented at the "48. DGF. Jahrestagung" in Essen, 7th to 10th September. (1992); See also Henkel-Referate 29 (1993).
- [46] Guan-Wu. W; Xan-You, Y., Youcheng, L.; Xue-Gong, L. and Qing Xiang, G.; *J. Am. Oil Chem. Soc.* Vol, 72, no. 1 (1995); C. A. 125, 13775f (1996).
- [47] Cuan-Wu, W.; Xion-Y.; Youcheng, L.; Xue-Gong, L and Qing-Xiang, G., *JAOCS.* (1995), 72 (1) 83-87. C.A: 125, 13775f (1996).
- [48] Wilk, K.; Bieniecki, A.; Burczyk, B. and Sokolowski, A., *JAOCS.* (1994), 71 (1), 81-5, (Eng). C. A: 120 (12) 137698z (1994).
- [49] Ianniello, R. M.; *J. Liq. Chromatogr.*, 13:1943 (1990).
- [50] Lagerman, R.; Clancy, S.; Tanner, D.; Johnston, N.; Callian, B. and Friedli, F., *JAOCS.*, (1994), 71 (1). 97-100 (Eng). C.A: 120 (12) 137704y (1994).

- [51] Pegiadon, S. K., Papazoglou. V. and Kahayoglou, A. H.; J. of Surfactants and Detergents, Vol. 3. No. 1 (2000).
- [52] El-DougDoug, W. I. A.; Hebash, K. A. H. and Eissa, A. M. F., Olaj. Szappan, Kozmetika, , 50 (4). 143-148, (2001).
- [53] Infante, M. R.; Perez, L. and Pinazo, A. Surfactant Sci. Ser., (1998), 74, (87-114). C. A: 130 (7) 83204w (1999).
- [54] Marvin, W. F., Eric, J., Frank, A. N. and Norman, O.V.; Bailey S. Industrial Oil and Fat Products; Vol. 1, Fourth Edition; (1979), 654-675.
- [55] Shi, Z.; Faming Zhuanli Shenqing Gongkai Shuoming Shu CN 1, 087, 334 (Cl. C07C233/36), 01 Jun (1994). Appl. 92, 112, 679, 26 Nov (1992); 8 pp.; C. A.; 123, 11689p (1995).
- [56] Smidrkal, J.; Krob, V., Zajicova H.; Zeman, Ivo., Mikulcova, D.; Novak, J., Cervinka, K., Koziskova, L., Shalsky, J. and Kovar, P., Czech. CS 263, 845 (C1.C11D1/90), 15 Jul 1989. Appl. 87/5, 682, 29 Jul 1987; 3pp; C. A.: 113, 61775e (1990).
- [57] Zielinska, E.; Lekawska, E.; Gasztych, D.; Szelejuewski, W.; Uminski, J.; Klopotek, J. and Janas, A.; Pol. Pl 124, 845 (C1.C07C143/14), 25 Jul 1985, Appl, 217, 721, 10 Aug 1979; 2pp. C.A.; 104, 209195c (1986).
- [58] Parris, N.; Weil, J.K and Linfield. W. M.; J. Am Oil Chem. Soc., 54, 264-266 (1997).
- [59] Allikmaa, V. and Kuusk, A.; Zh. Prike – Khim. (Leningrad). 62 (2), 363-7 (Russ) (1989); C.A.: 111, 117318m (1989).
- [60] Gawish, S. M.; Hazzaa, A.A.; Zourab, SH. And El-Din Gebril; J.Am. Oil. Chem. Soc., 58, 757-760 (1981).

- [61] El-Sawy, A.A.; Hung, J; Ind. Chem., 20 (1), 29-32 (1992).
- [62] Lake, D. B. and Hoh, L. K.; J. Am. Oil. Chem. Soc.. 40,628 (1963).
- [63] Ploog, U.; Uphues, G. and Nikolaus, P., Ger Offen. DE 3, 641, 871 (C1.C07D233/18), 09 Jun (1988), Appl. 08 Dec (1986); 5 pp. C.A.: 109, 131272g (1988).
- [64] Ochoa, F. and Jose, M.; Span. Es 540, 508 (C1.C11D1/88), 01 Dec 1985, Appl. 19 Feb 1985; 19 pp.; C.A.; 105, 210807f (1986).
- [65] Behler, A.; Ploog, U.; Uphues, G. and Clasen, F.; Ger. Offen. DE3, 932, 491 (C1.C070233/14), 11 Apr 1991, Appl. 28 Sep 1989; 4 pp.; C.A.; 115, 116828y (1991).
- [66] Uphues, G. L., and Neumann, P. (Henkel Kgaa, Germany) Ger. Offen. DE. 19, 524, 265 (C1.CO7C299/12), 9 Jan. 1997. Appl. 19, 524, 265, 4 Jul. 1995; 4pp. C.A.; 126173386d (1997).
- [67] Seibt, H.; Ballschuh, D.; Rusche, J. and Ohme, R., Ger. Offen. DE 275, 046 (C1.C07D207/08), 10 Jan (1990), Appl. 245, 375, 30 Nov (1982); 7 pp. C.A: 113 (16) 134671e (1990).
- [68] Masuyama, A.; Ono, D.; Yamamoto, A.; Kida, T.; Nakatsuji, Y. and Takeda, T.; Yukagaku 1995, 44 (6), 446-50 (Eng); C.A.; 1239, 59594h (1995).
- [69] Eissa, A. M. F.; Grasas Aceites., 46 (4-5), 240-4, (1995).
- [70] Matson, T. P.; J. Am. Oil. Chem. Soc., 40, 11, 640 (1964).
- [71] Pomares, J.; Trius, A. and Cuadrado, F.; Spn. Es 2, 012, 170 (C1.C07C102/00), 01 Mar 1990, Appl. 8, 803, 808, 15 Dec 1988; 15 pp.; C.A.; 114, 8582j (1991).

- [72] Schlingliff, G; Bachmann, F; Dannacher, J; Hzaen kamp, M Hegetsch Weiler, K. and Pauly, J. (Ciba Specialty Chemicals Holding Inc., Switz.) PCT Int. Appl. WO 00 26, 332 (C1.C11D3/39) 11 May 2000. EP Appl. 1998/811, 091, 30 Oct. 1998; 21 pp. (Ger). C.A.; 132, 336140j (2000).
- [73] Yamamara, M., Jpn. Kokai Tokkyo Koho Jp 06, 200, 176 [94, 200, 476] (C1.D06M13/325), 19Jul (1994), Appl. 92/208, 965, 05 Aug (1992); 8 pp. C.A: 122 (12) 136829x (1995).
- [74] Hasegawa, Y; Inokoshi, J; Yamamura, M. and Hasegawa, S., Jpn. Kokai Tokkyo Koho JP 07 70, 927 [95 70, 927] (C1.D06M13/352), 14 Mar (1995), Appl. 93/220, 104, 03 Sep (1993); 17 pp. C. A: 123 (10) 116306s (1995).
- [75] Oochi, T; Inokoshi, J. and Aoyanagi, M., Jpn. Kokai Tokkyo Koho Jp 08 81, 881 [96 81, 881] (C1. D06M13/463), 26 Mar (1996), Appl. 94/219, 010, 13 Sep (1994); 10 pp. (Japan). C. A: 125 (6) 61520r (1996).
- [76] Liew, J., U.S. Pat. Appl. Publ. US 2003 114, 335 (Cl, 510-329; C11D3/00), 19 Jun (2003). Appl. 15, 059, 11 Dec (2001); 7 pp. (Eng). C.A: 139 (3) 38286z (2003).
- [77] Thust, U.; Utschick, H.; Ueberschaer, K.; Biering, H.; Dotzauer, R.; Kochmann, W.; Ballschuh, D.; Ohme, R.; and Roething, T., et. al. Ger. (East) DD 251, 784 (C1.C11D1/62), 25 Nov 1987. Appl. 293, 336, 01 Aug 1986; 7 pp.; C.A.; 109, 15 19825 (1988).
- [78] Rosario, J, T; Wahl, E. H.; and Lichtenwalter. G. D.; Can Pat. Appl. CA.2, 023,876 (C1.D06M13/35), 07 Mar. (1991), US. Appl. 403, 549, 06 sep. 1989; C.A.:115, 210694y (1991).

- [79] Gummo, G. A.; Earl, G. W.; and Johnston, N. (Sherex Chemical Co. Inc.) U.S. US 5, 128, 053, 053 (C1. 252-8.6; D06M10/08), 07 Jul 1992. Appl. 651, 577, 06 Feb.; 10pp.; C.A.: 117, 173834n (1992).
- [80] Yamamura, M.; and Inokoshi, J.; (Kao Corp.) Jpn. Kokai Tokkyo Koho Jp 02, 169, 769 (90, 169, 769) (C1.DO 06 M 13/463), 29 Jun 1990. Appl. 88/319, 867, 19 Dec. 1988; C.A.; 114, 45552v (1991).
- [81] Oguri, T.; Nishama, Y. and Nakamura, T (Asahi Denka Kogyo KK; Koopu Kuriin KK, Japan) Jpn. Kobai Tokkyo Koho Jp 09 59, 671 (9759, 671) (C1.C11D1172), 4 Mar. 1997. Appl. 95/217, 654, 25 Aug. 1995; 7 pp. (Japan); C.A: 126, 1793184 (1997).
- [82] Yamamura, M., (Kao Corp) Jpn. Kokai Tokkyo Koho Jp 06, 200, 476 (94, 200, 476) (C1.DO6 M131325), 19 Jul 1994, Appl 92/208, 965, 05 pp. Aug. 1992. C.A.:; 122, 136829x (1995).
- [83] Ilardi, L. M. and Madison, S.A (Lever Brothers Co., USA). U.S. US 5, 663, 138 (C1.510-515; D06M13/46), 2 Sep 1997. US Appl. 379, 054, 27 Jan 1995; 4 pp. Cont.-in-part of U.S. 5, 527, 477. (Eng). C. A.; 127, 149747r (1997).
- [84] Rahman, M. A.; Hung, A. and Wu. S. R (Lever Brothers Co., USA). U.S. US 5, 552, 066 (C1.252-8.63; D06M13/322), 3 Sep. 1996., US Appl. 252, 033, 1 Jun 1994; 4pp. Cont. in-part of U.S. 5, 429, 756. (Eng). C.A.; 125, 251068x (1996).
- [85] Ilardi, L. M.; and Madsion, S. A. (Lever Brothers Co. USA). U.S. US5, US 5, 527, 477 (Cl. 252-8.8. 69 D06 M13/00), 18 Jul 1996, US Appl. 260, 642, 16 Jun 1994; 5pp. C.A.; 125, 145644x (1996).

- [86] Dankowaki, M; Del Grosso, M. and Dorfer, A., U.S. US 5,654,239 (Cl. 510-313; C11D3/39), 5 Aug (1997), DE Appl. 4, 429, 943, 25 Aug (1994); 5 pp. (Eng). C.A.: 127 (13) 177996w (1997).
- [87] Nestler, B., Ger. Offen. DE 19,738,274 (C1. C11D3/39), 4Mar (1999), Appl. 19,738,274, 2Sep (1997); 6 pp. (Ger). C.A: 130 (17) 224646f (1999).
- [88] Yoneyama, Y., Jpn. Kokai Tokkyo Koho JP 09, 202, 895 (97, 202, 895) (C1. C11D3/395), 5 Aug (1997), Appl. 96/32, 689, 26 Jan (1996); 6pp. (Japan). C.A: 127 (13) 178002f (1997).
- [89] Boan, L. and Madison, S., U.S. US 5, 429,768 (C1.252-186.39; C09K3/00), 04 Jul (1995), Appl. 156, 349, 22 Nov (1993); 6pp. C. A: 123 (22) 290405n (1995).
- [90] Heffner, R. J.; and Steltenkamp, R. J. (Colgate-Palmolive Co. USA) PCT Int. Appl. WO 97 24, 429 (C1. C11D3/39), 10 Jul 1997. US Appl. 11, 486, 12 Feb 1996; 30 pp. (Eng). C.A.; 127, 150414t (1997).
- [91] Heffner, R. J. and Steltenkamp, R. J (Colgate-Palmolive Co. USA) PCT Int. Appl. WO 97 24, 430 (C1.C11D3/39), 10 Jul 1997. US Appl. 11, 488, 12 Feb 1996; 22 pp. (Eng). C.A.; 127, 150415u (1997).
- [92] Hardi, L. and Madsion, S., U.S. US 5, 527, 477 (C1. 252-8.8; D06M13/46), 18 Jun (1996), US Appl. 260, 642, 16 Jun (1994); 5 pp. Cont.-in-part of U.S. 5, 429, 755. (Eng). C.A; 125 (12) 145644x (1996).
- [93] Hardi, L. and Madsion S., U.S. US 5, 663, 138 (C1. 510-515; D06M13/46). 2 Sep (1997), US Appl. 379, 054, 27 Jan (1995); 4

- pp. Cont.-in-part of U.S. 5, 527, 477. (Eng). C.A.: 127 (18) 249747c (1997).
- [94] Wilk, K. Pozniak, R. and Scholowski, A., J. Surfactants and Deterg., 3 (2). 207-211, (2000) .
- [95] Hardi, L. and Madsion, S., U.S. US 5, 429, 755 (C1. 252-8.6, D06M13/00) 04 Jul (1995) Appl. 260, 642, 16 Jun (1994); 5 pp. C. A: 123 (22) 290494m (1995).
- [96] Kifli, H, Nakasato, S. and Abraham, M., Elaeis (1991), 3 (1), 294-301 (Eng). C.A: 120 (2) 10746h (1994).
- [97] Oochi, T.; Inokoshi, J and Aoyanagi, M. (Kao Corp, Japan) Jpn. Kokai Tokkyo Koho JP 0881, 881 (96 81, 881) (C1. D06 M13/463. 26 Mar 1996, Appl. 94/219, 010, 13 Sep 1994; 10 pp. (Japan). C.A.; 125, 61520r (1996).
- [98] Morita, H.; Kagawa, H; Nagashima, T. and Kameda, S. (Kawaken Fine Chemicals Co) Jpn. Kokai Tokkyo Koho Jp 06, 287, 596 (94, 287, 596) (C1.C11D3/28) 11 Oct 1994. Appl. 93/95, 504, 30 Mar 1993; 5 pp. C.A.; 122, 268707r (1995).
- [99] Matsumoto, S. (Asahi Chemical Industry Co., Ltd. Japan) Jpn. Kokai Tokkyo Koho JP. 2000, 141, 939 (C1. B 41 N3/06) 23 May 2000. Appl. 98/320/712, 11 Nov 1998; 7 pp. (Japan)., C. A.; 132, 336158w (2000).
- [100] Nitsch, C; Burg, B; Jeschke, P. and Hees, U. Ger. Offen. DE 4, 408, 503 (C1.C11D3/22), 21 Sep (1995), Appl. 4.408, 503, 14 Mar (1994); 11 pp. (Ger). C.A: 124 (2) 11426y (1996).

- [101] Moeller, H; Blum, H; Nitsch, C. and Haerer, K., Ger. Offen. DE 19, 701, 031 (C1.C11D3/28), 16 Jul (1998), Appl. 19, 701, 031, 15 Jan (1997); 6pp. (Ger). C.A: 129 (11) 137664w (1998).
- [102] Akaha, Y. and Isobe, K., Jpn. Kokai Tokkyo Koho JP 05, 317, 676 [93, 317, 676] (C1.B01F17/56), 03 Dec (1993), Appl. 92/146, 282, 13 May (1992); 8 pp. C.A: 120 (26) 326217c (1994).
- [103] Yamada, M; Onodera, S. and Katsura, I. (Nippon Oils & Fats Co Ltd., Japan) Jpn. Kokai Tokkyo Koho Jp 08, 283 (96, 283, 783) (C1.C11D3/34), 29 Oct 1996. Appl. 95/112, 421, 13 Apr; 9 pp., C.A.; 126, 76519s (1997).
- [104] Sugano, Y; Seto, S. and Ushama, H. (Lion Corp, Japan) Jpn. Kokai Tokkyo Koho Jp 08, 283, 797 (96, 283, 797) (C1.C11D10/04), 29 Oct 1996. Appl. 95/110, 174; 7 pp (Japan)., C.A.; 126, 76534t (1997).
- [105] Kumagai, M.; Tsuchida, K.; Yoshida, K. and Ogino, Yukio (Japan Engjii KK; Kyoseki Sekhin Gijutsu Kenk) Jpn. Kokai Tokkyo Koho Jp 06, 157, (94, 157, 471) (C1. C07D233/60), 03 Jun 1994. Appl. 92/253, 100, 22 Sep 1992; 29 pp., C.A.; 122, 109368q (1995).
- [106] Quraishi, M. A., Khan, M. A. W.; Ajmal. M. S. M., and Lyer. S.U.; Influence of Some Thiazole Derivatives on the Corrosion of Mild Steel in Hydrochloric Acid.; Anti-corrosion. Met. Mat., 43:5-8 (1996).
- [107] Singh, D. D. N., and Singh, A. K.; Synergistic Effects of Inorganic and Organic Cations on Inhibitive Performance of Propargyl Alcohol on Steel Dissolution In Boiling Hydrochloric Acid Solution Corrosion 49:594-600 (1993).

- [108] Quraishi, M. A., Ansari, M. Q., Ahmed, S. and Venkatachari, G., Bull. Electrochem., 13:257-259 (1997).
- [109] Quraishi, M. A., Perumal, D. J., Subramanian, P.; Natesan, M; Venkatachari, G. and Balakrishnan, K.; Ibid. 12; 100-102 (1996).
- [110] Quraishi, M. A., Ahmed, S., and Ansari, M. A.; Ber. Corros, J. 32:297-300 (1997).
- [111] Quraishi M. A., Perumal, D. J., and Venkatacharai, G.; Bull. Electrochem., 12:526-528 (1996).
- [112] Quarishi, M. A., and Jamal. D. D.; Corrosion, 56:156-160 (2000).
- [113] Danlata, C. D., Mirajkar, A. M., and Hosomani, K. M., J. Oil. Tech. Assoc. India 21:27-29 (1989).
- [114] Iqbal, M., Kittur, M. H, and Mahajanshetti, C. S., Ibid 16:49-52 (1984).
- [115] Quraishi, M. A. Khan, M. A, W, and Ajmal, M. Port. Electrochem., Acta 13:63-78 (1995).
- [116] Liu, Don K. K. and Convents, A. C., U.S. US 5, 451, 337 (C1. 252-102; C11D3/28), 19 Sep (1995), Appl. 251, 057, 31 May (1994); 10 pp. (Eng). C. A: 124 (6) 59946v (1996).
- [117] Boeckh, D. Jaeger, H; Funhoff, A: Schade, C. and Stein, S., Ger Offen. DE 19, 519, 337 (C1.C11D1/83), 28 Nov (1996), Appl. 19, 519, 337, 26 Mar (1995); 12 pp. (Ger). C.A: 126 (6) 76517q (1997).
- [118] Stein, S; Boeckh, D; Schade, C. and Roesler, G., Ger. Offen. DE 19, 582, 718 (C1.C08F26/06), 6 Mar (1997), Appl. 19, 582, 718, 5 Sep (1995); 13 pp. (Ger). C.A: 126 (20) 268111w (1997).

- [119] Shih, J.; Srinivas, B.; Hornby, J. and Drzewinski, M., *Polymeric Materials Science and Engineering*, 84, 553-554, (2001).
- [120] Sanner, A.; Detering, J.; Schade, C.; Nguyen, K. and Trieselt, W., *Geroffen. DE* 4; 224, 762 (C1.C11D3/37), 03 Feb (1994), *Appl.* 27 Jul (1992); 6 pp. C.A: 121 (2) 12302e (1994).
- [121] Payne, R.; Hwang, A., and Subramanyam, R. (Colgate-Palmolive Co., USA). *U.S.US.* 5, 840, 670 (C1.510-152; C11D9/30), 24 Nov 1998. *Appl.* 790, 498, 29 Jan 1997; 6 pp. (Eng)., C. A.; 130, 26482m (1999).
- [122] Tsukuda, K; Morii, N; Kubo, M. and Ogura, N., *Jpn. Kokai Tokkyo Koho JP* 2002 294, 300 (C1.C11D17/08), 9 Oct (2002), *Appl.* 2001/92. 366, 28 Mar (2001); 10 pp. (Japan). C. A: 137 (20) 296603g (2002).
- [123] Tsukuda, K; Saito, M. and Tsumadori, M., *Jpn. Kohai Tokkyo Koho JP* 05, 214, 392 [93, 214, 392] (C1.C11D10/02), 24 Aug (1993), *Appl.* 92/21, 003, 06 Feb (1992); 9 pp. C.A: 120 (9) 57278x (1994).
- [124] Weber, K; Eckhardt, C. and Meyer, H. U. S. US 5, 326, 491 (C1.252-95; C11D7/34), 05 Jul (1994). *CH Appl.* 89/1, 629, 28 Apr (1989); 9 pp. Cont.-in-part of U.S.Ser. No. 827, 523, abandoned. C.A: 122 (26) 317445q (1995).
- [125] Eckhardt, C. *Eur. Pat. Appl. EP* 548, 019 (C1.C11D3/42), 23 Jun (1993), *CH Appl.* 91/3, 777, 19 Dec (1991); 9 pp. C.A.: 120 (8) 79959x (1994).
- [126] Thoen, C. and Arthur, J., *Eur. Pat. Appl. EP* 663, 438 (C1.C11D3/37), 19 Jul (1995), *Appl.* 94/300, 227, 13 Jan (1994); 14 pp. C.A: 123 (22) 290492j (1995).

- [127] Coccia, M; Eugenio, G. and Magnoni, M., Eur. Pat. Appl. EP 1, 253, 191 (C1.C11D3/42), 30 Oct (2002), IT Appl. 2001/M110, 884, 27 Apr (2001); 10pp. (Eng). C.A: 137 (23) 339315j (2002).
- [128] Kaschig, J; Hochberg, R; Becherer, O; Metzger, G. and Eckhardt, C., PCT Int. Appl. WO 03 70, 860 (C1.C11D3/42), 28 Aug (2003); EP Appl. 2002/405, 876.11 Oct (2002); 42 pp. C.A:139 (14) 216187c (2003).
- [129] Brena, M., Itali. IT 1, 304, 728 (C1.D06L), 29 Mar (2001), Appl. 1998/BG 52, 29 Set (1998); 15 pp. (Itali). C.A: 138 (14) 206895x (2003).
- [130] Calek, C., CS 275, 160 (C1.D06L3/12), 19 Feb (1992), Appl. 88/8, 194, 12 Dec (1988); 3 pp. C. A: 120 (4) 33404j (1994).
- [131] Fringeli, W. and Zelger, J., Eur. Pat. Appl. EP 542, 677 (C1.D06L3/12) 19 May (1993), CH Appl. 91/3, 245, 07 Nov (1991); 14 pp. C.A: 120 (4) 33407n (1994).
- [132] Wang, J. and Gu, J; Zhou, M., Faming Zhuanli Shenqing Gongkai Shuomingshu CN 1, 354, 242 (C1.C11D/94). 19 Jun (2002), Appl. 2, 000, 127475, 22 Nov (2000); 4 pp. (Ch). C. A. 138 (25) 387180d (2003).
- [133] Hofer, U; Kaufmann, W. and Rembold. M., Eur Pat. Appl. Ep 659, 877 (C1.C11D3/42), 28 Jun (1995), GB Appl. 93/26, 358, 23 Dec (1993); 27 pp. C. A: 123 (22) 290487m (1995).
- [134] Hochberg, R. and Rohwer, H., PCT Int. Appl. WO 02 79, 564 (C1.C06M13/358), 10 Oct (2002), EP Appl. 2001/810, 309, 27 Mar (2001); 23 pp. (Eng). C.A: 137 (20) 296610g (2002).
- [135] Rajadhyaksha, V. J., U.S. Patent 3, 991, 203 (1976).
- [136] Rajadhyaksha, V. J., U.S. Patent 4, 122, 170 (1978).

- [137] Skinner, W. A., Rosentreter. U., and El-Ward. T. E., U.S. Patent. 4299, 840 (1981)., J. Pharm. Sci. 72:1354 (1983).
- [138] Dalington, W. A., U.S. Patent. 3, 085, 931 (1963).
- [139] Takemkatsu, T., Japan. Patent Appl. No. 92, 231 (1974).
- [140] Mestetsky, T. S., and Webster. B. G., U. S. Patent. 3, 846, 227 (1978).
- [141] Hollis, C. G., Rayed. S. R., and Whkitemore, M. S., U.S. Patent. 5. 250, 194 (1993).
- [142] Merianos, J. J. and Login, R. B., U.S. Patent. 5, 008, 038 (1991).
- [143] Chuang, J., U.S. Patent, 5, 206, 316 (1993).
- [144] Helioff, M. W. and Marsi, S., Drug & Cos. Ind., April (1988).
- [145] Helioff, M. W., Marsi, S., and Bires. C., Cosmetics & Toiletries, 80 (1988).
- [146] Narayanan, K. S., and Chaudhuri, R. K. IUPAC 7th International Congress of Pesticide Chemistry, Hamburg, pp. 77-94. (1990).
- [147] Narayanan, K. S. and Chandhuri, R. K., Pesticide Formulation & Application Systemes, Vol. II, Edited by Chasin, D. G. and Borde, L. N., American Society for Testing Materials, Philadelphia, (1990).
- [148] Narayanan, K. S., U.S. Patent 5, 317, 042 (1994).
- [149] Narayanan, K. S., U.S. Patent 5, 300, 529 (1994).
- [150] Login, R. B., and Chaudhuri, R. K., U.S. Patent 4, 719, 287 (1988).
- [151] Murthy, A. K., Colloid & Polymer Science 271:209 (1993).
- [152] Hull, M., and Van Der Hoeven P.C., G.B. Patent 2. 259, 096 A (1993).
- [153] Bires, C., Hellion. M. W., and Login R. B., U.S. Patent 4, 775, 527 (1988).
- [154] Helioff, M. W., Bires. C., and Login, R. B., U.S. Patent 4. 793, 994 (1988).

- [155] Zhou, J. and Fochtman, D. J., U.S. Patent 5, 198, 209 (1993).
- [156] Amin, M. S., Eissa, A. M. F., Shaaban, A. F., El-Sawy, A. A. and El-Sayed, R., Indian Journal of Chemistry, 37B, 1153-1156 (1998).
- [157] Amin, M. S., Eissa, A. M. F., Shaaban, A. F., El-Sawy, A. A. and El-Sayed, R., Olaj, Szappan, Kozmetika, 52, 6, (2004).
- [158] Holden, D. A., Can. J. Chem. 26, 574-579 (1983).
- [159] Lindstedt, M.; Allenmark, R.; Thompson, A.; Edebo, L.; Antimicrobial Agents and Chemotherapy, 34 (10), 1949-1954 (1990).
- [160] Ross, J. and Milles, G.D.; Oil soap, 18, 99 (1941).
- [161] Katarzyna M, Gerard C and J. Szymanowski, Journal of Colloid and Interface Science, 269, 466-471 (2004).
- [162] Milton J., Rosein (Surfactants and Interfacial Phenomena) Third Edition, John Wiley and Sons, INC.; Publication, USA, (2004), P.287.
- [163] Eissa, A.M.F.; Olajszappan Kozmetika, 51 (4), 155 (2003).
- [164] Eter, E.T., Richard, R.E. and A. David; J. Am. Oil. Chem. Soc. 51, 486 (1974).
- [165] Lindstedt, M.; Allenmark, S.; Thompson, A. and Edebo, L.; Antimicrobial Agents and Chemistry: 34 (10), 1949 (1990).
- [166] Guido, V.; Pierluigi, Q; Claudia, B.; Piero, S.; Ermanno, B.; and F. Emilia; 65, 8197 (2000).
- [167] Sudhölter, E. J. R; J. B. F. N; de Jeu, W. H. J. Phys. Chem., 86, 1908-1913, (1982).
- [168] Savignac, A. de; Dupin, P.; Matondo, H.; Bories, S.; Lattes, A. J. Chem. Technol. Biot., 30, 117-128, (1980).

- [169] James, A. D.; Stewart, D. cationic surfactants in Road construction and Repair. In Industrial Applications of surfactants II; Karsa, D. R.; Ed.; Royal society of chemistry, Cambridge, 1990; pp 338-355.
- [170] Kenny, F. J. use of surfactants in Mineral flotation. In Industrial Applications of surfactants II; Karsa, D. R., Ed.; Royal Society of Chemistry; Cambridge, 1990; pp 336-394.
- [171] Petrova, L.; Nedeva, V.; Nanova, L.; Stamova, L. Tr.-Mezh. danar. Kongr. Poverkh.-Akt. Veshchestvam, 7th 1976, 1, 557-563; Chem. Abstr. 1979, 91, 411, 63C.
- [172] (a) Katrizky, A. R.; Offerman, R. J.; Wang, Z. Langmuir, 5, 1087-1092, (1989). (b) Sayari, A.; Chem. Mater., 8, 1840-1852, (1996).
- [173] Rubingh, D. N.; Holland, P. M. Cationic surfactants; Physical Chemistry, surfactant science services vol. 37; Marcel Dekker Publisher: New York, 1991; Chapters 2, 3, 5, 6, 8 – 10 and references therein.
- [174] Fisicaro, E.; Barbieri, M., Pelizzetti, E.; Savarino, P. J. Chem. Soc., Faraday Trans., 87 (18), 2983-2987, (1991).
- [175] Rosen, M. J. Surfactants and Interfacial Phenomena, 3rd Edn.; J. Wiley and Sons; New York, 2004; p18.
- [176] D. Demberelnyamba, Ki-subkim, sukjeong Choi, Seung-yeob Park, Huenlee, Chang-Jin Kim and Ick-Dongyoo; Bioorganic & Medicinal Chemistry, 12, 853-857 (2004).
- [177] Preston, A. F. J. Am. Oil. Chem. Soc., 60, 567, (1983).
- [178] Alargova, R. G., Kochijashky, I. I., Sierra, M., L., Kwetkat, K. Zana, R., 2001. Mixed micellization of dimeric (gemini)

- surfactants and conventional surfactants J. colloid interface sci. 235, 119-129.
- [179] Findly, A. "Practical physical chemistry". Longmans, London, 6th, Ed.: 1040 (1963).
- [180] Burezyk, R.; Wilk, K.A., Sokotowski, A. and Syper, L., J. Colloid Interface Sci., 240-552 (2001).
- [181] Durham, K.: "Surface active and detergency" Mac Millan & Co. Ltd., London (1961).
- [182] Szymanowski, A. Wyrwasa, B. Bubiena, E. Kurosza, T.; Hreczuch, W.; Zembrzuska, W. and Z. lukaszewski, Water Research, 36, 3378 (2002).
- [183] Brunner, P.H.; Capris, Marcomini, A. and W. Giger, Water Research, 22: 1465-72, (1988).
- [184] Szymanowski, A.; Wyrwasa, B.Z. Jaroszynski, T., Lukaszewski, Z., Water Res. 34, 4101 (2000).
- [185] M.O. Amdur et al., Casarett and Doull's Toxicology: (The Basic Science of Poisons), Fourth Edition, New York, Pergamon Press, (1991).
- [186] A.C. Mofft, "Clark's Isolation and Identification of Drugs", The pharmaceutical Press, London (1986).