

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

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
14 April 2011 (14.04.2011)

PCT

(10) International Publication Number
WO 2011/042836 A1

(51) International Patent Classification:
C07C 253/34 (2006.01) *C07C 255/00* (2006.01)
C07C 255/25 (2006.01)

(21) International Application Number:
PCT/IB2010/054382

(22) International Filing Date:
29 September 2010 (29.09.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09172246.2 5 October 2009 (05.10.2009) EP

(71) Applicant (for all designated States except US): **BASF SE** [DE/DE]; 67056 Ludwigshafen (DE).

(71) Applicant (for MN only): **BASF (China) Company Limited** [CN/CN]; 300 Jiangxinsha Road, Shanghai, 200137 (CN).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **Judat, Bernd** [DE/DE]; Ilbesheimer Weg 15, 67067 Ludwigshafen (DE). **Ofring, Alfred** [DE/DE]; Im Röhrich 49, 67098 Bad Dürkheim (DE). **Stamm, Armin** [DE/DE]; Am Wasserwerk 5, 55268 Nieder-Olm (DE). **Teich, Friedhelm** [DE/DE]; Fichtenstr. 38A, 68535 Neckarhausen (DE).

(74) Common Representative: **BASF SE**; 67056 Ludwigshafen (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, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: METHOD FOR ISOLATING METHYLGLYCINENITRILE-N,N-DIACETONITRILE

(57) Abstract: A method for isolating methylglycinenitrile-N,N-diacetonitrile (MGDN) from an aqueous mixture comprising MGDN is provided. The method comprises cooling the aqueous mixture in one or more steps. In one of these steps the mixture is cooled at a cooling rate of at least 20K/h from a temperature above the solidification point of MGDN to a temperature below the solidification point of MGDN. The method is implemented continuously.



WO 2011/042836 A1