

CORRECTED VERSION

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
31 March 2011 (31.03.2011)

PCT

(10) International Publication Number  
**WO 2011/036561 A8**

(51) International Patent Classification:

*C07D 279/18* (2006.01) *A61P 31/00* (2006.01)  
*A61K 31/5415* (2006.01) *A61P 35/00* (2006.01)

(21) International Application Number:

PCT/IB2010/002543

(22) International Filing Date:

23 September 2010 (23.09.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/245,372 24 September 2009 (24.09.2009) US

(71) Applicant (for all designated States except US): **WISTA LABORATORIES LTD.** [SG/SG]; 51 Ayer Rajah Crescent, #07-01/02, Singapore 139948 (SG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HILFIKER, Rolf** [CH/CH]; Solvias AG, Postfach, CH-4002 Basel (CH).  
**RAGER, Timo** [CH/CH]; Solvias AG, Postfach, CH-4002 Basel (CH).

(74) Agents: **CARLISLE, Julie** et al.; Mewburn Ellis LLP, 33 Gutter Lane, London EC2V 8AS (GB).

(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).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

Published:

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

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

19 May 2011

(48) Date of publication of this corrected version:

19 April 2012

(15) Information about Correction:

see Notice of 19 April 2012

(54) Title: PROCESS

(57) Abstract: Substantially pure methylthioninium chloride pentahydrate form A is prepared from methylthioninium chloride by phase equilibration of suspensions, crystallization or solvent evaporation, whereby the water content of the solvent corresponds to a water activity of at least 0.4 at 25°C, and controlled drying of said methylthioninium chloride pentahydrate form A within its stability ranges of humidity, pressure and temperature.



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