



PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : A61L 2/02 // 2/22, 9/14	A1	(11) International Publication Number: WO 99/66961 (43) International Publication Date: 29 December 1999 (29.12.99)
(21) International Application Number: PCT/AU99/00505 (22) International Filing Date: 22 June 1999 (22.06.99) (30) Priority Data: PP 4273 23 June 1998 (23.06.98) AU (71) Applicant (for all designated States except US): NO-VAPHARM RESEARCH (AUSTRALIA) PTY. LTD. [AU/AU]; 3-11 Primrose Avenue, Rosebery, NSW 2018 (AU). (72) Inventors; and (75) Inventors/Applicants (for US only): KRITZLER, Steven [AU/AU]; 9 Redgum Avenue, Cronulla, NSW 2230 (AU). SAVA, Alex [AU/AU]; 3/124 Paddington Street, Paddington, NSW 2021 (AU). (74) Agent: BALDWIN SHELSTON WATERS, 60 Margaret Street, Sydney, NSW 2000 (AU).	(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, 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, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>  *G00002*	

(54) Title: IMPROVED DISINFECTION**(57) Abstract**

The invention relates to a method of disinfection comprising the steps of sonicating a liquid disinfectant at a frequency selected to be above 1.5 MHz, preferably above 2 MHz in a nebulising chamber to produce a nebulised disinfectant product. The frequency of the ultrasonic energy and the formulation of the disinfectant to which the ultrasonic energy is applied is such that 90 % of microdroplets are between 0.8 and 2.0 micrometres in diameter. In preferred embodiments, the microdroplets are activated by the ultrasound and are substantially more effective than non-sonicated disinfectant. The invention also relates to compositions suitable for use in such methods which may include activatable agents, surfactants and/or agents to assist in drying.



162162

