



PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶: C08G 59/06, 59/56, C08J 9/04 // C08L 63:00	A1	(11) International Publication Number: WO 97/19125 (43) International Publication Date: 29 May 1997 (29.05.97)
(21) International Application Number: PCT/GB96/02822 (22) International Filing Date: 18 November 1996 (18.11.96) (30) Priority Data: 9523649.3 18 November 1995 (18.11.95) GB (71) Applicant (for all designated States except US): CIBA SPECIALTY CHEMICALS HOLDING INC. [CH/CH]; Klybeckstrasse 141, CH-4002 Basle (CH). (72) Inventor; and (73) Inventor/Applicant (for US only): WHITE, Peter, Drummond, Boys [GB/GB]; The Old Rectory, Aston Ingham, Ross-on-Wye, Hereford HR9 7LS (GB). (74) Agent: SHARMAN, Thomas; Ciba-Geigy plc, Patent Dept., Hulley Road, Macclesfield SK10 2NX (GB).		(81) Designated States: AL, AM, AU, BB, BG, BR, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG, KP, KR, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, <u>SG</u> , SI, SK, TR, TT, UA, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: REACTIVE RESIN MANUFACTURE		
(57) Abstract A method for the manufacture of one component, heat curable, thermosettable, epoxy resin systems and their placement in convenient container types, sizes and shapes, which comprises mixing: (A) epoxy resins, or epoxy containing compounds; (B) an amine solidifying system present in insufficient quantities to cause gelation after all the amino hydrogen atoms are consumed by epoxy groups, under the reaction conditions chosen for (A) and (B), and which yields a product with a Kofler Heat Bank melting point of less than 55 °C and melting point stability of at least six months at normal workshop temperatures; optionally (C) a hardener system for (A) and the reaction product of (A) and (B) which is different from (B) and remains substantially unreacted under the conditions of reaction chosen for (A) and (B) with (A) and (B); optionally (D) other additives that may be required to modify the physical properties of the cured or uncured composition; and optionally (E) an expanding agent in such a way that very little reaction is allowed to take place during the mixing operation between (A) and (B) and most of it takes place in the final shape or container it is needed in before further melt or other processing, provided that the reaction between (A) and (B) does not generate enough heat in the chosen shape or container to significantly activate reaction between the remaining epoxy groups and hardener (C), or expanding agent (E).		