



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C07C 253/10, 255/03	A1	(11) International Publication Number: WO 99/06359 (43) International Publication Date: 11 February 1999 (11.02.99)
(21) International Application Number: PCT/US98/15621 (22) International Filing Date: 28 July 1998 (28.07.98) (30) Priority Data: 08/902,438 29 July 1997 (29.07.97) US (71) Applicant: E.I. DU PONT DE NEMOURS AND COMPANY [US/US]; 1007 Market Street, Wilmington, DE 19898 (US). (72) Inventors: BUNEL, Emilio, Enrique; 521 Andover Road, Wilmington, DE 19803 (US). McNULTY, Kenneth, C.; 701 Rockland Trail, P.O. Box 101, Rockland, DE 19732 (US). (74) Agent: TULLOCH, Rebecca, W.; E.I. du Pont de Nemours and Company, Legal Patent Records Center, 1007 Market Street, Wilmington, DE 19898 (US).		(81) Designated States: CA, CN, ID, JP, KR, SG, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>
(54) Title: IMPROVED HYDROCYANATION PROCESS (57) Abstract <p>The present invention provides a process for hydrocyanation comprising reacting a nonconjugated, ethylenically unsaturated compound in a two phase process solvent with HCN in the presence of a Lewis acid promoter and a catalyst system comprising zero-valent nickel and an organic phosphorous containing ligand having the structure $(PR_2)_nR'$ where n is an integer from 1 to 2, R and R' are organic residues which may be the same or different and where the R or R' contains at least one C9 to C40 aliphatic group positioned as a tail extending away from the primary ligand structure rendering the ligand lipophilic.</p>		