

30/10/02

200 20 65 76 1

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

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
8 November 2001 (08.11.2001)

PCT

(10) International Publication Number
WO 01/83567 A3(51) International Patent Classification⁷: C07B 63/04.
C08F 4/04

Andrew, J.; 70 Silver Beech Road, Southbury, CT 06488 (US).

(21) International Application Number: PCT/US01/10625

(74) Agent: REITENBACH, Daniel: Uniroyal Chemical Company, Inc., 199 Benson Road, Middlebury, CT 06749 (US).

(22) International Filing Date: 3 April 2001 (03.04.2001)

(25) Filing Language: English

(81) Designated States (national): BR, CA, CN, ID, JP, KR, MX, SG.

(26) Publication Language: English

(84) Designated States (regional): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).

(30) Priority Data:
09/564,221 3 May 2000 (03.05.2000) US

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(71) Applicant: UNIROYAL CHEMICAL COMPANY, INC. [US/US]; 199 Benson Road, Middlebury, CT 06749 (US).

(72) Inventors: GEELAN, Brendan, J.; 35 Contina Road, East Haven, CT 06513 (US). BENAGE, Brigitte; 79 Richard Avenue, Wolcott, CT 06716 (US). ABRUS-CATO, Gerald, J.; 571 Churchill Street, Southington, CT 06489 (US). SCHLUP, Kirk, A.; 22 Fairground Road, Woodbury, CT 06798 (US). GREWAL, Ruben, S.; 178 Parkman Street, Oakville, CT 06779 (US). EISENSTEIN,

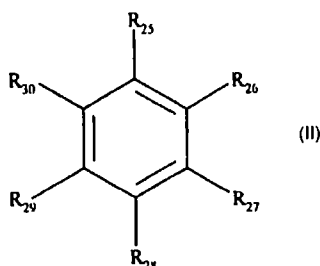
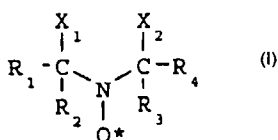
(88) Date of publication of the international search report:
6 June 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



162162

(54) Title: NITROAROMATIC SOLUBILIZER FOR NITROXYLS IN AROMATIC SOLVENTS



(57) Abstract: Disclosed herein is a method for increasing the solubility of a compound having the structural formula (I), in an aromatic hydrocarbon solvent comprising adding to said solvent a nitroaromatic compound having the structure (II) wherein, in formula (II), R₂₅, R₂₆, R₂₇, R₂₈, R₂₉ and R₃₀ are independently selected from the group consisting of hydrogen, alkyl, aryl, cycloalkyl, heterocyclic, substituted alkyl, substituted aryl, OR₁₁, NR₁₁R₁₂, SR₁₁, NO₂, NO, CN, COR₁₁, COOR₁₁, CONR₁₁R₁₂, NR₁₁COR₁₂, halogen, and/or any two adjacent groups can be taken together to form ring structures(s) of five to seven members, provided that at least one of R₂₅, R₂₆, R₂₇, R₂₈, R₂₉ and R₃₀ is NO₂, and R₁₁ and R₁₂ are independently selected from the group consisting of hydrogen, alkyl, aryl, benzyl, cyclic, heterocyclic, and substituted alkyl or aryl where the substituents are C, O, N, S, or P, or R₁₁ and R₁₂ can be taken together to form a ring structure of five to seven members and, in formula (I), R₁ and R₄ are independently selected from the group consisting of hydrogen, alkyl, and heteroatom-substituted alkyl and R₂ and R₃ are independently selected from the group consisting of alkyl and heteroatom-substituted alkyl; and X₁ and X₂ (1) are independently selected from the group consisting of halogen, cyano, COOR₇, -S-COR₇, -OCOR₇, (wherein R₇ is alkyl or aryl), amido, -S-C₆H₅, carbonyl, alkenyl, or alkyl of 1 to 15 carbon atoms, or (2) taken together, form a ring structure of five to seven members with the nitrogen.

WO 01/83567 A3



ACTION