



162162

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

(19) World Intellectual Property Organization

International Bureau

WIPO



G00002

(43) International publication date

3 May 2001 (03.05.2001)

PCT

(10) International publication number

WO 01/30147 A1

(51) International patent classification⁷:
C11D 1/825

A01N 25/30,

des Batistons, Cidex 229, F-06330 Roquefort-Les-Pins (FR).

(21) International application number: PCT/FR00/02977

(22) International filing date: 26 October 2000 (26.10.2000)

(25) Language of filing: French

(26) Language of publication: French

(30) Data relating to the priority:
99/13,842 29 October 1999 (29.10.1999) FR

(71) Applicant (for all designated States except US): AVENTIS CROPSCIENCE SA [FR/FR]; 55, avenue René Cassin, CP 106, F-69266 Lyon Cedex 09 (FR).

(72) Inventors; and

(75) Inventors/Applicants (US only): FARRE, François [FR/FR]; Lieu-dit "Les Chopines", F-69480 Lucenay (FR). SEGAUD, Christian [FR/FR]; 14, avenue Ampère, F-69370 Saint Didier au Mont d'Or (FR). ZERROUK, Robert [FR/FR]; 11 chemin

(74) Representative: BALMEFREZOL, Ludovic; Aventis CropScience SA, Boîte postale 9163, F-69263 Lyon Cedex 09 (FR).

(81) Designated states (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, 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, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated states (regional): ARIPO Patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, 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).

[continued on next page]

As printed

(54) Title: NOVEL PESTICIDE AND/OR GROWTH REGULATING COMPOSITIONS WITH PARTICULAR NON-IONIC SURFACTANT

(54) Titre: NOUVELLES COMPOSITIONS PESTICIDES ET/OU REGULATRICES DE CROISSANCE A AGENT TENSIO-ACTIF NON IONIQUE PARTICULIER

(57) Abstract: The invention concerns pesticide and/or growth regulating compositions for plants containing a particular non-ionic surfactant comprising two different constituents: 1) whereof the molecular mass ranges between 200 and 3000 g/mol, preferably between 300 and 1000 g/mol; 2) whereof the dynamic tension, measured in water, at a concentration of 0.4g per litre at a frequency of 10 Hz, ranges between 35 and 73 mN/m; 3) and each comprising: 3(i) a hydrophobic part selected among the C13 oxo alcohol groups; isodecyl-isodecyl-hydroxy alcohol; C12-C14 linear alcohols; C16-C18 linear alcohols; lauryl alcohol; myristic alcohol; do-and/or tetradecanols; distyrylphenol-di-(phenyl-1-ethyl) phenols; nonylphenols; acetylene diols, in particular tetra-(methyl-2,4,7,9)-deca-5-yne; tri-decyclic alcohols; and whereof the molar mass ranges between 100 and 1500 g/mol, preferably between 150 and 400 g/mol; 3(ii) a hydrophilic part selected among a poly-(oxy 1,2 ethanedi-yl), whereof the molar mass ranges between 80 and 2000 g/mol, preferably between 100 and 900 g/mol; 4) the difference in molar mass of the hydrophobic parts of said two chemical constituents is less than 140 g/mol; 5) the difference in molar mass of the hydrophilic parts of said two chemical constituents being less than 360 g/mol. The invention also concerns the non-ionic surfactant.

(57) Abrégé: Compositions pesticides et/ou régulatrices de croissance des plantes contenant un agent tensio-actif non ionique particulier comprenant deux composantes différentes 1) dont la masse moléculaire est comprise entre 200 et 3 000g/mol, de préférence comprise entre 300 et 1 000g/mol; 2) dont la tension dynamique, mesurée dans l'eau, à une concentration de 0,4 g par litre et à une fréquence de 10 H, est comprise entre 35 et 73 mN/m; 3) et comprenant chacune: 3(i) une partie hydrophobe choisie parmi les groupements alcools oxo en C13; alcool isodécylique-isodécyl-hydroxy; alcools linéaires en C12-C14; alcools linéaires en C16-C18; alcool laurylique; alcool myristique; do et/ou tétradécaneols; distyrylphénol-di-(phényl-1-éthyl)-phénols; nonylphénols; diols acétyléniques, notamment le tétra-(méthyl-2,4,7,9)-déca-5-yne; alcools tri-d-cycliques; et dont la masse molaire est comprise entre 100 et 1500 g/mol, de préférence comprise entre 150 et 400 g/mol; 3(ii) une partie hydrophile choisie parmi un radical poly(oxy1,2 éthanédi-yl), dont la masse molaire est comprise entre 80 et 2 000g/mol, de préférence comprise entre 100 et 900 g/mol; et telles que 4) la différence des masses molaire des parties hydrophobes de ces deux composantes chimiques est inférieure à 140 g/mol; et que 5) la différence des masses molaire des parties hydrophiles de ces deux composantes chimiques est inférieure à 360 g/mol. L'agent tensio-actif non ionique en tant que tel fait également partie de la présente invention.

WO 01/30147 A1

Published:

- *With the International Search Report.*
- *With the amended claims.*

For an explanation of the two-letter codes and the other abbreviations, reference is made to the explanations ("Guidance Notes on Codes and Abbreviations") at the beginning of each regular edition of the PCT Gazette.