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Fase nacional de Solicitud
de Patente PCT
RODNEY WALTER BROUARD

En relación con el expediente de la referencia y dando cumplimiento al Oficio No. 3465 de Marzo 20 de 2009 recaído sobre este asunto por medio del presente escrito me permito manifestarles lo siguiente:

1. El documento DATABASE WPI, Section Ch, Week 198023, Derwent Publications Ltd., London, GB; Class CO#, AN 1980-40418C, XP 002185356 & JP 550555102 A (NAKANO SUTEN KK); 22 April 1980 (1980-04-22) abstract.
2. El documento DATABASEW CAB Online. CAB INTERNATIONAL, WALLINGFORD, OXON GB; M.A. EL-HARIRY ET AL.: "Correlation between physico-chemical properties of some local surfactants and their insecticidal activity against the faba bean aphid, Aphis craccivora (Koch)"; retrieved from STN-INTERNATIONAL, accesoión no. 95;194739 CABA; XP002185355 abstract & EGYPTIAN JOURNAL OF AGRICULTURAL RESEARCH, vol. 69 no. 1, 1991, pages 289-296.

De Ustedes Atentamente,


LUIS FELIPE CASTILLO GIBSON
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89

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DN 951112668

TI Correlation between physico-chemical properties of some local
surfactants and their ***insecticidal*** activity against th
faba bean aphid, *Aphis craccivora* (Koch)

AU El-Hariry, M. A.; El-Sisi, A. G.

CS Plant Protection Research Institute, Agricultural Research Centre, Dokki
Egypt.

SO Egyptian Journal of Agricultural Research, (1991) Vol. 69, No. 1, pp.
289-296. 7 ref.

Journal

LA English

SL Arabic

AB Two groups of ***anionic*** and ***nonionic*** ***surfactants***
were evaluated against *Aphis craccivora*. The ***anionic***
surfactants emulgator B, calcium dodecyl benzene sulfonate and
nastabon had LC50s of 0.27, 0.17 and 0.14%, resp., while the
nonionic ***surfactants*** polyethylene glycol 600 dioleate,
polyethylene glycol 600 dilurate and polyethylene glycol 600 mono-laurat
had LC50s of 0.59, 0.2 and 0.4%. Semi-field experiments on faba bean
seedlings showed that all the ***surfactants*** could be used at
1-1.5% for the control of *A. craccivora* without any phytotoxicity. There
was a correlation between increasing insecticidal efficiency and
decreasing surface tension of the ***surfactant*** solutions.

CC HH400 Control by Chemicals and Drugs; FF600 Pests, Pathogens and Biogeni
Diseases of Plants; LL900 Animal Toxicology, Poisoning and Pharmacology

GT Egypt

BT insects; arthropods; invertebrates; animals; arthropod pests; pests;
pesticides; *Aphis*; Aphididae; Aphidoidea; Sternorrhyncha; Homoptera;
Hemiptera; *Vicia*; Papilionoideae; Fabaceae; Fabales; dicotyledons;
angiosperms; Spermatophyta; plants; Mediterranean Region; Developing
Countries; Middle East; North Africa; Africa

CT ***surfactants*** ; insect pests; insect control; faba beans;
insecticides; chemical control

Home > CABI Abstract

Title: Correlation between physico-chemical properties of some local surfactants and their insecticidal activity against the faba bean aphid, *Aphis craccivora* (Koch).

Personal Authors: El-Hariry, M. A., El-Sisi, A. G.

Author Affiliation: Plant Protection Research Institute, Agricultural Research Centre, Dokki, Egypt.

Editors: No editors

Document Title: Egyptian Journal of Agricultural Research



Abstract:

Two groups of anionic and nonionic surfactants were evaluated against *Aphis craccivora*. The anionic surfactants emulgator B, calcium dodecyl benzene sulfonate and nastabon had LC50s of 0.27, 0.17 and 0.14%, resp., while the nonionic surfactants polyethylene glycol 600 dioleate, polyethylene glycol 600 dilurate and polyethylene glycol 600 mono-laurate had LC50s of 0.59, 0.2 and 0.4%. Semi-field experiments on faba bean seedlings showed that all the surfactants could be used at 1-1.5% for the control of *A. craccivora* without any phytotoxicity. There was a correlation between increasing insecticidal efficiency and decreasing surface tension of the surfactant solutions.

Publisher:

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XP-002185356

92,

AN - 1980-40418C [23]

CPY - NAKA-N

DC - C03

FS - CPI

IC - A01N37/02

MC - C10-C04E C12-A02 C12-M07

M2 - [01] J1 M210 M211 M231 M260 M281 M311 M320 J171 M620 P002 P241 P242

M510 M520 M530 M540 M781 R003 R023 R024 M416 M902

PA - (NAKA-N) NAKANO SUTEN KK

PN - JP55055102 A 19800422 DW198023 000pp

- JP57021241B B 19820506 DW198222 000pp

PR - JP19780127407 19781018

XIC - A01N-037/02

AB - J55055102 Agricultural fungicide contains aq. soln. of acetic acid with a concn. of 0.005-0.25%.

- Vinegar is specifically. It may be added with egg shell, NaHCO_3 and/or NaOH . When the concentration exceeds 0.25%, phytotoxicity occurs. Suitable concentration is in the range from 0.01% to 0.20%. It is possible to add spreader such as surfactant. Application is conducted at interval of 2-10 days. Good results can be obtained by applying aqueous solution of acetic acid with a concn. of 0.05% at an interval of 5-7 days. It can be applied even at harvest time.

- The fungicide is effective in the control of powdery mildew of cucumber, melon, egg-plant, sweet melon; and downy mildew of cucumber, melon, sweet melon.

IW - FUNGICIDE CONTAIN ACETIC ACID VINEGAR CONTROL MILDEW CUCUMBER MELON SCLEROTINIA ROT CUCUMBER STRAWBERRY CHINESE CABBAGE

IKW - FUNGICIDE CONTAIN ACETIC ACID VINEGAR CONTROL MILDEW CUCUMBER MELON SCLEROTINIA ROT CUCUMBER STRAWBERRY CHINESE CABBAGE

NC - 001

OPD - 1978-10-18

ORD - 1980-04-22

PAW - (NAKA-N) NAKANO SUTEN KK

TI - Fungicide contg. acetic acid esp. vinegar - used to control mildew of cucumber and melon and sclerotinia rot in cucumber, strawberry and chinese cabbage

AGENT FOR CONTROLLING BLIGHT OF PLANT

Publication number: JP55055102 (A)

Publication date: 1980-04-22

Inventor(s): TSUBURAYA ETSUZOU; OYAMA NAKATSU; KAWAMURA KICHIYA; MASAI HIROSHI

Applicant(s): NAKANO SUTEN KK

Classification:

- International: A01N37/02; A01N37/02; (IPC1-7): A01N37/02

- European:

Application number: JP19780127407 19781018

Priority number(s): JP19780127407 19781018

Also published as:

JP57021241 (B)

JP1132738 (C)

Abstract of JP 55055102 (A)

PURPOSE: To provide the title agent having low-toxicity and high safety, applicable to crops in harvest season as well as nursery season and growing season, and especially effective to powdery mildew and downy mildew of various vegetables, containing an aqueous solution of acetic acid having a specific concentration. CONSTITUTION: An aqueous solution containing 0.005-0.25%, pref. 0.01-0.20% of acetic acid, such as vinegar, a vinegar solution obtained by adding 0.3-0.9 part by weight of egg shell, sodium bicarbonate, and/or sodium hydroxide to vinegar containing 1 part by weight of acetic acid, synthetic acetic acid, or aqueous solution obtained by diluting the above with water. The solution may contain a spreading agent such as nonionic surface active agent. It is especially effective to powdery mildew and downy mildew of cucumber, melon, eggplant, strawberry, etc.; It is scattered to the crops at intervals of 2-10 days. The amount of other pesticides which is to be applied in the growing season can be reduced by scattering the agent of this invention in the harvest season.

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②① N° d'enregistrement national :

85 18503

⑤① Int Cl⁴ : A 01 N 41/04.

①②

DEMANDE DE BREVET D'INVENTION

A1

②② Date de dépôt : 13 décembre 1985.

③① Priorité : DE, 15 décembre 1984, n° P 34 45 853.0.

⑦① Demandeur(s) : Société dite : BAYER AKTIENGESELL-
SCHAFT. — DE.

⑦② Inventeur(s) : Spyros G. Georgopoulos et Apostolo K.
Grigoriu.

④③ Date de la mise à disposition du public de la
demande : BOPI « Brevets » n° 25 du 20 juin 1986.

⑥① Références à d'autres documents nationaux appa-
rentés :

⑦③ Titulaire(s) :

⑦④ Mandataire(s) : Rinuy, Santarelli.

⑤④ Compositions fongicides sélectives contenant des sels d'acides benzènesulfoniques et leurs applications.

⑤⑦ L'invention concerne des compositions fongicides sélec-
tives.

Elle a trait à l'utilisation de sels connus d'acides benzènesul-
foniques de formule (I)



dans laquelle M est un équivalent de métal alcalin, de métal
alcalino-terreux ou d'ammonium éventuellement substitué et R
est un groupe alkyle à chaîne droite ou ramifié, éventuellement
en présence d'éthers d'alkylarylpolglycols, comme fongicide
sélectif.

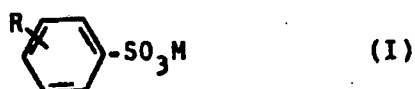
Application à la lutte contre des oomycètes.

FR 2 574 626 - A1

REVENDICATIONS

1. Compositions fongicides sélectives, caractérisées en ce qu'elles contiennent au moins un sel d'acides benzènesulfoniques de formule (I)

5



10 dans laquelle

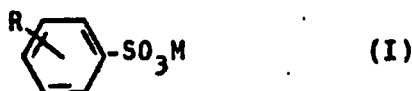
M est un équivalent de métal alcalin, de métal alcalino-terreux ou d'ammonium éventuellement substitué,

et

15 R est un groupe alkyle à chaîne droite ou ramifié.

2. Compositions fongicides sélectives suivant la revendication 1, caractérisées en ce qu'elles contiennent des composés de formule (I)

20



25 dans laquelle

M est un équivalent de sodium, de potassium, de magnésium ou de calcium ou un groupe 2-hydroxyéthylammonium

et

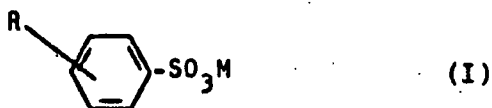
30 R est un groupe alkyle à chaîne droite ou ramifié ayant 4 à 14 atomes de carbone.

3. Compositions fongicides sélectives suivant les revendications 1 et 2, caractérisées en ce qu'elles contiennent 10 à 100% en poids des substances actives.

35

4. Utilisation de sels d'acides benzène-sulfoniques de formule (I)

5



dans laquelle

10

M est un équivalent de métal alcalin, de métal alcalino-terreux ou d'ammonium éventuellement substitué

et

R est un groupe alkyle à chaîne droite ou ramifié,

15

pour combattre des oomycètes.

5. Procédé de préparation de compositions fongicides sélectives, caractérisé en ce qu'on mélange des sels d'acides benzènesulfoniques de formule (I) suivant la revendication 1 avec des diluants et/ou des agents tensio-actifs.

20

6. Procédé pour combattre des oomycètes, caractérisé en ce qu'on fait agir des sels d'acides benzènesulfoniques de formule (I) suivant la revendication 1 sur des oomycètes et/ou sur leur milieu.

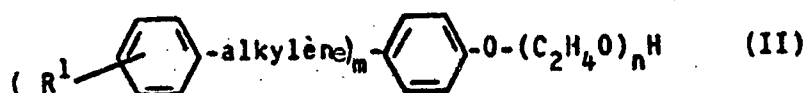
25

7. Procédé de préparation de compositions fongicides sélectives suivant les revendications 1 à 5, caractérisé en ce qu'on mélange des sels d'acides benzènesulfoniques de formule (I) avec des éthers d'alkyl-arylpolyglycols de formule (II) et le cas échéant avec des diluants et/ou des agents tensio-actifs.

30

8. Procédé de préparation de compositions fongicides sélectives suivant la revendication 7, caractérisé en ce que les éthers d'alkylarylpolyglycols sont définis par la formule (II)

35



5

dans laquelle

R^1 est un groupe alkyle inférieur à chaîne droite ou ramifié,

10 alkylène est un groupe alkylène inférieur à chaîne droite ou ramifié,

m est un nombre de 2 à 7

et

n est un nombre allant jusqu'à 30.

15 9. Procédé de préparation de compositions fongicides sélectives suivant les revendications 7 et 8, caractérisé en ce que dans la formule (II)

R^1 est un groupe alkyle à chaîne droite ou ramifié ayant 1 à 4 atomes de carbone,

20 alkylène est un groupe alkylène à chaîne droite ou ramifié ayant 1 à 4 atomes de carbone,

m est un nombre de 2,0 à 5,0

et

n est un nombre de 15 à 30.

25 10. Utilisation du sel de monoéthanolamine de l'acide p-dodécylbenzènesulfonique ou du mélange du sel de calcium de l'acide p-dodécylbenzènesulfonique et d'un éther d'alkylarylpolglycol dans le butanol et le xylène suivant la revendication 4 pour combattre
30 des oomycètes.