Section 7, environmental fate and ecotoxicology

Database searches

10: Antonious GF.
Impact of soil management and two botanical insecticides on urease and invertase activity.

11: Johnson S, Dureja P, Dhingra S.
Photostabilizers for azadirachtin-A (a neem-based pesticide).

The antimitotic effect of the neem terpenoid azadirachtin on cultured insect cells.

13: Kumar M, Upeti RK.
In vitro effect of azadirachtin on aerobic bacteria of rat intestine.

14: Ayad TH, Dorrah MA, Shaurub el-SH, el-Sadawy HA.
Effects of the entomopathogenic nematode, Heterorhabditis bacteriophora HP 88 and azadirachtin on the immune defence response and phenoloxidase of Parasarcophaga surcufi larvae (Diptera: Sarcophagidae).

15: Billker O, Shaw MK, Jones IW, Ley SV, Mordue AJ, Sinden RE.
Azadirachtin disrupts formation of organised microtubule arrays during microgametogenesis of Plasmodium berghei.

16: Bream AS, Ghoneim KS, Tanani MA, Nassar MI.
Respiratory metabolic responsiveness during the pupal stage of the red palm weevil, Rynchophorus ferrugineus (Coleoptera: Curculionidae) to certain plant extracts.

17: Thompson DG, Kreutzweiser DP, Staznik B, Chartrand D, Capell S. Related Articles, Links
Fate and persistence of Azadirachtin a following applications to mesocosms in a small forest lake.

18: Caboni P, Cabras M, Angioni A, Russo M, Cabras P.
Persistence of azadirachtin residues on olives after field treatment.
PMID: 12033816 [PubMed - indexed for MEDLINE]

19: Johnson S, Dureja P.
Effect of surfactants on persistence of azadirachtin-A (neem based pesticide).

20: Josephrajkumar A, Subrahmanyam B.

21: Goktepe I, Plhak L.C.

22: Parida MM, Upadhyay C, Pandya G, Jana AM.


24: Kumar L, Parmar BS.

25: Johnson S, Patra D, Dureja P.

26: George J, Bais HP, Ravishankar GA.

27: Kumar J, Parmar BS.

28: Sayah F, Idamour M, Soranzo L, Karlinsky A.

29: Punzo F.

30: Mitchell MJ, Smith SL, Johnson S, Morgan ED.
Doc. III-A11

Section 7, environmental fate and ecotoxicology

Database searches

31: Didier A, Loor F.
The abamectin derivative ivermectin is a potent P-glycoprotein inhibitor.

32: Singh K, Singh A, Singh DK.
Molluscicidal activity of neem (Azadirachta indica A. Juss).

33: Rembold H, Annadurai RS.
Azadirachtin inhibits proliferation of SF9 cells in monolayer culture.

34: Banerjee S, Rembold H.
Azadirachtin A interferes with control of serotonin pools in the neuroendocrine system of locusts.

35: Garcia ES, Gonzales MS, Azambuja P.
Effects of azadirachtin in Rhodnius prolixus: data and hypotheses.

36: Smith SL, Mitchell MJ.
Effects of azadirachtin on insect cytochrome P-450 dependent ecdysone 20-monooxygenase activity.

Database:
agricola

Search profile:
Margosa extract

No hits

Search profile:
NeemAzal AND efate

No hits

Search profile:
Azadirachtin AND efate
Section 7, environmental fate and ecotoxicology

Database searches

No hits

Search profile:
NeemAzal AND degradation

No hits

Search profile:
Azadirachtin AND degradation

No hits

Database:
pubmed

Search profile:
Margosa

1: MUKHERJEE S, SRIVASTAVA HC.
Structure of the neem (Azadirachta indica) gum.

Search profile:
Margosa extract

No hits

Search profile:
NeemAzal

1: Athanassiou CG, Kontodimas DC, Kavallieratos NG, Veroniki MA.
Insecticidal effect of NeemAzal against three stored-product beetle species on rye and oats.

2: Premachandra DW, Borgemeister C, Poehling HM.
Effects of neem and spinosad on Ceratothripoides claratris (Thysanoptera: Thripidae), an important vegetable pest in Thailand, under laboratory and greenhouse conditions.

3: Saber M, Hejazi MJ, Hassan SA.
Doc. III-A11

Section 7, environmental fate and ecotoxicology

Database searches

Effects of azadirachtin/Neemazal on different stages and adult life table parameters of Trichogramma cacoeciae (Hymenoptera: Trichogrammatidae).

4: Hummel E, Kleeborg H.
First results of the application of a new Neemazal powder formulation in hydroponics against different pest insects.

5: Schroer S, Sermann H, Reichmuth C, Buttner C.
Effectiveness of different emulsifiers for neem oil against the western flower thrips (Thysanoptera, Thripidae) and the warehouse moth (Lepidoptera, Pyralidae).

6: Boschitz C, Grunewald J.
The effect of NeemAzal on Aedes aegypti (Diptera: Culicidae).

Search profile:
NeemAzal extract

1: Boschitz C, Grunewald J.
The effect of NeemAzal on Aedes aegypti (Diptera: Culicidae).

Database:
agricola

Search profile:
Margosa

1: Ascher, K.R.S.
Nonconventional insecticidal effects of pesticides available from the neem tree, Azadirachta indica.

2: Popham, S.
The mango tree (Azadirachta indica).

3: Doria, J.J.
Neem: the tree insects hate.

4: Sitaramaiah, K.
Section 7, environmental fate and ecotoxicology

Database searches

Effect of temperature on decomposition of margosa cake and on survival of Tylenchorhynchus elegans. 

5: Murugasappan, V., et al. 
N-lignin and margosa (neem) seed cake-blended urea as nitrogen source for wheat. 

6: Sitaramaiah, K., et al. 
Effect of organic amendment on phenolic content of soil and plant and response of Meloidogyne javanica and its host to related compounds. 

7: Sitaramaiah, K., et al. 
Role of fatty acids in margosa cake applied as soil amendment in the control of nematodes. 

Influence of interculture of marigold and margosa with some vegetable crops on plant growth and nematode population. 

Effect of margosa & marigold root exudates on mortality & larval hatch of certain nematodes. 

Margosa (neem) seed cake as an inhibitor of nitrification. 

Search profile: 
Margosa extract 

No hits

Search profile: 
NeemAzal

1: Thoeming, G., et al. 
Integrating Soil-Applied Azadirachtin with Amblyseius cucumeris (Acari: Phytoseiidae) and Hypoaspis azulifer (Acari: Laelapidae) for the Management of Frankliniella occidentalis (Thysanoptera: Thripidae) [electronic resource] 

2: Babul Hossain, M., et al.
Non-target effects of three biorational insecticides on two endolary parasitoids of Liriomyza sativae (Dipt., Agromyzidae).

3: Kumar, P., et al.
Effects of different application methods of azadirachtin against sweetpotato whitefly Bemisia tabaci Gennadius (Hom., Aleyrodidae) on tomato plants.

Effects of neem and spinosad on Ceratocthripoides claratris (Thysanoptera: Thripidae), an important vegetable pest in Thailand, under laboratory and greenhouse conditions.

5: Athanassiou, C.G., et al.
Insecticidal effect of NeemAzal against three stored-product beetle species on rye and oats.

Potential of NeemAzal for the control of coffee leaf pests.

7: Saber, M., et al.
Effects of azadirachtin/Neemazal on different stages and adult life table parameters of Trichogramma cacoeciae (Hymenoptera: Trichogrammatidae).

8: Elling, K. von., et al.
Effect of NeemAzal-T/S, a commercial neem product, on different developmental stages of the common greenhouse whitefly Trialeurodes vaporariorum Westwood (Hom., Aleyrodidae).

Neemazal, a product of neem (Azadirachta indica), induces resistance in pea (Pisum sativum) against Erysiphe pisi.

Search profile:
Neem extract

1: Santos, A.C.G. dos, et al.
Uso de extrato de nim no controle de acariase por Myobia musculi Schrank (Acari: Miobidae) e Myocoptes muscinus Koch (Acari: Listrophiidae) em camundongos (Mus musculus var. albina L.).
Section 7, environmental fate and ecotoxicology

Database searches

Citronella as an insect repellent in food packaging.
Journal of agricultural and food chemistry. 2005 June 1, v. 53, no. 11, p. 4633-4636.

Behavioral and developmental effects of neem extracts on Clavigralla scutellaris (Hemiptera: Heteroptera: Cercidae) and its egg parasitoid, Gryon fulviventre (Hymenoptera: Scelionidae).

Rhizobacteria-based bio-formulations for the management of fruit rot infection in chillies.
Crop protection. 2004 Sept., v. 23, no. 9, p. 835-843.

5: Bogorni, P.C., et al.
Bicatividade de extratos aquosos de Trichilia spp. sobre Spodoptera frugiperda (J.E. Smith) (Lepidoptera: Noctuidae) em milho.

Storage temperature of neem kernel extract: differential effects on oviposition deterrency and larval toxicity of Callosobruchus maculatus (F.) (Coleoptera: Bruchidae).
Environmental entomology. 2003 Dec., v. 32, no. 6, p. 1283-1289.

Azadirachta indica leaf extract induces resistance in barley against leaf stripe disease.

Effect of neem seed extract on the brown citrus aphid (Homoptera: Aphididae) and its parasitoid Lysiphlebus testaceipes (Hymenoptera: Aphidiidae).

9: Datta, S., et al.
Pesticidal properties of parthenin (from Parthenium hysterophorus) and related compounds.

10: Kreutzweiser, D.P., et al.
Community-level responses by stream insects to neem products containing azadirachtin.

11: Melathopoulos, A.P., et al.
Comparative laboratory toxicity of neem pesticides to honey bees (Hymenoptera: Apidae), their mite parasites Varroa jacobsoni (Acarri: Varroidae) and Acarapis woodi (Acarri: Taronemidiae), and brood pathogens Paenibacillus larvae and Asephaera apis.
Section 7, environmental fate and ecotoxicology

Database searches

Effectiveness of neem extracts and carvacrol against Thecodiopsis japonensis and Matsucoccus thunbergianae under field conditions.

Effect of uneven application of azadirachtin on reproductive and anti-feedant behaviour of Rhizoperta dominica (Coleoptera: Bostrichidae).

Effectiveness of antifungal compounds against rose powdery mildew (Sphaerotheca pannosa var. rossae) in glasshouses.

Selectivity of insecticides to Encarsia pergandiella (Hymenoptera: Aphelinidae), an endoparasitoid of Bemisia argentifolii (Hemiptera: Aleyrodidae).

16: Wan, M.T., et al.
Evaluation of the acute toxicity to juvenile Pacific Northwest salmon of azadirachtin, neem extract, and neem-based products.

17: Cohen, E., et al.
Nimbolide is the principal cytotoxic component of neem-seed insecticide preparations.

Deposition and bioassay of insecticides applied by leaf dip and spray tower against Bemisia argentifolii nymphs (Homoptera: Aleyrodidae).

19: Shapiro, M., et al.
Effect of neem seed extract upon the gypsy moth (Lepidoptera: Lymantriidae) and its nuclear polyhedrosis virus.

Insect growth regulating effects of neem extract and azadirachtin on aphids.

Biological activity of neem seed kernel extracts and synthetic azadirachtin against larvae of Plutella xylostella L.
Section 7, environmental fate and ecotoxicology

Database searches

22: Prokopy, R.J., et al.
Comparative effects of Margosan-O (neem extract) and Imidan on plum curculio and apple maggot.

Evaluation of neem extract for control of Southern chinch bug in St. Augustinegrass.

24: Zehnder, G.W., et al.
Activity of neem extract and Margosan-O for control of Colorado potato beetle in Virginia.

25: Larson, R.O.
Commercialization of the neem extract Margosan-O in a USDA collaboration.

26: Parkman, P., et al.
Sublethal effects of neem seed extract on adults of Liriomyza trifolii (Diptera: Agromyzidae).

27: Marion, D.F., et al.
Systemic activity of neem extract against the birch leafminer.

Use of neem extract as a systemic treatment for Liriomyza trifolii control on greenhouse chrysanthemum.

29: Adler, V.E., et al.
Effects of a formulation of neem extract on six species of cockroaches (Orthoptera: Blaberidae, Blattidae and Blattellidae).

30: Adler, V.E., et al.
Antifeedant bioassays of neem extract against the Carolina grasshopper, walkingstick, and field cricket.

31: Fagoonee, I.
Effect of azadirachtin and of a neem extract on food utilization by Crocidoloma binotalis.

Mineralization of urea coated with neem extract and response of wheat.