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(54) Titre : MELANGES PESTICIDES
(54) Title: PESTICIDAL MIXTURES

(57) **Abrégé/Abstract:**

The invention relates to a pesticidal composition comprising as active ingredient a mixture consisting of one antranilamide compound (A) as defined in the patent claims and at least one compound (B) as defined in the patent claims, to a process for the preparation of and to the use of such a composition, to a method of controlling pests using such a composition and to plant propagation material treated with such a composition.



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(54) Title: PESTICIDAL MIXTURES

(57) Abstract: The invention relates to a pesticidal composition comprising as active ingredient a mixture consisting of one antranilamide compound (A) as defined in the patent claims and at least one compound (B) as defined in the patent claims, to a process for the preparation of and to the use of such a composition, to a method of controlling pests using such a composition and to plant propagation material treated with such a composition.

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DEMANDE OU BREVET VOLUMINEUX

LA PRÉSENTE PARTIE DE CETTE DEMANDE OU CE BREVET COMPREND PLUS D'UN TOME.

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THIS IS VOLUME 1 OF 2
CONTAINING PAGES 1 TO 227

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Pesticidal mixtures

The invention relates to a pesticidal composition comprising as active ingredient a mixture consisting of at least two substances, to a process for the preparation of and to the use of such a composition, to a method of controlling pests using such a composition, to plant propagation material treated with such a composition, to the use of a compound (A) as mentioned hereinbelow in the preparation of such a composition and to the use of a compound (B) as mentioned hereinbelow in the preparation of such a composition.

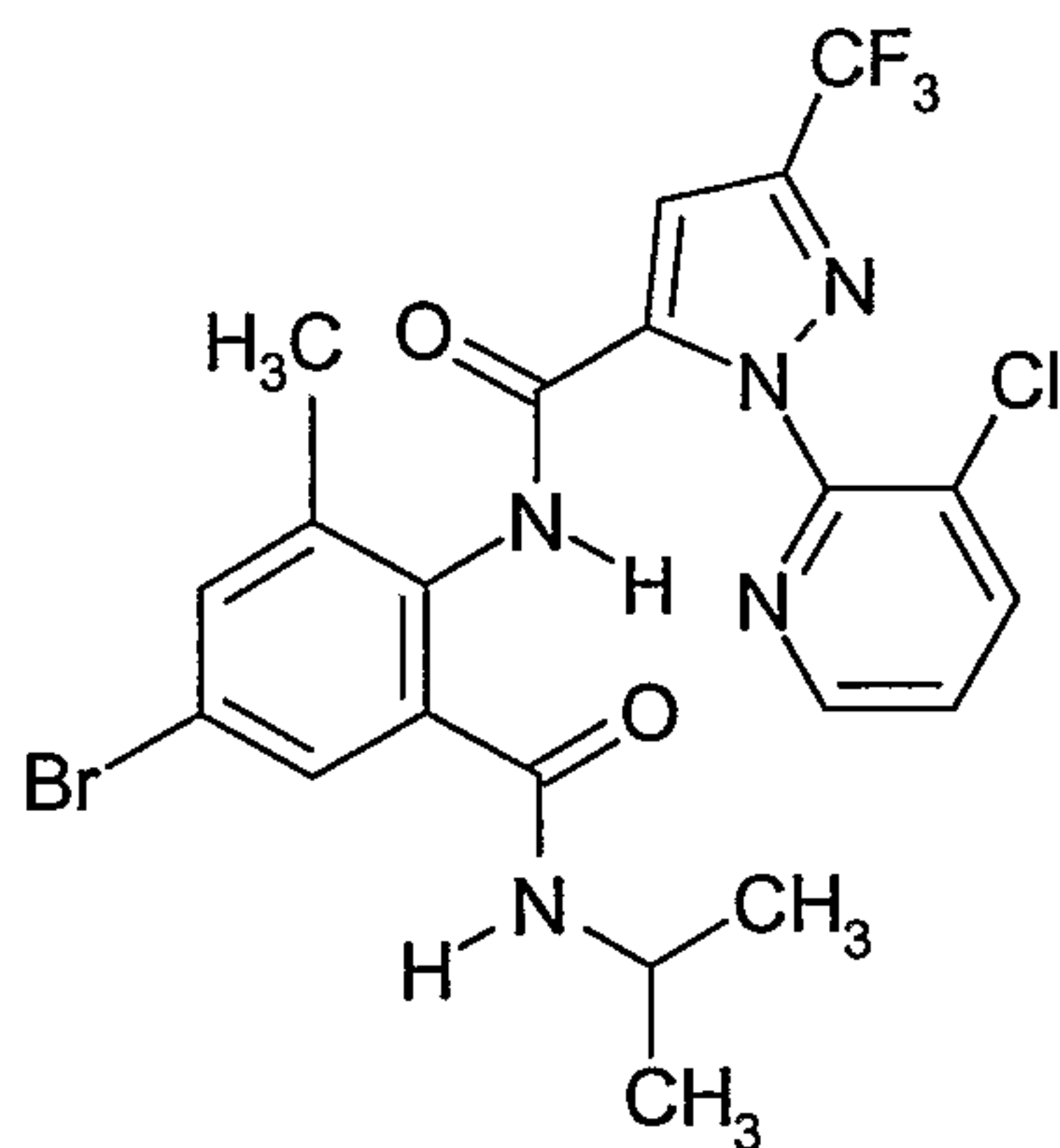
Certain pesticidal compositions are proposed in the literature, for example in WO 03/015518. The properties of those known compositions in the field of pest control are not, however, entirely satisfactory, for which reason there is a need to make available further compositions having pesticidal properties, that problem being solved in accordance with the invention by provision of the present pesticidal compositions.

The invention accordingly relates to {1} a pesticidal composition comprising as active ingredient a mixture consisting of at least two substances, namely a compound (A) as mentioned hereinbelow and one or more than one compound (B) as mentioned hereinbelow.

A preferred embodiment of the subject-matter {1} of the invention is {1.1} a pesticidal composition comprising as active ingredient a mixture consisting of at least two active substances, namely one compound (A) as mentioned hereinbelow and at least one compound (B) as mentioned hereinbelow.

A preferred embodiment of the subject-matter {1.1} of the invention is {1.1.1} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-1)

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(A-1)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematicide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

An especially preferred embodiment of the subject-matter {1.1.1} of the invention is {1.1.1.1} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-1) and the compound (B) is a compound selected from the group of substances consisting of

an adjuvant selected from the group of substances consisting of petroleum oils (alternative name) (628),

an acaricide selected from the group of substances consisting of 1,1-bis(4-chlorophenyl)-2-ethoxyethanol (IUPAC name) (910), 2,4-dichlorophenyl benzenesulfonate (IUPAC/Chemical Abstracts name) (1059), 2-fluoro-*N*-methyl-*N*-1-naphthylacetamide (IUPAC name) (1295), 4-chlorophenyl phenyl sulfone (IUPAC name) (981), abamectin (1), acequinocyl (3), acetoprole [CCN], acrinathrin (9), aldicarb (16), aldoxycarb (863), alpha-cypermethrin (202), amidithion (870), amidoflumet [CCN], amidothioate (872), amiton (875), amiton hydrogen oxalate (875), amitraz (24), aramite (881), arsenous oxide (882), AVI 382 (compound code), AZ 60541 (compound code), azinphos-ethyl (44), azinphos-methyl (45), azobenzene (IUPAC name) (888), azocyclotin (46), azothoate (889), benomyl (62), benoxafos (alternative name) [CCN], benzoximate (71), benzyl benzoate (IUPAC name) [CCN], bifenazate (74), bifenthrin (76), binapacryl (907), brofenvalerate (alternative name), bromocyclen (918), bromophos (920), bromophos-ethyl (921), bromopropylate (94), buprofezin (99), butocarboxim (103), butoxycarboxim (104), butylpyridaben (alternative name), calcium

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polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbophenothion (947), CGA 50'439 (development code) (125), chino-methionat (126), chlorbenside (959), chlordimeform (964), chlordimeform hydrochloride (964), chlorfenapyr (130), chlorfenethol (968), chlorfenson (970), chlorfensulphide (971), chlorfenvinphos (131), chlorobenzilate (975), chloromebuform (977), chloromethiuron (978), chloropropylate (983), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), cinerin I (696), cinerin II (696), cinerins (696), clofentezine (158), closantel (alternative name) [CCN], coumaphos (174), crotamiton (alternative name) [CCN], crotoxyphos (1010), cufraneb (1013), cyanthoate (1020), cyhalothrin (196), cyhexatin (199), cypermethrin (201), DCPM (1032), DDT (219), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafen-thiuron (226), dialifos (1042), diazinon (227), dichlofluanid (230), dichlorvos (236), dicliphos (alternative name), dicofol (242), dicrotophos (243), dienochlor (1071), dimefox (1081), dimethoate (262), dinactin (alternative name) (653), dinex (1089), dinex-diclexine (1089), dinobuton (269), dinocap (270), dinocap-4 [CCN], dinocap-6 [CCN], dinocton (1090), dinopenton (1092), dinosulfon (1097), dinoterbon (1098), dioxathion (1102), diphenyl sulfone (IUPAC name) (1103), disulfiram (alternative name) [CCN], disulfoton (278), DNOC (282), dofenapyn (1113), doramectin (alternative name) [CCN], endosulfan (294), endothion (1121), EPN (297), eprinomectin (alternative name) [CCN], ethion (309), ethoate-methyl (1134), etoxazole (320), etrimfos (1142), fenazaflor (1147), fenazaquin (328), fenbutatin oxide (330), fenothiocarb (337), fenpropathrin (342), fenpyrad (alternative name), fenpyroximate (345), fenson (1157), fentrifanil (1161), fenvalerate (349), fipronil (354), fluacrypyrim (360), fluazuron (1166), flubenzimine (1167), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenoxuron (370), flumethrin (372), fluorbenside (1174), fluvalinate (1184), FMC 1137 (development code) (1185), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), gamma-HCH (430), glyodin (1205), halfenprox (424), heptenophos (432), hexadecyl cyclopropanecarboxylate (IUPAC/Chemical Abstracts name) (1216), hexythiazox (441), iodomethane (IUPAC name) (542), isocarbophos (alternative name) (473), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), lindane (430), lufenuron (490), malathion (492), malonoben (1254), mecarbam (502), mephosfolan (1261), mesulfen (alternative name) [CCN], methacrifos (1266), methamidophos (527), methidathion (529), methiocarb (530), methomyl (531),

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methyl bromide (537), metolcarb (550), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naled (567), NC-184 (compound code), nifluridide (1309), nikkomycins (alternative name) [CCN], nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), omethoate (594), oxamyl (602), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), parathion (615), permethrin (626), petroleum oils (alternative name) (628), phenkapton (1330), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosphamidon (639), phoxim (642), pirimiphos-methyl (652), polychloroterpenes (traditional name) (1347), polynactins (alternative name) (653), proclonol (1350), profenofos (662), promacyl (1354), propargite (671), propetamphos (673), propoxur (678), prothidathion (1360), prothoate (1362), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), quinalphos (711), quintiofos (1381), R-1492 (development code) (1382), RA-17 (development code) (1383), rotenone (722), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), sophamide (1402), spirodiclofen (738), spiromesifen (739), SSI-121 (development code) (1404), sulfiram (alternative name) [CCN], sulfluramid (750), sulfotep (753), sulfur (754), SZI-121 (development code) (757), tau-fluvalinate (398), tebufenpyrad (763), TEPP (1417), terbam (alternative name), tetrachlorvinphos (777), tetradifon (786), tetranactin (alternative name) (653), tetrasul (1425), thiafenox (alternative name), thiocarboxime (1431), thiofanox (800), thiometon (801), thioquinox (1436), thuringiensin (alternative name) [CCN], triamiphos (1441), triarathene (1443), triazophos (820), triazuron (alternative name), trichlorfon (824), trifenofos (1455), trinactin (alternative name) (653), vamidothion (847), vaniliprole [CCN] and YI-5302 (compound code),

an algicide selected from the group of substances consisting of bethoxazin [CCN], copper dioctanoate (IUPAC name) (170), copper sulfate (172), cybutryne [CCN], dichlone (1052), dichlorophen (232), endothal (295), fentin (347), hydrated lime [CCN], nabam (566), quinochloramine (714), quinonamid (1379), simazine (730), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

an anthelmintic selected from the group of substances consisting of abamectin (1), crufomate (1011), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ivermectin (alternative name) [CCN], milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN],

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piperazine [CCN], selamectin (alternative name) [CCN], spinosad (737) and thiophanate (1435),

an avicide selected from the group of substances consisting of chloralose (127), endrin (1122), fenthion (346), pyridin-4-amine (IUPAC name) (23) and strychnine (745),

a bactericide selected from the group of substances consisting of 1-hydroxy-1*H*-pyridine-2-thione (IUPAC name) (1222), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), 8-hydroxyquinoline sulfate (446), bronopol (97), copper dioctanoate (IUPAC name) (170), copper hydroxide (IUPAC name) (169), cresol [CCN], dichlorophen (232), dipyrithione (1105), dodicin (1112), fenaminosulf (1144), formaldehyde (404), hydrargaphen (alternative name) [CCN], kasugamycin (483), kasugamycin hydrochloride hydrate (483), nickel bis(dimethyldithiocarbamate) (IUPAC name) (1308), nitrapyrin (580), octhilinone (590), oxolinic acid (606), oxytetracycline (611), potassium hydroxyquinoline sulfate (446), probenazole (658), streptomycin (744), streptomycin sesquisulfate (744), tecloftalam (766) and thiomersal (alternative name) [CCN],

a biological agent selected from the group of substances consisting of *Adoxophyes orana* GV (alternative name) (12), *Agrobacterium radiobacter* (alternative name) (13), *Amblyseius* spp. (alternative name) (19), *Anagrapha falcifera* NPV (alternative name) (28), *Anagrus atomus* (alternative name) (29), *Aphelinus abdominalis* (alternative name) (33), *Aphidius colemani* (alternative name) (34), *Aphidoletes aphidimyza* (alternative name) (35), *Autographa californica* NPV (alternative name) (38), *Bacillus firmus* (alternative name) (48), *Bacillus sphaericus* Neide (scientific name) (49), *Bacillus thuringiensis* Berliner (scientific name) (51), *Bacillus thuringiensis* subsp. *aizawai* (scientific name) (51), *Bacillus thuringiensis* subsp. *israelensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *japonensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *kurstaki* (scientific name) (51), *Bacillus thuringiensis* subsp. *tenebrionis* (scientific name) (51), *Beauveria bassiana* (alternative name) (53), *Beauveria brongniartii* (alternative name) (54), *Chrysoperla carnea* (alternative name) (151), *Cryptolaemus montrouzieri* (alternative name) (178), *Cydia pomonella* GV (alternative name) (191), *Dacnusa sibirica* (alternative name) (212), *Diglyphus isaea* (alternative name) (254), *Encarsia formosa* (scientific name) (293), *Eretmocerus eremicus* (alternative name) (300), *Helicoverpa zea* NPV (alternative name) (431), *Heterorhabditis bacteriophora* and *H. megidis* (alternative name) (433), *Hippodamia convergens* (alternative name) (442), *Leptomastix dactylopii* (alternative name) (488), *Macrolophus caliginosus* (alternative name) (491), *Mamestra brassicae* NPV (alternative name) (494), *Metaphycus helvolus* (alternative name) (522), *Metarhizium anisopliae* var.

acridum (scientific name) (523), *Metarhizium anisopliae* var. *anisopliae* (scientific name) (523), *Neodiprion sertifer* NPV and *N. lecontei* NPV (alternative name) (575), *Orius* spp. (alternative name) (596), *Paecilomyces fumosoroseus* (alternative name) (613), *Phytoseiulus persimilis* (alternative name) (644), *Spodoptera exigua* multicapsid nuclear polyhedrosis virus (scientific name) (741), *Steinernema bibionis* (alternative name) (742), *Steinernema carpocapsae* (alternative name) (742), *Steinernema feltiae* (alternative name) (742), *Steinernema glaseri* (alternative name) (742), *Steinernema riobrave* (alternative name) (742), *Steinernema riobravus* (alternative name) (742), *Steinernema scapterisci* (alternative name) (742), *Steinernema* spp. (alternative name) (742), *Trichogramma* spp. (alternative name) (826), *Typhlodromus occidentalis* (alternative name) (844) and *Verticillium lecanii* (alternative name) (848),

a soil sterilant selected from the group of substances consisting of iodomethane (IUPAC name) (542) and methyl bromide (537),

a chemosterilant selected from the group of substances consisting of apholate [CCN], bisazir (alternative name) [CCN], busulfan (alternative name) [CCN], diflubenzuron (250), dimatif (alternative name) [CCN], hemel [CCN], hempa [CCN], metepa [CCN], methiotepa [CCN], methyl apholate [CCN], morzid [CCN], penfluron (alternative name) [CCN], tepa [CCN], thiohempa (alternative name) [CCN], thiotepa (alternative name) [CCN], tretamine (alternative name) [CCN] and uredepa (alternative name) [CCN],

an insect pheromone selected from the group of substances consisting of (*E*)-dec-5-en-1-yl acetate with (*E*)-dec-5-en-1-ol (IUPAC name) (222), (*E*)-tridec-4-en-1-yl acetate (IUPAC name) (829), (*E*)-6-methylhept-2-en-4-ol (IUPAC name) (541), (*E,Z*)-tetradeca-4,10-dien-1-yl acetate (IUPAC name) (779), (*Z*)-dodec-7-en-1-yl acetate (IUPAC name) (285), (*Z*)-hexadec-11-enal (IUPAC name) (436), (*Z*)-hexadec-11-en-1-yl acetate (IUPAC name) (437), (*Z*)-hexadec-13-en-11-yn-1-yl acetate (IUPAC name) (438), (*Z*)-icos-13-en-10-one (IUPAC name) (448), (*Z*)-tetradec-7-en-1-al (IUPAC name) (782), (*Z*)-tetradec-9-en-1-ol (IUPAC name) (783), (*Z*)-tetradec-9-en-1-yl acetate (IUPAC name) (784), (*7E,9Z*)-dodeca-7,9-dien-1-yl acetate (IUPAC name) (283), (*9Z,11E*)-tetradeca-9,11-dien-1-yl acetate (IUPAC name) (780), (*9Z,12E*)-tetradeca-9,12-dien-1-yl acetate (IUPAC name) (781), 14-methyloctadec-1-ene (IUPAC name) (545), 4-methylnonan-5-ol with 4-methylnonan-5-one (IUPAC name) (544), alpha-multistriatin (alternative name) [CCN], brevicomin (alternative name) [CCN], codlemure (alternative name) [CCN], codlemone (alternative name) (167), cuelure (alternative name) (179), disparlure (277), dodec-8-en-1-yl acetate (IUPAC name) (286), dodec-9-en-1-yl acetate (IUPAC name) (287), dodeca-8,10-dien-1-yl acetate (IUPAC

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name) (284), dominicalure (alternative name) [CCN], ethyl 4-methyloctanoate (IUPAC name) (317), eugenol (alternative name) [CCN], frontaline (alternative name) [CCN], gossypolure (alternative name) (420), grandlure (421), grandlure I (alternative name) (421), grandlure II (alternative name) (421), grandlure III (alternative name) (421), grandlure IV (alternative name) (421), hexalure [CCN], ipsdienol (alternative name) [CCN], ipsenol (alternative name) [CCN], japonilure (alternative name) (481), lineatin (alternative name) [CCN], litlure (alternative name) [CCN], looplure (alternative name) [CCN], medlure [CCN], megatomoic acid (alternative name) [CCN], methyl eugenol (alternative name) (540), muscalure (563), octadeca-2,13-dien-1-yl acetate (IUPAC name) (588), octadeca-3,13-dien-1-yl acetate (IUPAC name) (589), orfralure (alternative name) [CCN], oryctalure (alternative name) (317), ostramone (alternative name) [CCN], siglure [CCN], sordidin (alternative name) (736), sulcatol (alternative name) [CCN], tetradec-11-en-1-yl acetate (IUPAC name) (785), trimedlure (839), trimedlure A (alternative name) (839), trimedlure B₁ (alternative name) (839), trimedlure B₂ (alternative name) (839), trimedlure C (alternative name) (839) and trunc-call (alternative name) [CCN],

an insect repellent selected from the group of substances consisting of 2-(octylthio)-ethanol (IUPAC name) (591), butopyronoxyl (933), butoxy(polypropylene glycol) (936), dibutyl adipate (IUPAC name) (1046), dibutyl phthalate (1047), dibutyl succinate (IUPAC name) (1048), diethyltoluamide [CCN], dimethyl carbate [CCN], dimethyl phthalate [CCN], ethyl hexanediol (1137), hexamide [CCN], methoquin-butyl (1276), methylneodecanamide [CCN], oxamate [CCN] and picaridin [CCN],

an insecticide selected from the group of substances consisting of 1,1-dichloro-1-nitroethane (IUPAC/Chemical Abstracts name) (1058), 1,1-dichloro-2,2-bis(4-ethylphenyl)-ethane (IUPAC name) (1056), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1-bromo-2-chloroethane (IUPAC/Chemical Abstracts name) (916), 2,2,2-trichloro-1-(3,4-dichlorophenyl)ethyl acetate (IUPAC name) (1451), 2,2-dichlorovinyl 2-ethylsulfinyethyl methyl phosphate (IUPAC name) (1066), 2-(1,3-dithiolan-2-yl)phenyl dimethylcarbamate (IUPAC/Chemical Abstracts name) (1109), 2-(2-butoxyethoxy)ethyl thiocyanate (IUPAC/Chemical Abstracts name) (935), 2-(4,5-dimethyl-1,3-dioxolan-2-yl)phenyl methylcarbamate (IUPAC/Chemical Abstracts name) (1084), 2-(4-chloro-3,5-xylyloxy)ethanol (IUPAC name) (986), 2-chlorovinyl diethyl phosphate (IUPAC name) (984), 2-imidazolidone (IUPAC name) (1225), 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 2-methyl(prop-2-ynyl)aminophenyl methylcarbamate (IUPAC name) (1284), 2-thiocyanatoethyl laurate (IUPAC name) (1433), 3-

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bromo-1-chloroprop-1-ene (IUPAC name) (917), 3-methyl-1-phenylpyrazol-5-yl dimethylcarbamate (IUPAC name) (1283), 4-methyl(prop-2-ynyl)amino-3,5-xylyl methylcarbamate (IUPAC name) (1285), 5,5-dimethyl-3-oxocyclohex-1-enyl dimethylcarbamate (IUPAC name) (1085), abamectin (1), acephate (2), acetamiprid (4), acethion (alternative name) [CCN], acetoprole [CCN], acrinathrin (9), acrylonitrile (IUPAC name) (861), alanycarb (15), aldicarb (16), aldoxycarb (863), aldrin (864), allethrin (17), allosamidin (alternative name) [CCN], allyxycarb (866), alpha-cypermethrin (202), alpha-ecdysone (alternative name) [CCN], aluminium phosphide (640), amidithion (870), amidothioate (872), aminocarb (873), amiton (875), amiton hydrogen oxalate (875), amitraz (24), anabasine (877), athidathion (883), AVI 382 (compound code), AZ 60541 (compound code), azadirachtin (alternative name) (41), azamethiphos (42), azinphos-ethyl (44), azinphos-methyl (45), azothoate (889), *Bacillus thuringiensis* delta endotoxins (alternative name) (52), barium hexafluorosilicate (alternative name) [CCN], barium polysulfide (IUPAC/Chemical Abstracts name) (892), barthrin [CCN], BAS 320 I (compound code), Bayer 22/190 (development code) (893), Bayer 22408 (development code) (894), bendiocarb (58), benfuracarb (60), bensultap (66), beta-cyfluthrin (194), beta-cypermethrin (203), bifenthrin (76), bioallethrin (78), bioallethrin S-cyclopentenyl isomer (alternative name) (79), bioethanomethrin [CCN], biopermethrin (908), bioresmethrin (80), bis(2-chloroethyl) ether (IUPAC name) (909), bistrifluron (83), borax (86), brofenvalerate (alternative name), bromfenvinfos (914), bromocyclen (918), bromo-DDT (alternative name) [CCN], bromophos (920), bromophos-ethyl (921), bufencarb (924), buprofezin (99), butacarb (926), butathiofos (927), butocarboxim (103), butonate (932), butoxycarboxim (104), butylpyridaben (alternative name), cadusafos (109), calcium arsenate [CCN], calcium cyanide (444), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbon disulfide (IUPAC/Chemical Abstracts name) (945), carbon tetrachloride (IUPAC name) (946), carbophenothion (947), carbosulfan (119), cartap (123), cartap hydrochloride (123), cevadine (alternative name) (725), chlorbicyclen (960), chlordane (128), chlordecone (963), chlordimeform (964), chlordimeform hydrochloride (964), chlorethoxyfos (129), chlorfenapyr (130), chlorfenvinphos (131), chlorfluazuron (132), chlormephos (136), chloroform [CCN], chloropicrin (141), chlorphoxim (989), chlorprazophos (990), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), chromafenozide (150), cinerin I (696), cinerin II (696), cinerins (696), cis-resmethrin (alternative name), cismethrin (80), clocythrin (alternative name), cloethocarb (999), closantel (alternative name) [CCN], clothianidin (165), copper acetoarsenite [CCN], copper arsenate [CCN], copper oleate [CCN], coumaphos (174),

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coumithoate (1006), crotamiton (alternative name) [CCN], crotoxyphos (1010), cruformate (1011), cryolite (alternative name) (177), CS 708 (development code) (1012), cyanofenphos (1019), cyanophos (184), cyanthoate (1020), cyclethrin [CCN], cycloprothrin (188), cyfluthrin (193), cyhalothrin (196), cypermethrin (201), cyphenothrin (206), cyromazine (209), cythioate (alternative name) [CCN], *d*-limonene (alternative name) [CCN], *d*-tetramethrin (alternative name) (788), DAEP (1031), dazomet (216), DDT (219), decarbofuran (1034), deltamethrin (223), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthiuron (226), dialifos (1042), diamidafos (1044), diazinon (227), dicapthon (1050), dichlofenthion (1051), dichlorvos (236), dicliphos (alternative name), dicresyl (alternative name) [CCN], dicrotophos (243), dicyclanil (244), dieldrin (1070), diethyl 5-methylpyrazol-3-yl phosphate (IUPAC name) (1076), diflubenzuron (250), dilor (alternative name) [CCN], dimefluthrin [CCN], dimefox (1081), dimetan (1085), dimethoate (262), dimethrin (1083), dimethylvinphos (265), dimetilan (1086), dinex (1089), dinex-diclexine (1089), dinoprop (1093), dinosam (1094), dinoseb (1095), dinotefuran (271), diofenolan (1099), dioxabenzofos (1100), dioxacarb (1101), dioxathion (1102), disulfoton (278), dithicrofos (1108), DNOC (282), doramectin (alternative name) [CCN], DSP (1115), ecdysterone (alternative name) [CCN], EI 1642 (development code) (1118), emamectin (291), emamectin benzoate (291), EMPC (1120), empenthrin (292), endosulfan (294), endothion (1121), endrin (1122), EPBP (1123), EPN (297), epofenonane (1124), eprinomectin (alternative name) [CCN], esfenvalerate (302), etaphos (alternative name) [CCN], ethiofencarb (308), ethion (309), ethiprole (310), ethoate-methyl (1134), ethoprophos (312), ethyl formate (IUPAC name) [CCN], ethyl-DDD (alternative name) (1056), ethylene dibromide (316), ethylene dichloride (chemical name) (1136), ethylene oxide [CCN], etofenprox (319), etrimfos (1142), EXD (1143), famphur (323), fenamiphos (326), fenazaflor (1147), fenchlorphos (1148), fenethacarb (1149), fenfluthrin (1150), fenitrothion (335), fenobucarb (336), fenoxacrim (1153), fenoxycarb (340), fenpirithrin (1155), fenpropathrin (342), fenpyrad (alternative name), fensulfothion (1158), fenthion (346), fenthion-ethyl [CCN], fenvalerate (349), fipronil (354), flonicamid (358), flucofuron (1168), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenerim [CCN], flufenoxuron (370), flufenprox (1171), flumethrin (372), fluvalinate (1184), FMC 1137 (development code) (1185), fonofos (1191), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), fosmethilan (1194), fospirate (1195), fothiazate (408), fothietan (1196), furathiocarb (412), furethrin (1200), gamma-cyhalothrin

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(197), gamma-HCH (430), guazatine (422), guazatine acetates (422), GY-81 (development code) (423), halfenprox (424), halofenozide (425), HCH (430), HEOD (1070), heptachlor (1211), heptenophos (432), heterophos [CCN], hexaflumuron (439), HHDN (864), hydramethylnon (443), hydrogen cyanide (444), hydroprene (445), hyquincarb (1223), imidacloprid (458), imiprothrin (460), indoxacarb (465), iodomethane (IUPAC name) (542), IPSP (1229), isazofos (1231), isobenzan (1232), isocarbophos (alternative name) (473), isodrin (1235), isofenphos (1236), isolane (1237), isoprocab (472), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), isoprothiolane (474), isothioate (1244), isoxathion (480), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), juvenile hormone I (alternative name) [CCN], juvenile hormone II (alternative name) [CCN], juvenile hormone III (alternative name) [CCN], kelevan (1249), kinoprene (484), lambda-cyhalothrin (198), lead arsenate [CCN], leptophos (1250), lindane (430), lirimfos (1251), lufenuron (490), lythidathion (1253), *m*-cumenyl methylcarbamate (IUPAC name) (1014), magnesium phosphide (IUPAC name) (640), malathion (492), malonoben (1254), mazidox (1255), mecarbam (502), mecarphon (1258), menazon (1260), mephosfolan (1261), mercurous chloride (513), mesulfenfos (1263), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methacrifos (1266), methamidophos (527), methanesulfonyl fluoride (IUPAC/Chemical Abstracts name) (1268), methidathion (529), methiocarb (530), methocrotophos (1273), methomyl (531), methoprene (532), methoquin-butyl (1276), methothrin (alternative name) (533), methoxychlor (534), methoxyfenozide (535), methyl bromide (537), methyl isothiocyanate (543), methylchloroform (alternative name) [CCN], methylene chloride [CCN], metofluthrin [CCN], metolcarb (550), metoxadiazone (1288), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), mirex (1294), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naftalofos (alternative name) [CCN], naled (567), naphthalene (IUPAC/Chemical Abstracts name) (1303), NC-170 (development code) (1306), NC-184 (compound code), nicotine (578), nicotine sulfate (578), nifluridide (1309), nitenpyram (579), nithiazine (1311), nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), nornicotine (traditional name) (1319), novaluron (585), noviflumuron (586), O-2,5-dichloro-4-iodophenyl O-ethyl ethylphosphonothioate (IUPAC name) (1057), O,O-diethyl O-4-methyl-2-oxo-2*H*-chromen-7-yl phosphorothioate (IUPAC name) (1074), O,O-diethyl O-6-methyl-2-propylpyrimidin-4-yl phosphorothioate (IUPAC name) (1075), O,O,O',O'-tetrapropyl dithiopyrophosphate (IUPAC name) (1424), oleic acid (IUPAC name)

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(593), omethoate (594), oxamyl (602), oxydemeton-methyl (609), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), para-dichlorobenzene [CCN], parathion (615), parathion-methyl (616), penfluron (alternative name) [CCN], pentachlorophenol (623), pentachlorophenyl laurate (IUPAC name) (623), permethrin (626), petroleum oils (alternative name) (628), PH 60-38 (development code) (1328), phenkapton (1330), phenothrin (630), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosnichlor (1339), phosphamidon (639), phosphine (IUPAC name) (640), phoxim (642), phoxim-methyl (1340), pirimetaphos (1344), pirimicarb (651), pirimiphos-ethyl (1345), pirimiphos-methyl (652), polychlorodicyclopentadiene isomers (IUPAC name) (1346), polychloroterpenes (traditional name) (1347), potassium arsenite [CCN], potassium thiocyanate [CCN], prallethrin (655), precocene I (alternative name) [CCN], precocene II (alternative name) [CCN], precocene III (alternative name) [CCN], primidophos (1349), profenofos (662), profluthrin [CCN], promacyl (1354), promecarb (1355), propaphos (1356), propetamphos (673), propoxur (678), prothidathion (1360), prothiofos (686), prothoate (1362), protrifenbute [CCN], pymetrozine (688), pyraclofos (689), pyrazophos (693), pyresmethrin (1367), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridalyl (700), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), pyriproxyfen (708), quassia (alternative name) [CCN], quinalphos (711), quinalphos-methyl (1376), quinothion (1380), quintiofos (1381), R-1492 (development code) (1382), rafoxanide (alternative name) [CCN], resmethrin (719), rotenone (722), RU 15525 (development code) (723), RU 25475 (development code) (1386), ryania (alternative name) (1387), ryanodine (traditional name) (1387), sabadilla (alternative name) (725), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), silafluofen (728), SN 72129 (development code) (1397), sodium arsenite [CCN], sodium cyanide (444), sodium fluoride (IUPAC/Chemical Abstracts name) (1399), sodium hexafluorosilicate (1400), sodium pentachlorophenoxide (623), sodium selenate (IUPAC name) (1401), sodium thiocyanate [CCN], sophamide (1402), spinosad (737), spiromesifen (739), sulcofuron (746), sulcofuron-sodium (746), sulfluramid (750), sulfotep (753), sulfuryl fluoride (756), sulprofos (1408), tar oils (alternative name) (758), tau-fluvalinate (398), tazimcarb (1412), TDE (1414), tebufenozide (762), tebufenpyrad (763), tebupirimfos (764), teflubenzuron (768), tefluthrin (769), temephos (770), TEPP (1417), terallethrin (1418), terbam (alternative name), terbufos (773), tetrachloroethane [CCN], tetrachlorvinphos (777), tetramethrin (787), theta-cypermethrin (204), thiacloprid (791), thiafenox (alternative name), thiamethoxam (792), thicrofos (1428), thiocarboxime (1431), thiocyclam (798), thiocyclam

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hydrogen oxalate (798), thiodicarb (799), thiofanox (800), thiometon (801), thionazin (1434), thiosultap (803), thiosultap-sodium (803), thuringiensin (alternative name) [CCN], tolfenpyrad (809), tralomethrin (812), transfluthrin (813), transpermethrin (1440), triamiphos (1441), triazamate (818), triazophos (820), triazuron (alternative name), trichlorfon (824), trichlormetaphos-3 (alternative name) [CCN], trichloronat (1452), trifenofos (1455), triflumuron (835), trimethacarb (840), triprene (1459), vamidothion (847), vanilprole [CCN], veratridine (alternative name) (725), veratrine (alternative name) (725), XMC (853), xylylcarb (854), YI-5302 (compound code), zeta-cypermethrin (205), zetamethrin (alternative name), zinc phosphide (640), zolaprofos (1469) and ZXI 8901 (development code) (858),

a molluscicide selected from the group of substances consisting of bis(tributyltin) oxide (IUPAC name) (913), bromoacetamide [CCN], calcium arsenate [CCN], cloethocarb (999), copper acetoarsenite [CCN], copper sulfate (172), fentin (347), ferric phosphate (IUPAC name) (352), metaldehyde (518), methiocarb (530), niclosamide (576), niclosamide-olamine (576), pentachlorophenol (623), sodium pentachlorophenoxide (623), tazimcarb (1412), thiodicarb (799), tributyltin oxide (913), trifenmorph (1454), trimethacarb (840), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

a nematicide selected from the group of substances consisting of 1,2-dibromo-3-chloropropane (IUPAC/Chemical Abstracts name) (1045), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1,3-dichloropropene (233), 3,4-dichlorotetrahydrothiophene 1,1-dioxide (IUPAC/Chemical Abstracts name) (1065), 3-(4-chlorophenyl)-5-methylrhodanine (IUPAC name) (980), 5-methyl-6-thioxo-1,3,5-thiadiazinan-3-ylacetic acid (IUPAC name) (1286), 6-isopentenylaminopurine (alternative name) (210), abamectin (1), acetoprole [CCN], alanycarb (15), aldicarb (16), aldoxycarb (863), AZ 60541 (compound code), benclothiaz [CCN], benomyl (62), butylpyridaben (alternative name), cadusafos (109), carbofuran (118), carbon disulfide (945), carbosulfan (119), chloropicrin (141), chlorpyrifos (145), cloethocarb (999), cytokinins (alternative name) (210), dazomet (216), DBCP (1045), DCIP (218), diamidafos (1044), dichlofenthion (1051), dicliphos (alternative name), dimethoate (262), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ethoprophos (312), ethylene dibromide (316), fenamiphos (326), fenpyrad (alternative name), fensulfothion (1158), fosthiazate (408), fosthietan (1196), furfural (alternative name) [CCN], GY-81 (development code) (423), heterophos [CCN], iodomethane (IUPAC name) (542), isamidofos (1230), isazofos (1231), ivermectin (alternative name) [CCN], kinetin (alternative name) (210), mecarphon (1258),

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metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methyl bromide (537), methyl isothiocyanate (543), milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], *Myrothecium verrucaria* composition (alternative name) (565), NC-184 (compound code), oxamyl (602), phorate (636), phosphamidon (639), phosphocarb [CCN], sebufos (alternative name), selamectin (alternative name) [CCN], spinosad (737), terbam (alternative name), terbufos (773), tetrachlorothiophene (IUPAC/ Chemical Abstracts name) (1422), thiafenox (alternative name), thionazin (1434), triazophos (820), triazuron (alternative name), xlenols [CCN], YI-5302 (compound code) and zeatin (alternative name) (210),

a nitrification inhibitor selected from the group of substances consisting of potassium ethylxanthate [CCN] and nitrapyrin (580),

a plant activator selected from the group of substances consisting of acibenzolar (6), acibenzolar-S-methyl (6), probenazole (658) and *Reynoutria sachalinensis* extract (alternative name) (720),

a rodenticide selected from the group of substances consisting of 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), alpha-chlorohydrin [CCN], aluminium phosphide (640), antu (880), arsenous oxide (882), barium carbonate (891), bisthiosemi (912), brodifacoum (89), bromadiolone (91), bromethalin (92), calcium cyanide (444), chloralose (127), chlorophacinone (140), cholecalciferol (alternative name) (850), coumachlor (1004), coumafuryl (1005), coumatetralyl (175), crimidine (1009), difenacoum (246), difethialone (249), diphacinone (273), ergocalciferol (301), flocoumafen (357), fluoroacetamide (379), flupropadine (1183), flupropadine hydrochloride (1183), gamma-HCH (430), HCH (430), hydrogen cyanide (444), iodomethane (IUPAC name) (542), lindane (430), magnesium phosphide (IUPAC name) (640), methyl bromide (537), norbormide (1318), phosacetim (1336), phosphine (IUPAC name) (640), phosphorus [CCN], pindone (1341), potassium arsenite [CCN], pyrinuron (1371), scilliroside (1390), sodium arsenite [CCN], sodium cyanide (444), sodium fluoroacetate (735), strychnine (745), thallium sulfate [CCN], warfarin (851) and zinc phosphide (640),

a synergist selected from the group of substances consisting of 2-(2-butoxyethoxy)-ethyl piperonylate (IUPAC name) (934), 5-(1,3-benzodioxol-5-yl)-3-hexylcyclohex-2-enone (IUPAC name) (903), farnesol with nerolidol (alternative name) (324), MB-599 (development code) (498), MGK 264 (development code) (296), piperonyl butoxide (649), piprotal (1343),

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propyl isomer (1358), S421 (development code) (724), sesamex (1393), sesasmolin (1394) and sulfoxide (1406),

an animal repellent selected from the group of substances consisting of anthraquinone (32), chloralose (127), copper naphthenate [CCN], copper oxychloride (171), diazinon (227), dicyclopentadiene (chemical name) (1069), guazatine (422), guazatine acetates (422), methiocarb (530), pyridin-4-amine (IUPAC name) (23), thiram (804), trimethacarb (840), zinc naphthenate [CCN] and ziram (856),

a virucide selected from the group of substances consisting of imanin (alternative name) [CCN] and ribavirin (alternative name) [CCN],

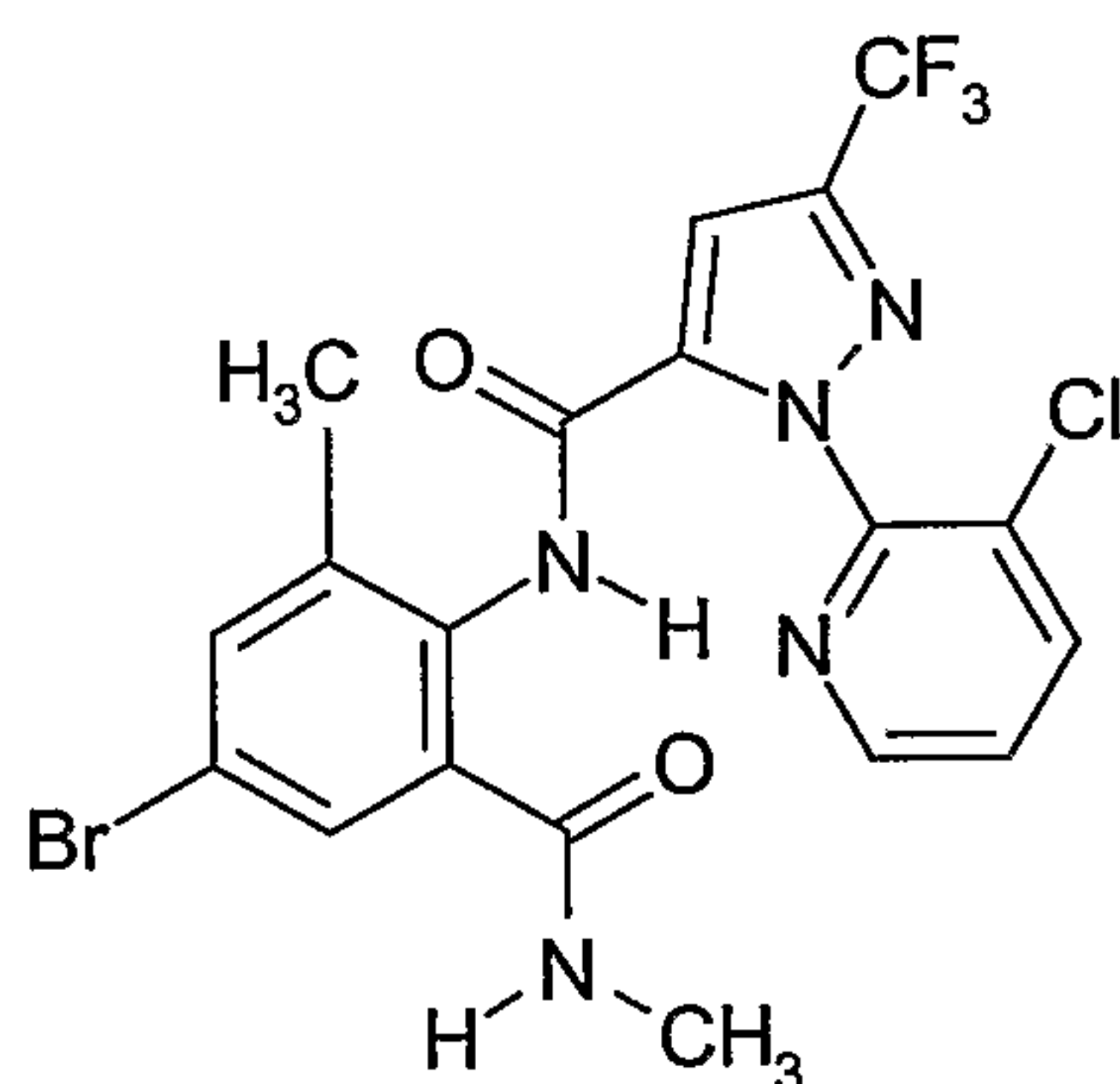
and a wound protectant selected from the group of substances consisting of mercuric oxide (512), octhilinone (590) and thiophanate-methyl (802).

A very especially preferred embodiment of the subject-matter {1.1.1} of the invention is {1.1.1.2} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-1) and the compound (B) is a compound selected from the group of substances consisting of abamectin (1), cyromazine (209), diafenthiuron (226), diazinon (227), emamectin benzoate (291), fenoxycarb (340), fosthiazate (408), lambda-cyhalothrin (198), lufenuron (490), methidathion (529), profenofos (662), pymetrozine (688), tefluthrin (769) and thiamethoxam (792).

The compound of formula (A-1) is known, for example, from PCT Application WO-03/015519.

A preferred embodiment of the subject-matter {1.1} of the invention is {1.1.2} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-2)

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(A-2)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

An especially preferred embodiment of the subject-matter {1.1.2} of the invention is {1.1.2.1} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-2) and the compound (B) is a compound selected from the group of substances consisting of

an adjuvant selected from the group of substances consisting of petroleum oils (alternative name) (628),

an acaricide selected from the group of substances consisting of 1,1-bis(4-chlorophenyl)-2-ethoxyethanol (IUPAC name) (910), 2,4-dichlorophenyl benzenesulfonate (IUPAC/Chemical Abstracts name) (1059), 2-fluoro-*N*-methyl-*N*-1-naphthylacetamide (IUPAC name) (1295), 4-chlorophenyl phenyl sulfone (IUPAC name) (981), abamectin (1), acequinocyl (3), acetoprole [CCN], acrinathrin (9), aldicarb (16), aldoxycarb (863), alpha-cypermethrin (202), amidithion (870), amidoflumet [CCN], amidothioate (872), amiton (875), amiton hydrogen oxalate (875), amitraz (24), aramite (881), arsenous oxide (882), AVI 382 (compound code), AZ 60541 (compound code), azinphos-ethyl (44), azinphos-methyl (45), azobenzene (IUPAC name) (888), azocyclotin (46), azothoate (889), benomyl (62), benoxafos (alternative name) [CCN], benzoximate (71), benzyl benzoate (IUPAC name) [CCN], bifenazate (74), bifenthrin (76), binapacryl (907), brofenvalerate (alternative name), bromocyclen (918), bromophos (920), bromophos-ethyl (921), bromopropylate (94), buprofezin (99), butocarboxim (103), butoxycarboxim (104), butylpyridaben (alternative name), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115),

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carbofuran (118), carbophenothion (947), CGA 50'439 (development code) (125), chino-methionat (126), chlorbenside (959), chlordimeform (964), chlordimeform hydrochloride (964), chlorfenapyr (130), chlorfenethol (968), chlorfenson (970), chlorfensulphide (971), chlorfenvinphos (131), chlorobenzilate (975), chloromebuform (977), chloromethiuron (978), chloropropylate (983), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), cinerin I (696), cinerin II (696), cinerins (696), clofentezine (158), closantel (alternative name) [CCN], coumaphos (174), crotamiton (alternative name) [CCN], crotoxyphos (1010), cufraneb (1013), cyanthoate (1020), cyhalothrin (196), cyhexatin (199), cypermethrin (201), DCPM (1032), DDT (219), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafen-thiuron (226), dialifos (1042), diazinon (227), dichlofluanid (230), dichlorvos (236), dicliphos (alternative name), dicofol (242), dicrotophos (243), dienochlor (1071), dimefox (1081), dimethoate (262), dinactin (alternative name) (653), dinex (1089), dinex-diclexine (1089), dinobuton (269), dinocap (270), dinocap-4 [CCN], dinocap-6 [CCN], dinocron (1090), dinopenton (1092), dinosulfon (1097), dinoterbon (1098), dioxathion (1102), diphenyl sulfone (IUPAC name) (1103), disulfiram (alternative name) [CCN], disulfoton (278), DNOC (282), dofenapyn (1113), doramectin (alternative name) [CCN], endosulfan (294), endothion (1121), EPN (297), eprinomectin (alternative name) [CCN], ethion (309), ethoate-methyl (1134), etoxazole (320), etrimfos (1142), fenazaflor (1147), fenazaquin (328), fenbutatin oxide (330), fenothiocarb (337), fenpropathrin (342), fenpyrad (alternative name), fenpyroximate (345), fenson (1157), fentrifanil (1161), fenvalerate (349), fipronil (354), fluacrypyrim (360), fluazuron (1166), flubenzimine (1167), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenoxuron (370), flumethrin (372), fluorbenside (1174), fluvalinate (1184), FMC 1137 (development code) (1185), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), gamma-HCH (430), glyodin (1205), halfenprox (424), heptenophos (432), hexadecyl cyclopropanecarboxylate (IUPAC/Chemical Abstracts name) (1216), hexythiazox (441), iodomethane (IUPAC name) (542), isocarbophos (alternative name) (473), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), lindane (430), lufenuron (490), malathion (492), malonoben (1254), mecarbam (502), mephosfolan (1261), mesulfen (alternative name) [CCN], methacrifos (1266), methamidophos (527), methidathion (529), methiocarb (530), methomyl (531), methyl bromide (537), metolcarb (550), mevinphos (556), mexacarbate (1290), milbemectin

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(557), milbemycin oxime (alternative name) [CCN], mipafox (1293), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naled (567), NC-184 (compound code), nifluridide (1309), nikkomycins (alternative name) [CCN], nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), omethoate (594), oxamyl (602), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), parathion (615), permethrin (626), petroleum oils (alternative name) (628), phenkapton (1330), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosphamidon (639), phoxim (642), pirimiphos-methyl (652), polychloroterpenes (traditional name) (1347), polynactins (alternative name) (653), proclonol (1350), profenofos (662), promacyl (1354), propargite (671), propetamphos (673), propoxur (678), prothidathion (1360), prothoate (1362), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), quinalphos (711), quintiofos (1381), R-1492 (development code) (1382), RA-17 (development code) (1383), rotenone (722), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), sophamide (1402), spirodiclofen (738), spiromesifen (739), SSI-121 (development code) (1404), sulfiram (alternative name) [CCN], sulfluramid (750), sulfotep (753), sulfur (754), SZI-121 (development code) (757), tau-fluvalinate (398), tebufenpyrad (763), TEPP (1417), terbam (alternative name), tetrachlorvinphos (777), tetradifon (786), tetranactin (alternative name) (653), tetrasul (1425), thiafenox (alternative name), thiocarboxime (1431), thiofanox (800), thiometon (801), thioquinox (1436), thuringiensin (alternative name) [CCN], triamiphos (1441), triarathene (1443), triazophos (820), triazuron (alternative name), trichlorfon (824), trifenofos (1455), trinactin (alternative name) (653), vamidothion (847), vaniliprole [CCN] and YI-5302 (compound code),

an algicide selected from the group of substances consisting of bethoxazin [CCN], copper dioctanoate (IUPAC name) (170), copper sulfate (172), cybutryne [CCN], dichlone (1052), dichlorophen (232), endothal (295), fentin (347), hydrated lime [CCN], nabam (566), quinoxamine (714), quinonamid (1379), simazine (730), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

an anthelmintic selected from the group of substances consisting of abamectin (1), crufomate (1011), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ivermectin (alternative name) [CCN], milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], piperazine [CCN], selamectin (alternative name) [CCN], spinosad (737) and thiophanate (1435),

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an avicide selected from the group of substances consisting of chloralose (127), endrin (1122), fenthion (346), pyridin-4-amine (IUPAC name) (23) and strychnine (745),

a bactericide selected from the group of substances consisting of 1-hydroxy-1*H*-pyridine-2-thione (IUPAC name) (1222), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), 8-hydroxyquinoline sulfate (446), bronopol (97), copper dioctanoate (IUPAC name) (170), copper hydroxide (IUPAC name) (169), cresol [CCN], dichlorophen (232), dipyrithione (1105), dodicin (1112), fenaminosulf (1144), formaldehyde (404), hydrargaphen (alternative name) [CCN], kasugamycin (483), kasugamycin hydrochloride hydrate (483), nickel bis(dimethyldithiocarbamate) (IUPAC name) (1308), nitrapyrin (580), octhilinone (590), oxolinic acid (606), oxytetracycline (611), potassium hydroxyquinoline sulfate (446), probenazole (658), streptomycin (744), streptomycin sesquisulfate (744), tecloftalam (766) and thiomersal (alternative name) [CCN],

a biological agent selected from the group of substances consisting of *Adoxophyes orana* GV (alternative name) (12), *Agrobacterium radiobacter* (alternative name) (13), *Amblyseius* spp. (alternative name) (19), *Anagrapha falcifera* NPV (alternative name) (28), *Anagrus atomus* (alternative name) (29), *Aphelinus abdominalis* (alternative name) (33), *Aphidius colemani* (alternative name) (34), *Aphidoletes aphidimyza* (alternative name) (35), *Autographa californica* NPV (alternative name) (38), *Bacillus firmus* (alternative name) (48), *Bacillus sphaericus* Neide (scientific name) (49), *Bacillus thuringiensis* Berliner (scientific name) (51), *Bacillus thuringiensis* subsp. *aizawai* (scientific name) (51), *Bacillus thuringiensis* subsp. *israelensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *japonensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *kurstaki* (scientific name) (51), *Bacillus thuringiensis* subsp. *tenebrionis* (scientific name) (51), *Beauveria bassiana* (alternative name) (53), *Beauveria brongniartii* (alternative name) (54), *Chrysoperla carnea* (alternative name) (151), *Cryptolaemus montrouzieri* (alternative name) (178), *Cydia pomonella* GV (alternative name) (191), *Dacnusa sibirica* (alternative name) (212), *Diglyphus isaea* (alternative name) (254), *Encarsia formosa* (scientific name) (293), *Eretmocerus eremicus* (alternative name) (300), *Helicoverpa zea* NPV (alternative name) (431), *Heterorhabditis bacteriophora* and *H. megidis* (alternative name) (433), *Hippodamia convergens* (alternative name) (442), *Leptomastix dactylopii* (alternative name) (488), *Macrolophus caliginosus* (alternative name) (491), *Mamestra brassicae* NPV (alternative name) (494), *Metaphycus helvolus* (alternative name) (522), *Metarhizium anisopliae* var. *acridum* (scientific name) (523), *Metarhizium anisopliae* var. *anisopliae* (scientific name) (523), *Neodiprion sertifer* NPV and *N. lecontei* NPV (alternative name) (575), *Orius* spp.

(alternative name) (596), *Paecilomyces fumosoroseus* (alternative name) (613), *Phytoseiulus persimilis* (alternative name) (644), *Spodoptera exigua* multicapsid nuclear polyhedrosis virus (scientific name) (741), *Steinernema bibionis* (alternative name) (742), *Steinernema carpocapsae* (alternative name) (742), *Steinernema feltiae* (alternative name) (742), *Steinernema glaseri* (alternative name) (742), *Steinernema riobrave* (alternative name) (742), *Steinernema riobravus* (alternative name) (742), *Steinernema scapterisci* (alternative name) (742), *Steinernema* spp. (alternative name) (742), *Trichogramma* spp. (alternative name) (826), *Typhlodromus occidentalis* (alternative name) (844) and *Verticillium lecanii* (alternative name) (848),

a soil sterilant selected from the group of substances consisting of iodomethane (IUPAC name) (542) and methyl bromide (537),

a chemosterilant selected from the group of substances consisting of apholate [CCN], bisazir (alternative name) [CCN], busulfan (alternative name) [CCN], diflubenzuron (250), dimatif (alternative name) [CCN], hemel [CCN], hempa [CCN], metepa [CCN], methiotepa [CCN], methyl apholate [CCN], morzid [CCN], penfluron (alternative name) [CCN], tepa [CCN], thiohempa (alternative name) [CCN], thiotepa (alternative name) [CCN], tretamine (alternative name) [CCN] and uredepa (alternative name) [CCN],

an insect pheromone selected from the group of substances consisting of (*E*)-dec-5-en-1-yl acetate with (*E*)-dec-5-en-1-ol (IUPAC name) (222), (*E*)-tridec-4-en-1-yl acetate (IUPAC name) (829), (*E*)-6-methylhept-2-en-4-ol (IUPAC name) (541), (*E,Z*)-tetradeca-4,10-dien-1-yl acetate (IUPAC name) (779), (*Z*)-dodec-7-en-1-yl acetate (IUPAC name) (285), (*Z*)-hexadec-11-enal (IUPAC name) (436), (*Z*)-hexadec-11-en-1-yl acetate (IUPAC name) (437), (*Z*)-hexadec-13-en-11-yn-1-yl acetate (IUPAC name) (438), (*Z*)-icos-13-en-10-one (IUPAC name) (448), (*Z*)-tetradec-7-en-1-al (IUPAC name) (782), (*Z*)-tetradec-9-en-1-ol (IUPAC name) (783), (*Z*)-tetradec-9-en-1-yl acetate (IUPAC name) (784), (*7E,9Z*)-dodeca-7,9-dien-1-yl acetate (IUPAC name) (283), (*9Z,11E*)-tetradeca-9,11-dien-1-yl acetate (IUPAC name) (780), (*9Z,12E*)-tetradeca-9,12-dien-1-yl acetate (IUPAC name) (781), 14-methyloctadec-1-ene (IUPAC name) (545), 4-methylnonan-5-ol with 4-methylnonan-5-one (IUPAC name) (544), alpha-multistriatin (alternative name) [CCN], brevicomin (alternative name) [CCN], codlelure (alternative name) [CCN], codlemone (alternative name) (167), cuelure (alternative name) (179), disparlure (277), dodec-8-en-1-yl acetate (IUPAC name) (286), dodec-9-en-1-yl acetate (IUPAC name) (287), dodeca-8,10-dien-1-yl acetate (IUPAC name) (284), dominicalure (alternative name) [CCN], ethyl 4-methyloctanoate (IUPAC name) (317), eugenol (alternative name) [CCN], frontalinal (alternative name) [CCN], gossyplure

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(alternative name) (420), grandlure (421), grandlure I (alternative name) (421), grandlure II (alternative name) (421), grandlure III (alternative name) (421), grandlure IV (alternative name) (421), hexalure [CCN], ipsdienol (alternative name) [CCN], ipsenol (alternative name) [CCN], japonilure (alternative name) (481), lineatin (alternative name) [CCN], litlure (alternative name) [CCN], looplure (alternative name) [CCN], medlure [CCN], megatomoic acid (alternative name) [CCN], methyl eugenol (alternative name) (540), muscalure (563), octadeca-2,13-dien-1-yl acetate (IUPAC name) (588), octadeca-3,13-dien-1-yl acetate (IUPAC name) (589), orfralure (alternative name) [CCN], oryctalure (alternative name) (317), ostramone (alternative name) [CCN], siglure [CCN], sordidin (alternative name) (736), sulcatol (alternative name) [CCN], tetradec-11-en-1-yl acetate (IUPAC name) (785), trimedlure (839), trimedlure A (alternative name) (839), trimedlure B₁ (alternative name) (839), trimedlure B₂ (alternative name) (839), trimedlure C (alternative name) (839) and trunc-call (alternative name) [CCN],

an insect repellent selected from the group of substances consisting of 2-(octylthio)ethanol (IUPAC name) (591), butopyronoxyl (933), butoxy(polypropylene glycol) (936), dibutyl adipate (IUPAC name) (1046), dibutyl phthalate (1047), dibutyl succinate (IUPAC name) (1048), diethyltoluamide [CCN], dimethyl carbate [CCN], dimethyl phthalate [CCN], ethyl hexanediol (1137), hexamide [CCN], methoquin-butyl (1276), methylneodecanamide [CCN], oxamate [CCN] and picaridin [CCN],

an insecticide selected from the group of substances consisting of 1,1-dichloro-1-nitroethane (IUPAC/Chemical Abstracts name) (1058), 1,1-dichloro-2,2-bis(4-ethylphenyl)ethane (IUPAC name) (1056), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1-bromo-2-chloroethane (IUPAC/Chemical Abstracts name) (916), 2,2,2-trichloro-1-(3,4-dichlorophenyl)ethyl acetate (IUPAC name) (1451), 2,2-dichlorovinyl 2-ethylsulfinylethyl methyl phosphate (IUPAC name) (1066), 2-(1,3-dithiolan-2-yl)phenyl dimethylcarbamate (IUPAC/Chemical Abstracts name) (1109), 2-(2-butoxyethoxy)ethyl thiocyanate (IUPAC/Chemical Abstracts name) (935), 2-(4,5-dimethyl-1,3-dioxolan-2-yl)phenyl methylcarbamate (IUPAC/Chemical Abstracts name) (1084), 2-(4-chloro-3,5-xylyloxy)ethanol (IUPAC name) (986), 2-chlorovinyl diethyl phosphate (IUPAC name) (984), 2-imidazolidone (IUPAC name) (1225), 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 2-methyl(prop-2-ynyl)aminophenyl methylcarbamate (IUPAC name) (1284), 2-thiocyanatoethyl laurate (IUPAC name) (1433), 3-bromo-1-chloroprop-1-ene (IUPAC name) (917), 3-methyl-1-phenylpyrazol-5-yl dimethylcarbamate (IUPAC name) (1283), 4-methyl(prop-2-ynyl)amino-3,5-xylyl methylcarbamate

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(IUPAC name) (1285), 5,5-dimethyl-3-oxocyclohex-1-enyl dimethylcarbamate (IUPAC name) (1085), abamectin (1), acephate (2), acetamiprid (4), acethion (alternative name) [CCN], acetoprole [CCN], acrinathrin (9), acrylonitrile (IUPAC name) (861), alanycarb (15), aldicarb (16), aldoxycarb (863), aldrin (864), allethrin (17), allosamidin (alternative name) [CCN], allyxycarb (866), alpha-cypermethrin (202), alpha-ecdysone (alternative name) [CCN], aluminium phosphide (640), amidithion (870), amidothioate (872), aminocarb (873), amiton (875), amiton hydrogen oxalate (875), amitraz (24), anabasine (877), athidathion (883), AVI 382 (compound code), AZ 60541 (compound code), azadirachtin (alternative name) (41), azamethiphos (42), azinphos-ethyl (44), azinphos-methyl (45), azothoate (889), *Bacillus thuringiensis* delta endotoxins (alternative name) (52), barium hexafluorosilicate (alternative name) [CCN], barium polysulfide (IUPAC/Chemical Abstracts name) (892), barthrin [CCN], BAS 320 I (compound code), Bayer 22/190 (development code) (893), Bayer 22408 (development code) (894), bendiocarb (58), benfuracarb (60), bensultap (66), beta-cyfluthrin (194), beta-cypermethrin (203), bifenthrin (76), bioallethrin (78), bioallethrin S-cyclopentenyl isomer (alternative name) (79), bioethanomethrin [CCN], biopermethrin (908), bioresmethrin (80), bis(2-chloroethyl) ether (IUPAC name) (909), bistrifluron (83), borax (86), brofenvalerate (alternative name), bromfenvinfos (914), bromocyclen (918), bromo-DDT (alternative name) [CCN], bromophos (920), bromophos-ethyl (921), bufencarb (924), buprofezin (99), butacarb (926), butathiofos (927), butocarboxim (103), butonate (932), butoxycarboxim (104), butylpyridaben (alternative name), cadusafos (109), calcium arsenate [CCN], calcium cyanide (444), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbon disulfide (IUPAC/Chemical Abstracts name) (945), carbon tetrachloride (IUPAC name) (946), carbophenothion (947), carbosulfan (119), cartap (123), cartap hydrochloride (123), cevadine (alternative name) (725), chlorbicyclen (960), chlordane (128), chlordecone (963), chlordimeform (964), chlordimeform hydrochloride (964), chlorethoxyfos (129), chlorfenapyr (130), chlorfenvinphos (131), chlorfluazuron (132), chlormephos (136), chloroform [CCN], chloropicrin (141), chlorphoxim (989), chlorprazophos (990), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), chromafenozide (150), cinerin I (696), cinerin II (696), cinerins (696), cis-resmethrin (alternative name), cismethrin (80), clocythrins (alternative name), cloethocarb (999), closantel (alternative name) [CCN], clothianidin (165), copper acetoarsenite [CCN], copper arsenate [CCN], copper oleate [CCN], coumaphos (174), coumithoate (1006), crotamiton (alternative name) [CCN], crotoxyphos (1010), crufomate (1011), cryolite (alternative name) (177), CS 708 (development code) (1012), cyanofenphos

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(1019), cyanophos (184), cyanthoate (1020), cyclethrin [CCN], cycloprothrin (188), cyfluthrin (193), cyhalothrin (196), cypermethrin (201), cyphenothrin (206), cyromazine (209), cythioate (alternative name) [CCN], *d*-limonene (alternative name) [CCN], *d*-tetramethrin (alternative name) (788), DAEP (1031), dazomet (216), DDT (219), decarbofuran (1034), deltamethrin (223), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthiuron (226), dialifos (1042), diamidafos (1044), diazinon (227), dicapthon (1050), dichlofenthion (1051), dichlorvos (236), dicliphos (alternative name), dicresyl (alternative name) [CCN], dicrotophos (243), dicyclanil (244), dieldrin (1070), diethyl 5-methylpyrazol-3-yl phosphate (IUPAC name) (1076), diflubenzuron (250), dilor (alternative name) [CCN], dimefluthrin [CCN], dimefox (1081), dimetan (1085), dimethoate (262), dimethrin (1083), dimethylvinphos (265), dimetilan (1086), dinex (1089), dinex-diclexine (1089), dinoprop (1093), dinosam (1094), dinoseb (1095), dinotefuran (271), diofenolan (1099), dioxabenzofos (1100), dioxacarb (1101), dioxathion (1102), disulfoton (278), dithicrofos (1108), DNOC (282), doramectin (alternative name) [CCN], DSP (1115), ecdysterone (alternative name) [CCN], EI 1642 (development code) (1118), emamectin (291), emamectin benzoate (291), EMPC (1120), empenthrin (292), endosulfan (294), endothion (1121), endrin (1122), EPBP (1123), EPN (297), epofenonane (1124), eprinomectin (alternative name) [CCN], esfenvalerate (302), etaphos (alternative name) [CCN], ethiofencarb (308), ethion (309), ethiprole (310), ethoate-methyl (1134), ethoprophos (312), ethyl formate (IUPAC name) [CCN], ethyl-DDD (alternative name) (1056), ethylene dibromide (316), ethylene dichloride (chemical name) (1136), ethylene oxide [CCN], etofenprox (319), etrimfos (1142), EXD (1143), famphur (323), fenamiphos (326), fenazaflor (1147), fenchlorphos (1148), fenethacarb (1149), fenfluthrin (1150), fenitrothion (335), fenobucarb (336), fenoxacrim (1153), fenoxycarb (340), fenpirithrin (1155), fenpropathrin (342), fenpyrad (alternative name), fensulfothion (1158), fenthion (346), fenthion-ethyl [CCN], fenvalerate (349), fipronil (354), flonicamid (358), flucofuron (1168), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenerim [CCN], flufenoxuron (370), flufenprox (1171), flumethrin (372), fluvalinate (1184), FMC 1137 (development code) (1185), fonofos (1191), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), fosmethilan (1194), fospirate (1195), fosthiazate (408), fosthietan (1196), furathiocarb (412), furethrin (1200), gamma-cyhalothrin (197), gamma-HCH (430), guazatine (422), guazatine acetates (422), GY-81 (development code) (423), halfenprox (424), halofenozide (425), HCH (430), HEOD (1070), heptachlor

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(1211), heptenophos (432), heterophos [CCN], hexaflumuron (439), HHDN (864), hydramethylnon (443), hydrogen cyanide (444), hydroprene (445), hyquincarb (1223), imidacloprid (458), imiprothrin (460), indoxacarb (465), iodomethane (IUPAC name) (542), IPSP (1229), isazofos (1231), isobenzan (1232), isocarbophos (alternative name) (473), isodrin (1235), isofenphos (1236), isolane (1237), isoprocab (472), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), isoprothiolane (474), isothioate (1244), isoxathion (480), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), juvenile hormone I (alternative name) [CCN], juvenile hormone II (alternative name) [CCN], juvenile hormone III (alternative name) [CCN], kelevan (1249), kinoprene (484), lambda-cyhalothrin (198), lead arsenate [CCN], leptophos (1250), lindane (430), lirimfos (1251), lufenuron (490), lythidathion (1253), *m*-cumenyl methylcarbamate (IUPAC name) (1014), magnesium phosphide (IUPAC name) (640), malathion (492), malonoben (1254), mazidox (1255), mecarbam (502), mecarphon (1258), menazon (1260), mephosfolan (1261), mercurous chloride (513), mesulfenfos (1263), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methacrifos (1266), methamidophos (527), methanesulfonyl fluoride (IUPAC/Chemical Abstracts name) (1268), methidathion (529), methiocarb (530), methocrotophos (1273), methomyl (531), methoprene (532), methoquin-butyl (1276), methothrin (alternative name) (533), methoxychlor (534), methoxyfenozide (535), methyl bromide (537), methyl isothiocyanate (543), methylchloroform (alternative name) [CCN], methylene chloride [CCN], metofluthrin [CCN], metolcarb (550), metoxadiazone (1288), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), mirex (1294), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naftalofos (alternative name) [CCN], naled (567), naphthalene (IUPAC/Chemical Abstracts name) (1303), NC-170 (development code) (1306), NC-184 (compound code), nicotine (578), nicotine sulfate (578), nifluridide (1309), nitenpyram (579), nithiazine (1311), nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), nornicotine (traditional name) (1319), novaluron (585), noviflumuron (586), O-2,5-dichloro-4-iodophenyl O-ethyl ethylphosphonothioate (IUPAC name) (1057), O,O-diethyl O-4-methyl-2-oxo-2*H*-chromen-7-yl phosphorothioate (IUPAC name) (1074), O,O-diethyl O-6-methyl-2-propylpyrimidin-4-yl phosphorothioate (IUPAC name) (1075), O,O,O',O'-tetrapropyl dithiopyrophosphate (IUPAC name) (1424), oleic acid (IUPAC name) (593), omethoate (594), oxamyl (602), oxydemeton-methyl (609), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), para-dichlorobenzene [CCN], parathion (615),

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parathion-methyl (616), penfluron (alternative name) [CCN], pentachlorophenol (623), pentachlorophenyl laurate (IUPAC name) (623), permethrin (626), petroleum oils (alternative name) (628), PH 60-38 (development code) (1328), phenkapton (1330), phenothrin (630), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosnichlor (1339), phosphamidon (639), phosphine (IUPAC name) (640), phoxim (642), phoxim-methyl (1340), pirimetaphos (1344), pirimicarb (651), pirimiphos-ethyl (1345), pirimiphos-methyl (652), polychlorodicyclopentadiene isomers (IUPAC name) (1346), polychloroterpenes (traditional name) (1347), potassium arsenite [CCN], potassium thiocyanate [CCN], prallethrin (655), precocene I (alternative name) [CCN], precocene II (alternative name) [CCN], precocene III (alternative name) [CCN], primidophos (1349), profenofos (662), profluthrin [CCN], promacyl (1354), promecarb (1355), propaphos (1356), propetamphos (673), propoxur (678), prothidathion (1360), prothiofos (686), prothoate (1362), protrifenbute [CCN], pymetrozine (688), pyraclofos (689), pyrazophos (693), pyresmethrin (1367), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridalyl (700), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), pyriproxyfen (708), quassia (alternative name) [CCN], quinalphos (711), quinalphos-methyl (1376), quinothion (1380), quintiofos (1381), R-1492 (development code) (1382), rafoxanide (alternative name) [CCN], resmethrin (719), rotenone (722), RU 15525 (development code) (723), RU 25475 (development code) (1386), ryania (alternative name) (1387), ryanodine (traditional name) (1387), sabadilla (alternative name) (725), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), silafluofen (728), SN 72129 (development code) (1397), sodium arsenite [CCN], sodium cyanide (444), sodium fluoride (IUPAC/Chemical Abstracts name) (1399), sodium hexafluorosilicate (1400), sodium pentachlorophenoxide (623), sodium selenate (IUPAC name) (1401), sodium thiocyanate [CCN], sophamide (1402), spinosad (737), spiromesifen (739), sulcofuron (746), sulcofuron-sodium (746), sulfluramid (750), sulfotep (753), sulfuryl fluoride (756), sulprofos (1408), tar oils (alternative name) (758), tau-fluvalinate (398), tazimcarb (1412), TDE (1414), tebufenozide (762), tebufenpyrad (763), tebupirimfos (764), teflubenzuron (768), tefluthrin (769), temephos (770), TEPP (1417), terallethrin (1418), terbam (alternative name), terbufos (773), tetrachloroethane [CCN], tetrachlorvinphos (777), tetramethrin (787), theta-cypermethrin (204), thiacloprid (791), thiafenox (alternative name), thiamethoxam (792), thicrofos (1428), thiocarboxime (1431), thiocyclam (798), thiocyclam hydrogen oxalate (798), thiodicarb (799), thiofanox (800), thiometon (801), thionazin (1434), thiosultap (803), thiosultap-sodium (803), thuringiensin (alternative name) [CCN], tolfenpyrad

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(809), tralomethrin (812), transfluthrin (813), transpermethrin (1440), triamiphos (1441), triazamate (818), triazophos (820), triazuron (alternative name), trichlorfon (824), trichlormetaphos-3 (alternative name) [CCN], trichloronat (1452), trifenofos (1455), triflumuron (835), trimethacarb (840), triprene (1459), vamidothion (847), vaniliprole [CCN], veratridine (alternative name) (725), veratrine (alternative name) (725), XMC (853), xylylcarb (854), YI-5302 (compound code), zeta-cypermethrin (205), zetamethrin (alternative name), zinc phosphide (640), zolaprofos (1469) and ZXI 8901 (development code) (858),

a molluscicide selected from the group of substances consisting of bis(tributyltin) oxide (IUPAC name) (913), bromoacetamide [CCN], calcium arsenate [CCN], cloethocarb (999), copper acetoarsenite [CCN], copper sulfate (172), fentin (347), ferric phosphate (IUPAC name) (352), metaldehyde (518), methiocarb (530), niclosamide (576), niclosamide-olamine (576), pentachlorophenol (623), sodium pentachlorophenoxide (623), tazimcarb (1412), thiodicarb (799), tributyltin oxide (913), trifenmorph (1454), trimethacarb (840), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

a nematicide selected from the group of substances consisting of 1,2-dibromo-3-chloropropane (IUPAC/Chemical Abstracts name) (1045), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1,3-dichloropropene (233), 3,4-dichlorotetrahydrothiophene 1,1-dioxide (IUPAC/Chemical Abstracts name) (1065), 3-(4-chlorophenyl)-5-methylrhodanine (IUPAC name) (980), 5-methyl-6-thioxo-1,3,5-thiadiazinan-3-ylacetic acid (IUPAC name) (1286), 6-isopentenylaminopurine (alternative name) (210), abamectin (1), acetoprole [CCN], alanycarb (15), aldicarb (16), aldoxycarb (863), AZ 60541 (compound code), benclothiaz [CCN], benomyl (62), butylpyridaben (alternative name), cadusafos (109), carbofuran (118), carbon disulfide (945), carbosulfan (119), chloropicrin (141), chlorpyrifos (145), cloethocarb (999), cytokinins (alternative name) (210), dazomet (216), DBCP (1045), DCIP (218), diamidafos (1044), dichlofenthion (1051), dicliphos (alternative name), dimethoate (262), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ethoprophos (312), ethylene dibromide (316), fenamiphos (326), fenpyrad (alternative name), fensulfothion (1158), fosthiazate (408), fosthietan (1196), furfural (alternative name) [CCN], GY-81 (development code) (423), heterophos [CCN], iodomethane (IUPAC name) (542), isamidofos (1230), isazofos (1231), ivermectin (alternative name) [CCN], kinetin (alternative name) (210), mecarphon (1258), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methyl bromide (537), methyl isothiocyanate (543), milbemycin oxime (alternative name) [CCN],

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moxidectin (alternative name) [CCN], *Myrothecium verrucaria* composition (alternative name) (565), NC-184 (compound code), oxamyl (602), phorate (636), phosphamidon (639), phosphocarb [CCN], sebufos (alternative name), selamectin (alternative name) [CCN], spinosad (737), terbam (alternative name), terbufos (773), tetrachlorothiophene (IUPAC/ Chemical Abstracts name) (1422), thiafenox (alternative name), thionazin (1434), triazophos (820), triazuron (alternative name), xlenols [CCN], YI-5302 (compound code) and zeatin (alternative name) (210),

a nitrification inhibitor selected from the group of substances consisting of potassium ethylxanthate [CCN] and nitrapyrin (580),

a plant activator selected from the group of substances consisting of acibenzolar (6), acibenzolar-S-methyl (6), probenazole (658) and *Reynoutria sachalinensis* extract (alternative name) (720),

a rodenticide selected from the group of substances consisting of 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), alpha-chlorohydrin [CCN], aluminium phosphide (640), antu (880), arsenous oxide (882), barium carbonate (891), bithiosemi (912), brodifacoum (89), bromadiolone (91), bromethalin (92), calcium cyanide (444), chloralose (127), chlorophacinone (140), cholecalciferol (alternative name) (850), coumachlor (1004), coumafuryl (1005), coumatetralyl (175), crimidine (1009), difenacoum (246), difethialone (249), diphacinone (273), ergocalciferol (301), flocoumafen (357), fluoroacetamide (379), flupropadine (1183), flupropadine hydrochloride (1183), gamma-HCH (430), HCH (430), hydrogen cyanide (444), iodomethane (IUPAC name) (542), lindane (430), magnesium phosphide (IUPAC name) (640), methyl bromide (537), norbormide (1318), phosacetim (1336), phosphine (IUPAC name) (640), phosphorus [CCN], pindone (1341), potassium arsenite [CCN], pyrinuron (1371), scilliroside (1390), sodium arsenite [CCN], sodium cyanide (444), sodium fluoroacetate (735), strychnine (745), thallium sulfate [CCN], warfarin (851) and zinc phosphide (640),

a synergist selected from the group of substances consisting of 2-(2-butoxyethoxy)-ethyl piperonylate (IUPAC name) (934), 5-(1,3-benzodioxol-5-yl)-3-hexylcyclohex-2-enone (IUPAC name) (903), farnesol with nerolidol (alternative name) (324), MB-599 (development code) (498), MGK 264 (development code) (296), piperonyl butoxide (649), piprotal (1343), propyl isomer (1358), S421 (development code) (724), sesamex (1393), sesasmolin (1394) and sulfoxide (1406),

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an animal repellent selected from the group of substances consisting of anthraquinone (32), chloralose (127), copper naphthenate [CCN], copper oxychloride (171), diazinon (227), dicyclopentadiene (chemical name) (1069), guazatine (422), guazatine acetates (422), methiocarb (530), pyridin-4-amine (IUPAC name) (23), thiram (804), trimethacarb (840), zinc naphthenate [CCN] and ziram (856),

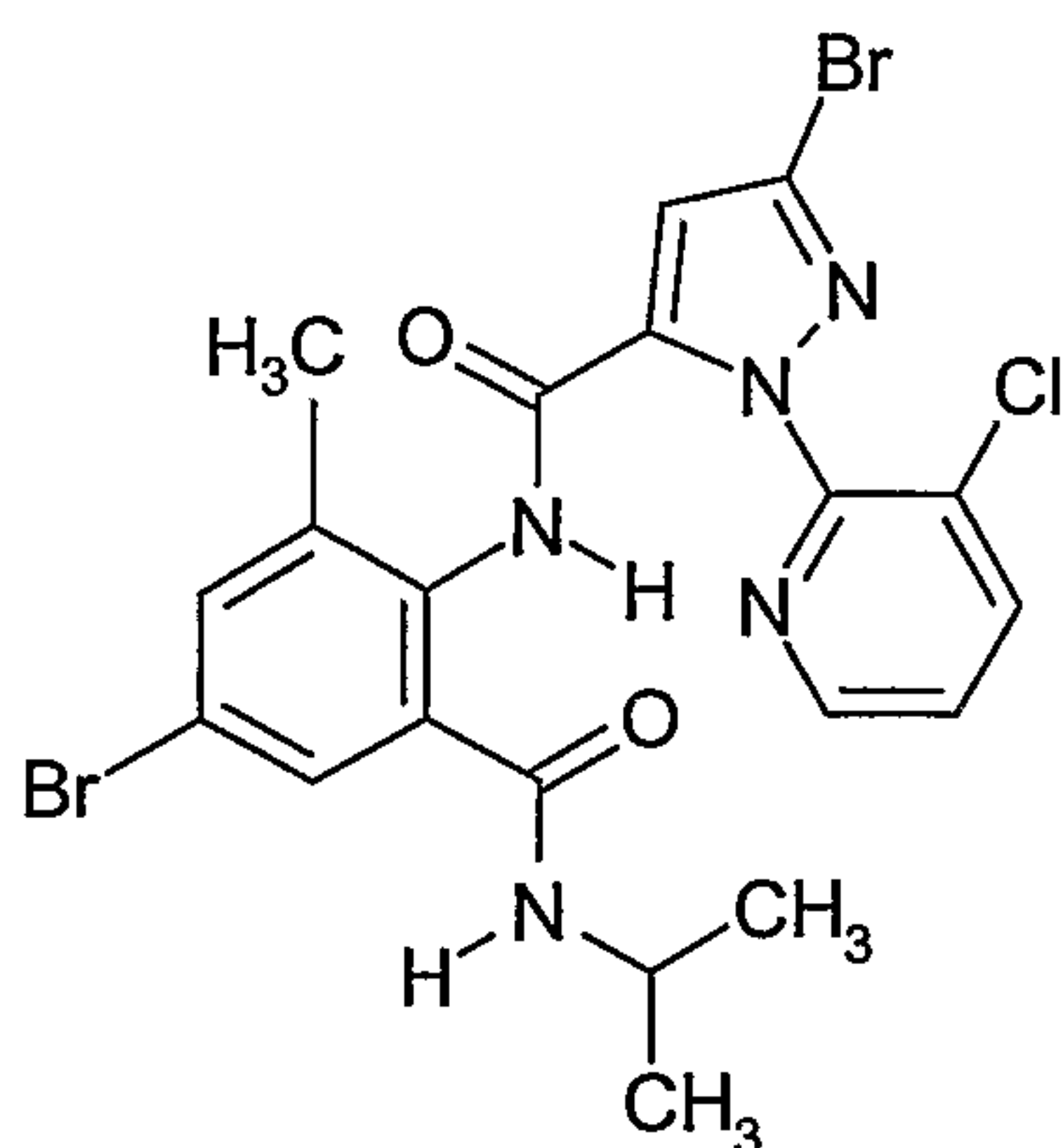
a virucide selected from the group of substances consisting of imanin (alternative name) [CCN] and ribavirin (alternative name) [CCN],

and a wound protectant selected from the group of substances consisting of mercuric oxide (512), octhlinone (590) and thiophanate-methyl (802).

A very especially preferred embodiment of the subject-matter {1.1.2} of the invention is {1.1.2.2} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-2) and the compound (B) is a compound selected from the group of substances consisting of abamectin (1), cyromazine (209), diafenthiuron (226), diazinon (227), emamectin benzoate (291), fenoxycarb (340), fosthiazate (408), lambda-cyhalothrin (198), lufenuron (490), methidathion (529), profenofos (662), pymetrozine (688), tefluthrin (769) and thiamethoxam (792).

The compound of formula (A-2) is known, for example, from the PCT Application WO-03/015519.

A preferred embodiment of the subject-matter {1.1} of the invention is {1.1.3} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-3)



(A-3)

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and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

An especially preferred embodiment of the subject-matter {1.1.3} of the invention is {1.1.3.1} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-3) and the compound (B) is a compound selected from the group of substances consisting of

an adjuvant selected from the group of substances consisting of petroleum oils (alternative name) (628),

an acaricide selected from the group of substances consisting of 1,1-bis(4-chlorophenyl)-2-ethoxyethanol (IUPAC name) (910), 2,4-dichlorophenyl benzenesulfonate (IUPAC/Chemical Abstracts name) (1059), 2-fluoro-*N*-methyl-*N*-1-naphthylacetamide (IUPAC name) (1295), 4-chlorophenyl phenyl sulfone (IUPAC name) (981), abamectin (1), acequinocyl (3), acetoprole [CCN], acrinathrin (9), aldicarb (16), aldoxycarb (863), alpha-cypermethrin (202), amidithion (870), amidoflumet [CCN], amidothioate (872), amiton (875), amiton hydrogen oxalate (875), amitraz (24), aramite (881), arsenous oxide (882), AVI 382 (compound code), AZ 60541 (compound code), azinphos-ethyl (44), azinphos-methyl (45), azobenzene (IUPAC name) (888), azocyclotin (46), azothoate (889), benomyl (62), benoxafos (alternative name) [CCN], benzoximate (71), benzyl benzoate (IUPAC name) [CCN], bifenazate (74), bifenthrin (76), binapacryl (907), brofenvalerate (alternative name), bromocyclen (918), bromophos (920), bromophos-ethyl (921), bromopropylate (94), buprofezin (99), butocarboxim (103), butoxycarboxim (104), butylpyridaben (alternative name), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbophenothion (947), CGA 50'439 (development code) (125), chinomethionat (126), chlorbenside (959), chlordimeform (964), chlordimeform hydrochloride (964), chlorfenapyr (130), chlorfenethol (968), chlorfenson (970), chlorfensulphide (971), chlorfenvinphos (131), chlorobenzilate (975), chloromebuform (977), chloromethiuron (978), chloropropylate (983), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), cinerin I (696), cinerin II (696), cinerins (696), clofentezine (158), closantel (alternative name) [CCN], coumaphos (174), crotamiton (alternative name) [CCN], crotoxyphos (1010),

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cufraneb (1013), cyanthoate (1020), cyhalothrin (196), cyhexatin (199), cypermethrin (201), DCPM (1032), DDT (219), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafen-thiuron (226), dialifos (1042), diazinon (227), dichlofluanid (230), dichlorvos (236), dicliphos (alternative name), dicofol (242), dicrotophos (243), dienochlor (1071), dimefox (1081), dimethoate (262), dinactin (alternative name) (653), dinex (1089), dinex-diclexine (1089), dinobuton (269), dinocap (270), dinocap-4 [CCN], dinocap-6 [CCN], dinocton (1090), dino-penton (1092), dinosulfon (1097), dinoterbon (1098), dioxathion (1102), diphenyl sulfone. (IUPAC name) (1103), disulfiram (alternative name) [CCN], disulfoton (278), DNOC (282), dofenapyn (1113), doramectin (alternative name) [CCN], endosulfan (294), endothion (1121), EPN (297), eprinomectin (alternative name) [CCN], ethion (309), ethoate-methyl (1134), etoxazole (320), etrimfos (1142), fenazaflor (1147), fenazaquin (328), fenbutatin oxide (330), fenothiocarb (337), fenpropathrin (342), fenpyrad (alternative name), fen-pyroximate (345), fenson (1157), fentrifanil (1161), fenvalerate (349), fipronil (354), fluacry-pyrim (360), fluazuron (1166), flubenzimine (1167), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenoxuron (370), flumethrin (372), fluorbenside (1174), fluvalinate (1184), FMC 1137 (development code) (1185), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), gamma-HCH (430), glyodin (1205), halfenprox (424), heptenophos (432), hexadecyl cyclopropanecarboxylate (IUPAC/Chemical Abstracts name) (1216), hexythiazox (441), iodomethane (IUPAC name) (542), isocarbophos (alternative name) (473), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), lindane (430), lufenuron (490), malathion (492), malonoben (1254), mecarbam (502), mephosfolan (1261), mesulfen (alternative name) [CCN], methacrifos (1266), methamidophos (527), methidathion (529), methiocarb (530), methomyl (531), methyl bromide (537), metolcarb (550), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naled (567), NC-184 (compound code), nifluridide (1309), nikkomycins (alternative name) [CCN], nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), omethoate (594), oxamyl (602), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), parathion (615), permethrin (626), petroleum oils (alternative name) (628), phenkapton (1330), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638),

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phosphamidon (639), phoxim (642), pirimiphos-methyl (652), polychloroterpenes (traditional name) (1347), polynactins (alternative name) (653), proclonol (1350), profenofos (662), promacyl (1354), propargite (671), propetamphos (673), propoxur (678), prothidathion (1360), prothoate (1362), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), quinalphos (711), quintiofos (1381), R-1492 (development code) (1382), RA-17 (development code) (1383), rotenone (722), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), sophamide (1402), spirodiclofen (738), spiromesifen (739), SSI-121 (development code) (1404), sulfiram (alternative name) [CCN], sulfluramid (750), sulfotep (753), sulfur (754), SZI-121 (development code) (757), tau-fluvalinate (398), tebufenpyrad (763), TEPP (1417), terbam (alternative name), tetrachlorvinphos (777), tetradifon (786), tetranactin (alternative name) (653), tetrasul (1425), thiafenox (alternative name), thiocarboxime (1431), thiofanox (800), thiometon (801), thioquinox (1436), thuringiensin (alternative name) [CCN], triamiphos (1441), triarathene (1443), triazophos (820), triazuron (alternative name), trichlorfon (824), trifenofos (1455), trinactin (alternative name) (653), vamidothion (847), vaniliprole [CCN] and YI-5302 (compound code),

an algicide selected from the group of substances consisting of bethoxazin [CCN], copper dioctanoate (IUPAC name) (170), copper sulfate (172), cybutryne [CCN], dichlone (1052), dichlorophen (232), endothal (295), fentin (347), hydrated lime [CCN], nabam (566), quinoclamine (714), quinonamid (1379), simazine (730), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

an anthelmintic selected from the group of substances consisting of abamectin (1), crufomate (1011), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ivermectin (alternative name) [CCN], milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], piperazine [CCN], selamectin (alternative name) [CCN], spinosad (737) and thiophanate (1435),

an avicide selected from the group of substances consisting of chloralose (127), endrin (1122), fenthion (346), pyridin-4-amine (IUPAC name) (23) and strychnine (745),

a bactericide selected from the group of substances consisting of 1-hydroxy-1*H*-pyridine-2-thione (IUPAC name) (1222), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), 8-hydroxyquinoline sulfate (446), bronopol (97), copper dioctanoate (IUPAC name) (170), copper hydroxide (IUPAC name) (169), cresol [CCN], dichlorophen (232), dipyrithione (1105), dodicin (1112), fenaminosulf (1144), formaldehyde (404),

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hydrargaphen (alternative name) [CCN], kasugamycin (483), kasugamycin hydrochloride hydrate (483), nickel bis(dimethyldithiocarbamate) (IUPAC name) (1308), nitrapyrin (580), octhilinone (590), oxolinic acid (606), oxytetracycline (611), potassium hydroxyquinoline sulfate (446), probenazole (658), streptomycin (744), streptomycin sesquisulfate (744), tecloftalam (766) and thiomersal (alternative name) [CCN],

a biological agent selected from the group of substances consisting of *Adoxophyes orana* GV (alternative name) (12), *Agrobacterium radiobacter* (alternative name) (13), *Amblyseius* spp. (alternative name) (19), *Anagrapha falcifera* NPV (alternative name) (28), *Anagrus atomus* (alternative name) (29), *Aphelinus abdominalis* (alternative name) (33), *Aphidius colemani* (alternative name) (34), *Aphidoletes aphidimyza* (alternative name) (35), *Autographa californica* NPV (alternative name) (38), *Bacillus firmus* (alternative name) (48), *Bacillus sphaericus* Neide (scientific name) (49), *Bacillus thuringiensis* Berliner (scientific name) (51), *Bacillus thuringiensis* subsp. *aizawai* (scientific name) (51), *Bacillus thuringiensis* subsp. *israelensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *japonensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *kurstaki* (scientific name) (51), *Bacillus thuringiensis* subsp. *tenebrionis* (scientific name) (51), *Beauveria bassiana* (alternative name) (53), *Beauveria brongniartii* (alternative name) (54), *Chrysoperla carnea* (alternative name) (151), *Cryptolaemus montrouzieri* (alternative name) (178), *Cydia pomonella* GV (alternative name) (191), *Dacnusa sibirica* (alternative name) (212), *Diglyphus isaea* (alternative name) (254), *Encarsia formosa* (scientific name) (293), *Eretmocerus eremicus* (alternative name) (300), *Helicoverpa zea* NPV (alternative name) (431), *Heterorhabditis bacteriophora* and *H. megidis* (alternative name) (433), *Hippodamia convergens* (alternative name) (442), *Leptomastix dactylopii* (alternative name) (488), *Macrolophus caliginosus* (alternative name) (491), *Mamestra brassicae* NPV (alternative name) (494), *Metaphycus helvolus* (alternative name) (522), *Metarhizium anisopliae* var. *acridum* (scientific name) (523), *Metarhizium anisopliae* var. *anisopliae* (scientific name) (523), *Neodiprion sertifer* NPV and *N. lecontei* NPV (alternative name) (575), *Orius* spp. (alternative name) (596), *Paecilomyces fumosoroseus* (alternative name) (613), *Phytoseiulus persimilis* (alternative name) (644), *Spodoptera exigua* multicapsid nuclear polyhedrosis virus (scientific name) (741), *Steinernema bibionis* (alternative name) (742), *Steinernema carpocapsae* (alternative name) (742), *Steinernema feltiae* (alternative name) (742), *Steinernema glaseri* (alternative name) (742), *Steinernema riobrave* (alternative name) (742), *Steinernema riobravus* (alternative name) (742), *Steinernema scapterisci* (alternative name) (742), *Steinernema* spp. (alternative name) (742), *Trichogramma* spp.

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(alternative name) (826), *Typhlodromus occidentalis* (alternative name) (844) and *Verticillium lecanii* (alternative name) (848),

a soil sterilant selected from the group of substances consisting of iodomethane (IUPAC name) (542) and methyl bromide (537),

a chemosterilant selected from the group of substances consisting of apholate [CCN], bisazir (alternative name) [CCN], busulfan (alternative name) [CCN], diflubenzuron (250), dimatif (alternative name) [CCN], hemel [CCN], hempa [CCN], metepa [CCN], methiotepa [CCN], methyl apholate [CCN], morzid [CCN], penfluron (alternative name) [CCN], tepa [CCN], thiohempa (alternative name) [CCN], thiotepa (alternative name) [CCN], tretamine (alternative name) [CCN] and uredepa (alternative name) [CCN],

an insect pheromone selected from the group of substances consisting of (*E*)-dec-5-en-1-yl acetate with (*E*)-dec-5-en-1-ol (IUPAC name) (222), (*E*)-tridec-4-en-1-yl acetate (IUPAC name) (829), (*E*)-6-methylhept-2-en-4-ol (IUPAC name) (541), (*E,Z*)-tetradeca-4,10-dien-1-yl acetate (IUPAC name) (779), (*Z*)-dodec-7-en-1-yl acetate (IUPAC name) (285), (*Z*)-hexadec-11-enal (IUPAC name) (436), (*Z*)-hexadec-11-en-1-yl acetate (IUPAC name) (437), (*Z*)-hexadec-13-en-11-yn-1-yl acetate (IUPAC name) (438), (*Z*)-icos-13-en-10-one (IUPAC name) (448), (*Z*)-tetradec-7-en-1-al (IUPAC name) (782), (*Z*)-tetradec-9-en-1-ol (IUPAC name) (783), (*Z*)-tetradec-9-en-1-yl acetate (IUPAC name) (784), (*7E,9Z*)-dodeca-7,9-dien-1-yl acetate (IUPAC name) (283), (*9Z,11E*)-tetradeca-9,11-dien-1-yl acetate (IUPAC name) (780), (*9Z,12E*)-tetradeca-9,12-dien-1-yl acetate (IUPAC name) (781), 14-methyloctadec-1-ene (IUPAC name) (545), 4-methylnonan-5-ol with 4-methylnonan-5-one (IUPAC name) (544), alpha-multistriatin (alternative name) [CCN], brevicomin (alternative name) [CCN], codlelure (alternative name) [CCN], codlemone (alternative name) (167), cuelure (alternative name) (179), disarlure (277), dodec-8-en-1-yl acetate (IUPAC name) (286), dodec-9-en-1-yl acetate (IUPAC name) (287), dodeca-8,10-dien-1-yl acetate (IUPAC name) (284), dominicalure (alternative name) [CCN], ethyl 4-methyloctanoate (IUPAC name) (317), eugenol (alternative name) [CCN], frontalinal (alternative name) [CCN], gossyplure (alternative name) (420), grandlure (421), grandlure I (alternative name) (421), grandlure II (alternative name) (421), grandlure III (alternative name) (421), grandlure IV (alternative name) (421), hexalure [CCN], ipsdienol (alternative name) [CCN], ipsenol (alternative name) [CCN], japonilure (alternative name) (481), lineatin (alternative name) [CCN], litlure (alternative name) [CCN], looplure (alternative name) [CCN], medlure [CCN], megatomoic acid (alternative name) [CCN], methyl eugenol (alternative name) (540), muscalure (563), octadeca-2,13-dien-1-yl acetate (IUPAC name) (588), octadeca-3,13-dien-1-yl acetate

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(IUPAC name) (589), orfralure (alternative name) [CCN], oryctalure (alternative name) (317), ostramone (alternative name) [CCN], siglure [CCN], sordidin (alternative name) (736), sulcatol (alternative name) [CCN], tetradec-11-en-1-yl acetate (IUPAC name) (785), trimedlure (839), trimedlure A (alternative name) (839), trimedlure B₁ (alternative name) (839), trimedlure B₂ (alternative name) (839), trimedlure C (alternative name) (839) and trunc-call (alternative name) [CCN],

an insect repellent selected from the group of substances consisting of 2-(octylthio)-ethanol (IUPAC name) (591), butopyronoxyl (933), butoxy(polypropylene glycol) (936), dibutyl adipate (IUPAC name) (1046), dibutyl phthalate (1047), dibutyl succinate (IUPAC name) (1048), diethyltoluamide [CCN], dimethyl carbate [CCN], dimethyl phthalate [CCN], ethyl hexanediol (1137), hexamide [CCN], methoquin-butyl (1276), methylneodecanamide [CCN], oxamate [CCN] and picaridin [CCN],

an insecticide selected from the group of substances consisting of 1,1-dichloro-1-nitroethane (IUPAC/Chemical Abstracts name) (1058), 1,1-dichloro-2,2-bis(4-ethylphenyl)-ethane (IUPAC name) (1056), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1-bromo-2-chloroethane (IUPAC/Chemical Abstracts name) (916), 2,2,2-trichloro-1-(3,4-dichlorophenyl)ethyl acetate (IUPAC name) (1451), 2,2-dichlorovinyl 2-ethylsulfinylethyl methyl phosphate (IUPAC name) (1066), 2-(1,3-dithiolan-2-yl)phenyl dimethylcarbamate (IUPAC/Chemical Abstracts name) (1109), 2-(2-butoxyethoxy)ethyl thiocyanate (IUPAC/Chemical Abstracts name) (935), 2-(4,5-dimethyl-1,3-dioxolan-2-yl)phenyl methylcarbamate (IUPAC/Chemical Abstracts name) (1084), 2-(4-chloro-3,5-xylyloxy)ethanol (IUPAC name) (986), 2-chlorovinyl diethyl phosphate (IUPAC name) (984), 2-imidazolidone (IUPAC name) (1225), 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 2-methyl(prop-2-ynyl)aminophenyl methylcarbamate (IUPAC name) (1284), 2-thiocyanatoethyl laurate (IUPAC name) (1433), 3-bromo-1-chloroprop-1-ene (IUPAC name) (917), 3-methyl-1-phenylpyrazol-5-yl dimethylcarbamate (IUPAC name) (1283), 4-methyl(prop-2-ynyl)amino-3,5-xylyl methylcarbamate (IUPAC name) (1285), 5,5-dimethyl-3-oxocyclohex-1-enyl dimethylcarbamate (IUPAC name) (1085), abamectin (1), acephate (2), acetamiprid (4), acethion (alternative name) [CCN], acetoprole [CCN], acrinathrin (9), acrylonitrile (IUPAC name) (861), alanycarb (15), aldicarb (16), aldoxycarb (863), aldrin (864), allethrin (17), allosamidin (alternative name) [CCN], allyxycarb (866), alpha-cypermethrin (202), alpha-ecdysone (alternative name) [CCN], aluminium phosphide (640), amidithion (870), amidothioate (872), aminocarb (873), amiton (875), amiton hydrogen oxalate (875), amitraz (24), anabasine (877), athidathion (883), AVI

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382 (compound code), AZ 60541 (compound code), azadirachtin (alternative name) (41), azamethiphos (42), azinphos-ethyl (44), azinphos-methyl (45), azothoate (889), *Bacillus thuringiensis* delta endotoxins (alternative name) (52), barium hexafluorosilicate (alternative name) [CCN], barium polysulfide (IUPAC/Chemical Abstracts name) (892), barthrin [CCN], BAS 320 I (compound code), Bayer 22/190 (development code) (893), Bayer 22408 (development code) (894), bendiocarb (58), benfuracarb (60), bensultap (66), beta-cyfluthrin (194), beta-cypermethrin (203), bifenthrin (76), bioallethrin (78), bioallethrin S-cyclopentenyl isomer (alternative name) (79), bioethanomethrin [CCN], biopermethrin (908), bioresmethrin (80), bis(2-chloroethyl) ether (IUPAC name) (909), bistrifluron (83), borax (86), brofenvalerate (alternative name), bromfenvinfos (914), bromocyclen (918), bromo-DDT (alternative name) [CCN], bromophos (920), bromophos-ethyl (921), bufencarb (924), buprofezin (99), butacarb (926), butathiofos (927), butocarboxim (103), butonate (932), butoxycarboxim (104), butylpyridaben (alternative name), cadusafos (109), calcium arsenate [CCN], calcium cyanide (444), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbon disulfide (IUPAC/Chemical Abstracts name) (945), carbon tetrachloride (IUPAC name) (946), carbophenothion (947), carbosulfan (119), cartap (123), cartap hydrochloride (123), cevadine (alternative name) (725), chlorbicyclen (960), chlordane (128), chlordecone (963), chlordimeform (964), chlordimeform hydrochloride (964), chlorethoxyfos (129), chlorfenapyr (130), chlorfenvinphos (131), chlorfluazuron (132), chlormephos (136), chloroform [CCN], chloropicrin (141), chlorphoxim (989), chlorprazophos (990), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), chromafenozide (150), cinerin I (696), cinerin II (696), cinerins (696), cis-resmethrin (alternative name), cismethrin (80), clocythrin (alternative name), cloethocarb (999), closantel (alternative name) [CCN], clothianidin (165), copper acetoarsenite [CCN], copper arsenate [CCN], copper oleate [CCN], coumaphos (174), coumithoate (1006), crotamiton (alternative name) [CCN], crotoxyphos (1010), cruformate (1011), cryolite (alternative name) (177), CS 708 (development code) (1012), cyanofenphos (1019), cyanophos (184), cyanthoate (1020), cyclethrin [CCN], cycloprothrin (188), cyfluthrin (193), cyhalothrin (196), cypermethrin (201), cyphenothrin (206), cyromazine (209), cythioate (alternative name) [CCN], *d*-limonene (alternative name) [CCN], *d*-tetramethrin (alternative name) (788), DAEP (1031), dazomet (216), DDT (219), decarbofuran (1034), deltamethrin (223), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthiuron (226), dialifos

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(1042), diamidafos (1044), diazinon (227), dicapthon (1050), dichlofenthion (1051), dichlorvos (236), dicliphos (alternative name), dicresyl (alternative name) [CCN], dicrotophos (243), dicyclanil (244), dieldrin (1070), diethyl 5-methylpyrazol-3-yl phosphate (IUPAC name) (1076), diflubenzuron (250), dilor (alternative name) [CCN], dimefluthrin [CCN], dimefox (1081), dimetan (1085), dimethoate (262), dimethrin (1083), dimethylvinphos (265), dimetilan (1086), dinex (1089), dinex-diclexine (1089), dinoprop (1093), dinosam (1094), dinoseb (1095), dinotefuran (271), diofenolan (1099), dioxabenzofos (1100), dioxacarb (1101), dioxathion (1102), disulfoton (278), dithicrofos (1108), DNOC (282), doramectin (alternative name) [CCN], DSP (1115), ecdysterone (alternative name) [CCN], EI 1642 (development code) (1118), emamectin (291), emamectin benzoate (291), EMPC (1120), empenhrin (292), endosulfan (294), endothion (1121), endrin (1122), EPBP (1123), EPN (297), epofenonane (1124), eprinomectin (alternative name) [CCN], esfenvalerate (302), etaphos (alternative name) [CCN], ethiofencarb (308), ethion (309), ethiprole (310), ethoate-methyl (1134), ethoprophos (312), ethyl formate (IUPAC name) [CCN], ethyl-DDD (alternative name) (1056), ethylene dibromide (316), ethylene dichloride (chemical name) (1136), ethylene oxide [CCN], etofenprox (319), etrimfos (1142), EXD (1143), famphur (323), fenamiphos (326), fenazaflor (1147), fenchlorphos (1148), fenethacarb (1149), fenfluthrin (1150), fenitrothion (335), fenobucarb (336), fenoxacrim (1153), fenoxycarb (340), fenpirithrin (1155), fenpropathrin (342), fenpyrad (alternative name), fensulfothion (1158), fenthion (346), fenthion-ethyl [CCN], fenvalerate (349), fipronil (354), flonicamid (358), flucofuron (1168), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenerim [CCN], flufenoxuron (370), flufenprox (1171), flumethrin (372), fluvalinate (1184), FMC 1137 (development code) (1185), fonofos (1191), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), fosmethilan (1194), fospirate (1195), fosthiazate (408), fosthietan (1196), furathiocarb (412), furethrin (1200), gamma-cyhalothrin (197), gamma-HCH (430), guazatine (422), guazatine acetates (422), GY-81 (development code) (423), halfenprox (424), halofenozide (425), HCH (430), HEOD (1070), heptachlor (1211), heptenophos (432), heterophos [CCN], hexaflumuron (439), HHDN (864), hydramethylnon (443), hydrogen cyanide (444), hydroprene (445), hyquincarb (1223), imidacloprid (458), imiprothrin (460), indoxacarb (465), iodomethane (IUPAC name) (542), IPSP (1229), isazofos (1231), isobenzan (1232), isocarbophos (alternative name) (473), isodrin (1235), isofenphos (1236), isolane (1237), isoprocab (472), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), isoprothiolane (474), isothioate (1244), isoxathion (480), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696),

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jodfenphos (1248), juvenile hormone I (alternative name) [CCN], juvenile hormone II (alternative name) [CCN], juvenile hormone III (alternative name) [CCN], kelevan (1249), kinoprene (484), lambda-cyhalothrin (198), lead arsenate [CCN], leptophos (1250), lindane (430), lirimfos (1251), lufenuron (490), lythidathion (1253), *m*-cumenyl methylcarbamate (IUPAC name) (1014), magnesium phosphide (IUPAC name) (640), malathion (492), malonoben (1254), mazidox (1255), mecarbam (502), mecarphon (1258), menazon (1260), mephosfolan (1261), mercurous chloride (513), mesulfenfos (1263), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methacrifos (1266), methamidophos (527), methanesulfonyl fluoride (IUPAC/Chemical Abstracts name) (1268), methidathion (529), methiocarb (530), methocrotophos (1273), methomyl (531), methoprene (532), methoquin-butyl (1276), methothrin (alternative name) (533), methoxychlor (534), methoxyfenozide (535), methyl bromide (537), methyl isothiocyanate (543), methylchloroform (alternative name) [CCN], methylene chloride [CCN], metofluthrin [CCN], metolcarb (550), metoxadiazone (1288), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), mirex (1294), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naftalofos (alternative name) [CCN], naled (567), naphthalene (IUPAC/Chemical Abstracts name) (1303), NC-170 (development code) (1306), NC-184 (compound code), nicotine (578), nicotine sulfate (578), nifluridide (1309), nitenpyram (579), nithiazine (1311), nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), nornicotine (traditional name) (1319), novaluron (585), noviflumuron (586), O-2,5-dichloro-4-iodophenyl O-ethyl ethylphosphonothioate (IUPAC name) (1057), O,O-diethyl O-4-methyl-2-oxo-2*H*-chromen-7-yl phosphorothioate (IUPAC name) (1074), O,O-diethyl O-6-methyl-2-propylpyrimidin-4-yl phosphorothioate (IUPAC name) (1075), O,O,O',O'-tetrapropyl dithiopyrophosphate (IUPAC name) (1424), oleic acid (IUPAC name) (593), omethoate (594), oxamyl (602), oxydemeton-methyl (609), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), para-dichlorobenzene [CCN], parathion (615), parathion-methyl (616), penfluron (alternative name) [CCN], pentachlorophenol (623), pentachlorophenyl laurate (IUPAC name) (623), permethrin (626), petroleum oils (alternative name) (628), PH 60-38 (development code) (1328), phenkapton (1330), phenothrin (630), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosnichlor (1339), phosphamidon (639), phosphine (IUPAC name) (640), phoxim (642), phoxim-methyl (1340), pirimetaphos (1344), pirimicarb (651), pirimiphos-ethyl (1345), pirimiphos-methyl (652), polychlorodicyclopentadiene isomers (IUPAC name) (1346),

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polychloroterpenes (traditional name) (1347), potassium arsenite [CCN], potassium thiocyanate [CCN], prallethrin (655), precocene I (alternative name) [CCN], precocene II (alternative name) [CCN], precocene III (alternative name) [CCN], primidophos (1349), profenofos (662), profluthrin [CCN], promacyl (1354), promecarb (1355), propaphos (1356), propetamphos (673), propoxur (678), prothidathion (1360), prothiofos (686), prothoate (1362), protrifenbute [CCN], pymetrozine (688), pyraclofos (689), pyrazophos (693), pyresmethrin (1367), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridalyl (700), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), pyriproxyfen (708), quassia (alternative name) [CCN], quinalphos (711), quinalphos-methyl (1376), quinothion (1380), quintiofos (1381), R-1492 (development code) (1382), rafoxanide (alternative name) [CCN], resmethrin (719), rotenone (722), RU 15525 (development code) (723), RU 25475 (development code) (1386), ryania (alternative name) (1387), ryanodine (traditional name) (1387), sabadilla (alternative name) (725), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), silafluofen (728), SN 72129 (development code) (1397), sodium arsenite [CCN], sodium cyanide (444), sodium fluoride (IUPAC/Chemical Abstracts name) (1399), sodium hexafluorosilicate (1400), sodium pentachlorophenoxide (623), sodium selenate (IUPAC name) (1401), sodium thiocyanate [CCN], sophamide (1402), spinosad (737), spiromesifen (739), sulcofuron (746), sulcofuron-sodium (746), sulfluramid (750), sulfotep (753), sulfuryl fluoride (756), sulprofos (1408), tar oils (alternative name) (758), tau-fluvalinate (398), tazimcarb (1412), TDE (1414), tebufenozide (762), tebufenpyrad (763), tebupirimfos (764), teflubenzuron (768), tefluthrin (769), temephos (770), TEPP (1417), terallethrin (1418), terbam (alternative name), terbufos (773), tetrachloroethane [CCN], tetrachlorvinphos (777), tetramethrin (787), theta-cypermethrin (204), thiacloprid (791), thiafenox (alternative name), thiamethoxam (792), thicrofos (1428), thiocarboxime (1431), thiocyclam (798), thiocyclam hydrogen oxalate (798), thiodicarb (799), thiofanox (800), thiometon (801), thionazin (1434), thiosultap (803), thiosultap-sodium (803), thuringiensin (alternative name) [CCN], tolfenpyrad (809), tralomethrin (812), transfluthrin (813), transpermethrin (1440), triamiphos (1441), triazamate (818), triazophos (820), triazuron (alternative name), trichlorfon (824), trichlormetaphos-3 (alternative name) [CCN], trichloronat (1452), trifenofos (1455), triflumuron (835), trimethacarb (840), triprene (1459), vamidothion (847), vaniliprole [CCN], veratridine (alternative name) (725), veratrine (alternative name) (725), XMC (853), xylylcarb (854), YI-5302 (compound code), zeta-cypermethrin (205), zetamethrin (alternative name), zinc phosphide (640), zolaprofos (1469) and ZXI 8901 (development code) (858),

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a molluscicide selected from the group of substances consisting of bis(tributyltin) oxide (IUPAC name) (913), bromoacetamide [CCN], calcium arsenate [CCN], cloethocarb (999), copper acetoarsenite [CCN], copper sulfate (172), fentin (347), ferric phosphate (IUPAC name) (352), metaldehyde (518), methiocarb (530), niclosamide (576), niclosamide-olamine (576), pentachlorophenol (623), sodium pentachlorophenoxide (623), tazimcarb (1412), thiodicarb (799), tributyltin oxide (913), trifenmorph (1454), trimethacarb (840), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

a nematicide selected from the group of substances consisting of 1,2-dibromo-3-chloropropane (IUPAC/Chemical Abstracts name) (1045), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1,3-dichloropropene (233), 3,4-dichlorotetrahydrothiophene 1,1-dioxide (IUPAC/Chemical Abstracts name) (1065), 3-(4-chlorophenyl)-5-methylrhodanine (IUPAC name) (980), 5-methyl-6-thioxo-1,3,5-thiadiazinan-3-ylacetic acid (IUPAC name) (1286), 6-isopentenylaminopurine (alternative name) (210), abamectin (1), acetoprole [CCN], alanycarb (15), aldicarb (16), aldoxycarb (863), AZ 60541 (compound code), benclothiaz [CCN], benomyl (62), butylpyridaben (alternative name), cadusafos (109), carbofuran (118), carbon disulfide (945), carbosulfan (119), chloropicrin (141), chlorpyrifos (145), cloethocarb (999), cytokinins (alternative name) (210), dazomet (216), DBCP (1045), DCIP (218), diamidafos (1044), dichlofenthion (1051), dicliphos (alternative name), dimethoate (262), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ethoprophos (312), ethylene dibromide (316), fenamiphos (326), fenpyrad (alternative name), fensulfothion (1158), fosthiazate (408), fosthietan (1196), furfural (alternative name) [CCN], GY-81 (development code) (423), heterophos [CCN], iodomethane (IUPAC name) (542), isamidofos (1230), isazofos (1231), ivermectin (alternative name) [CCN], kinetin (alternative name) (210), mecarphon (1258), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methyl bromide (537), methyl isothiocyanate (543), milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], *Myrothecium verrucaria* composition (alternative name) (565), NC-184 (compound code), oxamyl (602), phorate (636), phosphamidon (639), phosphocarb [CCN], sebufos (alternative name), selamectin (alternative name) [CCN], spinosad (737), terbam (alternative name), terbufos (773), tetrachlorothiophene (IUPAC/Chemical Abstracts name) (1422), thiafenox (alternative name), thionazin (1434), triazophos (820), triazuron (alternative name), xlenols [CCN], YI-5302 (compound code) and zeatin (alternative name) (210),

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a nitrification inhibitor selected from the group of substances consisting of potassium ethylxanthate [CCN] and nitrapyrin (580),

a plant activator selected from the group of substances consisting of acibenzolar (6), acibenzolar-S-methyl (6), probenazole (658) and *Reynoutria sachalinensis* extract (alternative name) (720),

a rodenticide selected from the group of substances consisting of 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), alpha-chlorohydrin [CCN], aluminium phosphide (640), antu (880), arsenous oxide (882), barium carbonate (891), bisthiosemi (912), brodifacoum (89), bromadiolone (91), bromethalin (92), calcium cyanide (444), chloralose (127), chlorophacinone (140), cholecalciferol (alternative name) (850), coumachlor (1004), coumafuryl (1005), coumatetralyl (175), crimidine (1009), difenacoum (246), difethialone (249), diphacinone (273), ergocalciferol (301), flocoumafen (357), fluoroacetamide (379), flupropadine (1183), flupropadine hydrochloride (1183), gamma-HCH (430), HCH (430), hydrogen cyanide (444), iodomethane (IUPAC name) (542), lindane (430), magnesium phosphide (IUPAC name) (640), methyl bromide (537), norbormide (1318), phosacetim (1336), phosphine (IUPAC name) (640), phosphorus [CCN], pindone (1341), potassium arsenite [CCN], pyrinuron (1371), scilliroside (1390), sodium arsenite [CCN], sodium cyanide (444), sodium fluoroacetate (735), strychnine (745), thallium sulfate [CCN], warfarin (851) and zinc phosphide (640),

a synergist selected from the group of substances consisting of 2-(2-butoxyethoxy)-ethyl piperonylate (IUPAC name) (934), 5-(1,3-benzodioxol-5-yl)-3-hexylcyclohex-2-enone (IUPAC name) (903), farnesol with nerolidol (alternative name) (324), MB-599 (development code) (498), MGK 264 (development code) (296), piperonyl butoxide (649), piprotal (1343), propyl isomer (1358), S421 (development code) (724), sesamex (1393), sesasmolin (1394) and sulfoxide (1406),

an animal repellent selected from the group of substances consisting of anthraquinone (32), chloralose (127), copper naphthenate [CCN], copper oxychloride (171), diazinon (227), dicyclopentadiene (chemical name) (1069), guazatine (422), guazatine acetates (422), methiocarb (530), pyridin-4-amine (IUPAC name) (23), thiram (804), trimethacarb (840), zinc naphthenate [CCN] and ziram (856),

a virucide selected from the group of substances consisting of imanin (alternative name) [CCN] and ribavirin (alternative name) [CCN],

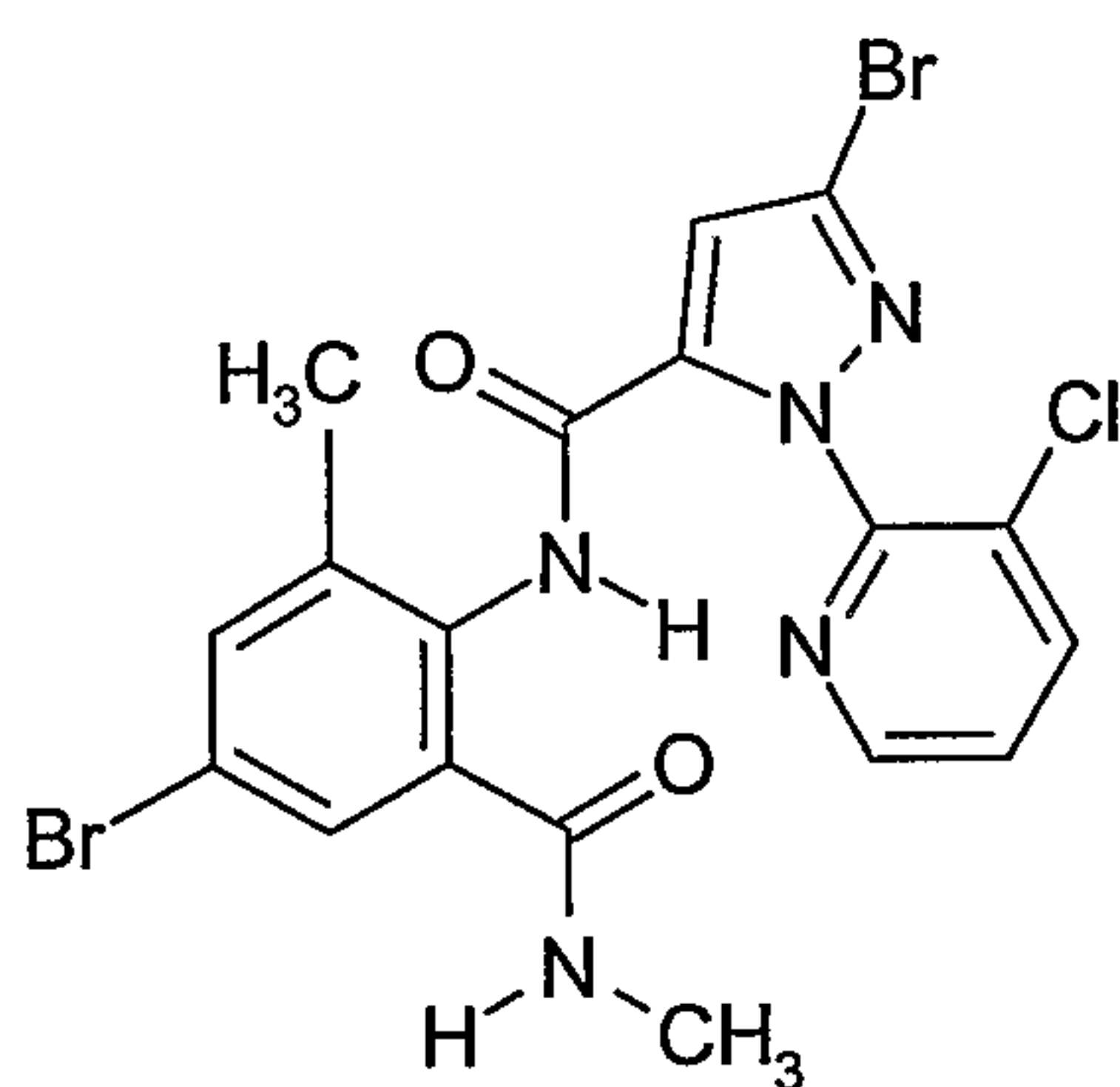
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and a wound protectant selected from the group of substances consisting of mercuric oxide (512), octhilinone (590) and thiophanate-methyl (802).

A very especially preferred embodiment of the subject-matter {1.1.3} of the invention is {1.1.3.2} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-3) and the compound (B) is a compound selected from the group of substances consisting of abamectin (1), cyromazine (209), diafenthiuron (226), diazinon (227), emamectin benzoate (291), fenoxycarb (340), fosthiazate (408), lambda-cyhalothrin (198), lufenuron (490), methidathion (529), profenofos (662), pymetrozine (688), tefluthrin (769) and thiamethoxam (792).

The compound of formula (A-3) is known, for example, from the PCT Application WO-03/015519.

A preferred embodiment of the subject-matter {1.1} of the invention is {1.1.4} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-4)



(A-4)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

An especially preferred embodiment of the subject-matter {1.1.4} of the invention is {1.1.4.1} a pesticidal composition comprising a mixture consisting of at least two substances, namely

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one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-4) and the compound (B) is a compound selected from the group of substances consisting of

an adjuvant selected from the group of substances consisting of petroleum oils (alternative name) (628),

an acaricide selected from the group of substances consisting of 1,1-bis(4-chlorophenyl)-2-ethoxyethanol (IUPAC name) (910), 2,4-dichlorophenyl benzenesulfonate (IUPAC/Chemical Abstracts name) (1059), 2-fluoro-*N*-methyl-*N*-1-naphthylacetamide (IUPAC name) (1295), 4-chlorophenyl phenyl sulfone (IUPAC name) (981), abamectin (1), acequinocyl (3), acetoprole [CCN], acrinathrin (9), aldicarb (16), aldoxycarb (863), alpha-cypermethrin (202), amidithion (870), amidoflumet [CCN], amidothioate (872), amiton (875), amiton hydrogen oxalate (875), amitraz (24), aramite (881), arsenous oxide (882), AVI 382 (compound code), AZ 60541 (compound code), azinphos-ethyl (44), azinphos-methyl (45), azobenzene (IUPAC name) (888), azocyclotin (46), azothoate (889), benomyl (62), benoxafos (alternative name) [CCN], benzoximate (71), benzyl benzoate (IUPAC name) [CCN], bifenazate (74), bifenthrin (76), binapacryl (907), brofenvalerate (alternative name), bromocyclen (918), bromophos (920), bromophos-ethyl (921), bromopropylate (94), buprofezin (99), butocarboxim (103), butoxycarboxim (104), butylpyridaben (alternative name), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbophenothion (947), CGA 50'439 (development code) (125), chinomethionat (126), chlorbenside (959), chlordimeform (964), chlordimeform hydrochloride (964), chlorfenapyr (130), chlorfenethol (968), chlorfenson (970), chlorfensulphide (971), chlorfenvinphos (131), chlorobenzilate (975), chloromebuform (977), chloromethiuron (978), chloropropylate (983), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), cinerin I (696), cinerin II (696), cinerins (696), clofentezine (158), closantel (alternative name) [CCN], coumaphos (174), crotamiton (alternative name) [CCN], crotoxyphos (1010), cufraneb (1013), cyanthoate (1020), cyhalothrin (196), cyhexatin (199), cypermethrin (201), DCPM (1032), DDT (219), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafen-thiuron (226), dialifos (1042), diazinon (227), dichlofluanid (230), dichlorvos (236), dicliphos (alternative name), dicofol (242), dicrotophos (243), dienochlor (1071), dimefox (1081), dimethoate (262), dinactin (alternative name) (653), dinex (1089), dinex-diclexine (1089), dinobuton (269), dinocap (270), dinocap-4 [CCN], dinocap-6 [CCN], dinocton (1090), dino-

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penton (1092), dinosulfon (1097), dinoterbon (1098), dioxathion (1102), diphenyl sulfone (IUPAC name) (1103), disulfiram (alternative name) [CCN], disulfoton (278), DNOC (282), dofenapyn (1113), doramectin (alternative name) [CCN], endosulfan (294), endothion (1121), EPN (297), eprinomectin (alternative name) [CCN], ethion (309), ethoate-methyl (1134), etoxazole (320), etrimfos (1142), fenazaflor (1147), fenazaquin (328), fenbutatin oxide (330), fenothiocarb (337), fenpropathrin (342), fenpyrad (alternative name), fenpyroximate (345), fenson (1157), fentrifanil (1161), fenvalerate (349), fipronil (354), fluacrypyrim (360), fluazuron (1166), flubenzimine (1167), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenoxuron (370), flumethrin (372), fluorbenside (1174), fluvalinate (1184), FMC 1137 (development code) (1185), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), gamma-HCH (430), glyodin (1205), halfenprox (424), heptenophos (432), hexadecyl cyclopropanecarboxylate (IUPAC/Chemical Abstracts name) (1216), hexythiazox (441), iodomethane (IUPAC name) (542), isocarbophos (alternative name) (473), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), lindane (430), lufenuron (490), malathion (492), malonoben (1254), mecarbam (502), mephosfolan (1261), mesulfen (alternative name) [CCN], methacrifos (1266), methamidophos (527), methidathion (529), methiocarb (530), methomyl (531), methyl bromide (537), metolcarb (550), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naled (567), NC-184 (compound code), nifluridide (1309), nikkomycins (alternative name) [CCN], nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), omethoate (594), oxamyl (602), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), parathion (615), permethrin (626), petroleum oils (alternative name) (628), phenkapton (1330), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosphamidon (639), phoxim (642), pirimiphos-methyl (652), polychloroterpenes (traditional name) (1347), polynactins (alternative name) (653), proclonol (1350), profenofos (662), promacyl (1354), propargite (671), propetamphos (673), propoxur (678), prothidathion (1360), prothoate (1362), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), quinalphos (711), quintiofos (1381), R-1492 (development code) (1382), RA-17 (development code) (1383), rotenone (722), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), sophamide (1402), spirodiclofen (738), spiromesifen

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(739), SSI-121 (development code) (1404), sulfiram (alternative name) [CCN], sulfluramid (750), sulfotep (753), sulfur (754), SZI-121 (development code) (757), tau-fluvalinate (398), tebufenpyrad (763), TEPP (1417), terbam (alternative name), tetrachlorvinphos (777), tetradifon (786), tetranactin (alternative name) (653), tetrasul (1425), thiafenox (alternative name), thiocarboxime (1431), thiofanox (800), thiometon (801), thioquinox (1436), thuringiensin (alternative name) [CCN], triamiphos (1441), triarathene (1443), triazophos (820), triazuron (alternative name), trichlorfon (824), trifenofos (1455), trinactin (alternative name) (653), vamidothion (847), vanilprole [CCN] and YI-5302 (compound code),

an algicide selected from the group of substances consisting of bethoxazin [CCN], copper dioctanoate (IUPAC name) (170), copper sulfate (172), cybutryne [CCN], dichlone (1052), dichlorophen (232), endothal (295), fentin (347), hydrated lime [CCN], nabam (566), quinoclamine (714), quinonamid (1379), simazine (730), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

an anthelmintic selected from the group of substances consisting of abamectin (1), crufomate (1011), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ivermectin (alternative name) [CCN], milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], piperazine [CCN], selamectin (alternative name) [CCN], spinosad (737) and thiophanate (1435),

an avicide selected from the group of substances consisting of chloralose (127), endrin (1122), fenthion (346), pyridin-4-amine (IUPAC name) (23) and strychnine (745),

a bactericide selected from the group of substances consisting of 1-hydroxy-1*H*-pyridine-2-thione (IUPAC name) (1222), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), 8-hydroxyquinoline sulfate (446), bronopol (97), copper dioctanoate (IUPAC name) (170), copper hydroxide (IUPAC name) (169), cresol [CCN], dichlorophen (232), dipyrithione (1105), dodicin (1112), fenaminosulf (1144), formaldehyde (404), hydrargaphen (alternative name) [CCN], kasugamycin (483), kasugamycin hydrochloride hydrate (483), nickel bis(dimethyldithiocarbamate) (IUPAC name) (1308), nitrapyrin (580), oclothilone (590), oxolinic acid (606), oxytetracycline (611), potassium hydroxyquinoline sulfate (446), probenazole (658), streptomycin (744), streptomycin sesquisulfate (744), tecloftalam (766) and thiomersal (alternative name) [CCN],

a biological agent selected from the group of substances consisting of *Adoxophyes orana* GV (alternative name) (12), *Agrobacterium radiobacter* (alternative name) (13), *Amblyseius* spp. (alternative name) (19), *Anagrapha falcifera* NPV (alternative name) (28),

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Anagrus atomus (alternative name) (29), *Aphelinus abdominalis* (alternative name) (33), *Aphidius colemani* (alternative name) (34), *Aphidoletes aphidimyza* (alternative name) (35), *Autographa californica* NPV (alternative name) (38), *Bacillus firmus* (alternative name) (48), *Bacillus sphaericus* Neide (scientific name) (49), *Bacillus thuringiensis* Berliner (scientific name) (51), *Bacillus thuringiensis* subsp. *aizawai* (scientific name) (51), *Bacillus thuringiensis* subsp. *israelensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *japonensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *kurstaki* (scientific name) (51), *Bacillus thuringiensis* subsp. *tenebrionis* (scientific name) (51), *Beauveria bassiana* (alternative name) (53), *Beauveria brongniartii* (alternative name) (54), *Chrysoperla carnea* (alternative name) (151), *Cryptolaemus montrouzieri* (alternative name) (178), *Cydia pomonella* GV (alternative name) (191), *Dacnusa sibirica* (alternative name) (212), *Diglyphus isaea* (alternative name) (254), *Encarsia formosa* (scientific name) (293), *Eretmocerus eremicus* (alternative name) (300), *Helicoverpa zea* NPV (alternative name) (431), *Heterorhabditis bacteriophora* and *H. megidis* (alternative name) (433), *Hippodamia convergens* (alternative name) (442), *Leptomastix dactylopii* (alternative name) (488), *Macrolophus caliginosus* (alternative name) (491), *Mamestra brassicae* NPV (alternative name) (494), *Metaphycus helvolus* (alternative name) (522), *Metarhizium anisopliae* var. *acridum* (scientific name) (523), *Metarhizium anisopliae* var. *anisopliae* (scientific name) (523), *Neodiprion sertifer* NPV and *N. lecontei* NPV (alternative name) (575), *Orius* spp. (alternative name) (596), *Paecilomyces fumosoroseus* (alternative name) (613), *Phytoseiulus persimilis* (alternative name) (644), *Spodoptera exigua* multicapsid nuclear polyhedrosis virus (scientific name) (741), *Steinernema bibionis* (alternative name) (742), *Steinernema carpocapsae* (alternative name) (742), *Steinernema feltiae* (alternative name) (742), *Steinernema glaseri* (alternative name) (742), *Steinernema riobrave* (alternative name) (742), *Steinernema riobravus* (alternative name) (742), *Steinernema scapterisci* (alternative name) (742), *Steinernema* spp. (alternative name) (742), *Trichogramma* spp. (alternative name) (826), *Typhlodromus occidentalis* (alternative name) (844) and *Verticillium lecanii* (alternative name) (848),

a soil sterilant selected from the group of substances consisting of iodomethane (IUPAC name) (542) and methyl bromide (537),

a chemosterilant selected from the group of substances consisting of apholate [CCN], bisazir (alternative name) [CCN], busulfan (alternative name) [CCN], diflubenzuron (250), dimatif (alternative name) [CCN], hemel [CCN], hempa [CCN], metepa [CCN], methiotepa [CCN], methyl apholate [CCN], morzid [CCN], penfluron (alternative name) [CCN], tepa

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[CCN], thiohempa (alternative name) [CCN], thiotepa (alternative name) [CCN], tretamine (alternative name) [CCN] and uredepa (alternative name) [CCN],

an insect pheromone selected from the group of substances consisting of (*E*)-dec-5-en-1-yl acetate with (*E*)-dec-5-en-1-ol (IUPAC name) (222), (*E*)-tridec-4-en-1-yl acetate (IUPAC name) (829), (*E*)-6-methylhept-2-en-4-ol (IUPAC name) (541), (*E,Z*)-tetradeca-4,10-dien-1-yl acetate (IUPAC name) (779), (*Z*)-dodec-7-en-1-yl acetate (IUPAC name) (285), (*Z*)-hexadec-11-enal (IUPAC name) (436), (*Z*)-hexadec-11-en-1-yl acetate (IUPAC name) (437), (*Z*)-hexadec-13-en-11-yn-1-yl acetate (IUPAC name) (438), (*Z*)-icos-13-en-10-one (IUPAC name) (448), (*Z*)-tetradec-7-en-1-al (IUPAC name) (782), (*Z*)-tetradec-9-en-1-ol (IUPAC name) (783), (*Z*)-tetradec-9-en-1-yl acetate (IUPAC name) (784), (*7E,9Z*)-dodeca-7,9-dien-1-yl acetate (IUPAC name) (283), (*9Z,11E*)-tetradeca-9,11-dien-1-yl acetate (IUPAC name) (780), (*9Z,12E*)-tetradeca-9,12-dien-1-yl acetate (IUPAC name) (781), 14-methyloctadec-1-ene (IUPAC name) (545), 4-methylnonan-5-ol with 4-methylnonan-5-one (IUPAC name) (544), alpha-multistriatin (alternative name) [CCN], brevicomin (alternative name) [CCN], codlelure (alternative name) [CCN], codlemone (alternative name) (167), cuelure (alternative name) (179), disparlure (277), dodec-8-en-1-yl acetate (IUPAC name) (286), dodec-9-en-1-yl acetate (IUPAC name) (287), dodeca-8,10-dien-1-yl acetate (IUPAC name) (284), dominicalure (alternative name) [CCN], ethyl 4-methyloctanoate (IUPAC name) (317), eugenol (alternative name) [CCN], frontalinal (alternative name) [CCN], gossyplure (alternative name) (420), grandlure (421), grandlure I (alternative name) (421), grandlure II (alternative name) (421), grandlure III (alternative name) (421), grandlure IV (alternative name) (421), hexalure [CCN], ipsdienol (alternative name) [CCN], ipsenol (alternative name) [CCN], japonilure (alternative name) (481), lineatin (alternative name) [CCN], litlure (alternative name) [CCN], looplure (alternative name) [CCN], medlure [CCN], megatomoic acid (alternative name) [CCN], methyl eugenol (alternative name) (540), muscalure (563), octadeca-2,13-dien-1-yl acetate (IUPAC name) (588), octadeca-3,13-dien-1-yl acetate (IUPAC name) (589), orfralure (alternative name) [CCN], oryctalure (alternative name) (317), ostramone (alternative name) [CCN], siglure [CCN], sordidin (alternative name) (736), sulcatol (alternative name) [CCN], tetradec-11-en-1-yl acetate (IUPAC name) (785), trimedlure (839), trimedlure A (alternative name) (839), trimedlure B₁ (alternative name) (839), trimedlure B₂ (alternative name) (839), trimedlure C (alternative name) (839) and trunc-call (alternative name) [CCN],

an insect repellent selected from the group of substances consisting of 2-(octylthio)-ethanol (IUPAC name) (591), butopyronoxyl (933), butoxy(polypropylene glycol) (936),

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dibutyl adipate (IUPAC name) (1046), dibutyl phthalate (1047), dibutyl succinate (IUPAC name) (1048), diethyltoluamide [CCN], dimethyl carbate [CCN], dimethyl phthalate [CCN], ethyl hexanediol (1137), hexamide [CCN], methoquin-butyl (1276), methylneodecanamide [CCN], oxamate [CCN] and picaridin [CCN],

an insecticide selected from the group of substances consisting of 1,1-dichloro-1-nitroethane (IUPAC/Chemical Abstracts name) (1058), 1,1-dichloro-2,2-bis(4-ethylphenyl)ethane (IUPAC name) (1056), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1-bromo-2-chloroethane (IUPAC/Chemical Abstracts name) (916), 2,2,2-trichloro-1-(3,4-dichlorophenyl)ethyl acetate (IUPAC name) (1451), 2,2-dichlorovinyl 2-ethylsulfinylethyl methyl phosphate (IUPAC name) (1066), 2-(1,3-dithiolan-2-yl)phenyl dimethylcarbamate (IUPAC/Chemical Abstracts name) (1109), 2-(2-butoxyethoxy)ethyl thiocyanate (IUPAC/Chemical Abstracts name) (935), 2-(4,5-dimethyl-1,3-dioxolan-2-yl)phenyl methylcarbamate (IUPAC/Chemical Abstracts name) (1084), 2-(4-chloro-3,5-xylyloxy)ethanol (IUPAC name) (986), 2-chlorovinyl diethyl phosphate (IUPAC name) (984), 2-imidazolidone (IUPAC name) (1225), 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 2-methyl(prop-2-ynyl)aminophenyl methylcarbamate (IUPAC name) (1284), 2-thiocyanatoethyl laurate (IUPAC name) (1433), 3-bromo-1-chloroprop-1-ene (IUPAC name) (917), 3-methyl-1-phenylpyrazol-5-yl dimethylcarbamate (IUPAC name) (1283), 4-methyl(prop-2-ynyl)amino-3,5-xylyl methylcarbamate (IUPAC name) (1285), 5,5-dimethyl-3-oxocyclohex-1-enyl dimethylcarbamate (IUPAC name) (1085), abamectin (1), acephate (2), acetamiprid (4), acethion (alternative name) [CCN], acetoprole [CCN], acrinathrin (9), acrylonitrile (IUPAC name) (861), alanycarb (15), aldicarb (16), aldoxycarb (863), aldrin (864), allethrin (17), allosamidin (alternative name) [CCN], allyxycarb (866), alpha-cypermethrin (202), alpha-ecdysone (alternative name) [CCN], aluminium phosphide (640), amidithion (870), amidothioate (872), aminocarb (873), amiton (875), amiton hydrogen oxalate (875), amitraz (24), anabasine (877), athidathion (883), AVI 382 (compound code), AZ 60541 (compound code), azadirachtin (alternative name) (41), azamethiphos (42), azinphos-ethyl (44), azinphos-methyl (45), azothoate (889), *Bacillus thuringiensis* delta endotoxins (alternative name) (52), barium hexafluorosilicate (alternative name) [CCN], barium polysulfide (IUPAC/Chemical Abstracts name) (892), barthrin [CCN], BAS 320 I (compound code), Bayer 22/190 (development code) (893), Bayer 22408 (development code) (894), bendiocarb (58), benfuracarb (60), bensultap (66), beta-cyfluthrin (194), beta-cypermethrin (203), bifenthrin (76), bioallethrin (78), bioallethrin S-cyclopentenyl isomer (alternative name) (79), bioethanomethrin [CCN], biopermethrin (908), bioresmethrin

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(80), bis(2-chloroethyl) ether (IUPAC name) (909), bistrifluron (83), borax (86), brofenvalerate (alternative name), bromfenvinfos (914), bromocyclen (918), bromo-DDT (alternative name) [CCN], bromophos (920), bromophos-ethyl (921), bufencarb (924), buprofezin (99), butacarb (926), butathiofos (927), butocarboxim (103), butonate (932), butoxycarboxim (104), butylpyridaben (alternative name), cadusafos (109), calcium arsenate [CCN], calcium cyanide (444), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbon disulfide (IUPAC/Chemical Abstracts name) (945), carbon tetrachloride (IUPAC name) (946), carbophenothion (947), carbosulfan (119), cartap (123), cartap hydrochloride (123), cevadine (alternative name) (725), chlorbicyclen (960), chlordane (128), chlordecone (963), chlordimeform (964), chlordimeform hydrochloride (964), chlorethoxyfos (129), chlorfenapyr (130), chlorfenvinphos (131), chlorfluazuron (132), chlormephos (136), chloroform [CCN], chloropicrin (141), chlorphoxim (989), chlorprazophos (990), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), chromafenozide (150), cinerin I (696), cinerin II (696), cinerins (696), cis-resmethrin (alternative name), cismethrin (80), clocythrin (alternative name), cloethocarb (999), closantel (alternative name) [CCN], clothianidin (165), copper acetoarsenite [CCN], copper arsenate [CCN], copper oleate [CCN], coumaphos (174), coumithoate (1006), crotamiton (alternative name) [CCN], crotoxyphos (1010), crufomate (1011), cryolite (alternative name) (177), CS 708 (development code) (1012), cyanofenphos (1019), cyanophos (184), cyanthoate (1020), cyclethrin [CCN], cycloprothrin (188), cyfluthrin (193), cyhalothrin (196), cypermethrin (201), cyphenothrin (206), cyromazine (209), cythioate (alternative name) [CCN], *d*-limonene (alternative name) [CCN], *d*-tetramethrin (alternative name) (788), DAEP (1031), dazomet (216), DDT (219), decarbofuran (1034), deltamethrin (223), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthiuron (226), dialifos (1042), diamidafos (1044), diazinon (227), dicapthon (1050), dichlofenthion (1051), dichlorvos (236), dicliphos (alternative name), dicresyl (alternative name) [CCN], dicrotophos (243), dicyclanil (244), dieldrin (1070), diethyl 5-methylpyrazol-3-yl phosphate (IUPAC name) (1076), diflubenzuron (250), dilor (alternative name) [CCN], dimefluthrin [CCN], dimefox (1081), dimetan (1085), dimethoate (262), dimethrin (1083), dimethylvinphos (265), dimetilan (1086), dinex (1089), dinex-diclexine (1089), dinoprop (1093), dinosam (1094), dinoseb (1095), dinotefuran (271), diofenolan (1099), dioxabenzofos (1100), dioxacarb (1101), dioxathion (1102), disulfoton (278), dithicrofos (1108), DNOC (282), doramectin (alternative

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name) [CCN], DSP (1115), ecdysterone (alternative name) [CCN], EI 1642 (development code) (1118), emamectin (291), emamectin benzoate (291), EMPC (1120), empenthrin (292), endosulfan (294), endothion (1121), endrin (1122), EPBP (1123), EPN (297), epofenonane (1124), eprinomectin (alternative name) [CCN], esfenvalerate (302), etaphos (alternative name) [CCN], ethiofencarb (308), ethion (309), ethiprole (310), ethoate-methyl (1134), ethoprophos (312), ethyl formate (IUPAC name) [CCN], ethyl-DDD (alternative name) (1056), ethylene dibromide (316), ethylene dichloride (chemical name) (1136), ethylene oxide [CCN], etofenprox (319), etrimfos (1142), EXD (1143), famphur (323), fenamiphos (326), fenazaflor (1147), fenchlorphos (1148), fenethacarb (1149), fenfluthrin (1150), fenitrothion (335), fenobucarb (336), fenoxacrim (1153), fenoxycarb (340), fenpirithrin (1155), fenpropathrin (342), fenpyrad (alternative name), fensulfothion (1158), fenthion (346), fenthion-ethyl [CCN], fenvalerate (349), fipronil (354), flonicamid (358), flucofuron (1168), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenerim [CCN], flufenoxuron (370), flufenprox (1171), flumethrin (372), fluvalinate (1184), FMC 1137 (development code) (1185), fonofos (1191), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), fosmethilan (1194), fospirate (1195), fosthiazate (408), fosthietan (1196), furathiocarb (412), furethrin (1200), gamma-cyhalothrin (197), gamma-HCH (430), guazatine (422), guazatine acetates (422), GY-81 (development code) (423), halfenprox (424), halofenozide (425), HCH (430), HEOD (1070), heptachlor (1211), heptenophos (432), heterophos [CCN], hexaflumuron (439), HHDN (864), hydramethylnon (443), hydrogen cyanide (444), hydroprene (445), hyquincarb (1223), imidacloprid (458), imiprothrin (460), indoxacarb (465), iodomethane (IUPAC name) (542), IPSP (1229), isazofos (1231), isobenzan (1232), isocarbophos (alternative name) (473), isodrin (1235), isofenphos (1236), isolane (1237), isoprocab (472), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), isoprothiolane (474), isothioate (1244), isoxathion (480), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), juvenile hormone I (alternative name) [CCN], juvenile hormone II (alternative name) [CCN], juvenile hormone III (alternative name) [CCN], kelevan (1249), kinoprene (484), lambda-cyhalothrin (198), lead arsenate [CCN], leptophos (1250), lindane (430), lirimfos (1251), lufenuron (490), lythidathion (1253), *m*-cumenyl methylcarbamate (IUPAC name) (1014), magnesium phosphide (IUPAC name) (640), malathion (492), malonoben (1254), mazidox (1255), mecarbam (502), mecarphon (1258), menazon (1260), mephosfolan (1261), mercurous chloride (513), mesulfenfos (1263), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methacrifos (1266),

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methamidophos (527), methanesulfonyl fluoride (IUPAC/Chemical Abstracts name) (1268), methidathion (529), methiocarb (530), methocrotophos (1273), methomyl (531), methoprene (532), methoquin-butyl (1276), methothrin (alternative name) (533), methoxychlor (534), methoxyfenozide (535), methyl bromide (537), methyl isothiocyanate (543), methylchloroform (alternative name) [CCN], methylene chloride [CCN], metofluthrin [CCN], metolcarb (550), metoxadiazone (1288), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), mirex (1294), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naftalofos (alternative name) [CCN], naled (567), naphthalene (IUPAC/Chemical Abstracts name) (1303), NC-170 (development code) (1306), NC-184 (compound code), nicotine (578), nicotine sulfate (578), nifluridide (1309), nitenpyram (579), nithiazine (1311), nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), nornicotine (traditional name) (1319), novaluron (585), noviflumuron (586), O-2,5-dichloro-4-iodophenyl O-ethyl ethylphosphonothioate (IUPAC name) (1057), O,O-diethyl O-4-methyl-2-oxo-2*H*-chromen-7-yl phosphorothioate (IUPAC name) (1074), O,O-diethyl O-6-methyl-2-propylpyrimidin-4-yl phosphorothioate (IUPAC name) (1075), O,O,O',O'-tetrapropyl dithiopyrophosphate (IUPAC name) (1424), oleic acid (IUPAC name) (593), omethoate (594), oxamyl (602), oxydemeton-methyl (609), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), para-dichlorobenzene [CCN], parathion (615), parathion-methyl (616), penfluron (alternative name) [CCN], pentachlorophenol (623), pentachlorophenyl laurate (IUPAC name) (623), permethrin (626), petroleum oils (alternative name) (628), PH 60-38 (development code) (1328), phenkapton (1330), phenothrin (630), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosnichlor (1339), phosphamidon (639), phosphine (IUPAC name) (640), phoxim (642), phoxim-methyl (1340), pirimetaphos (1344), pirimicarb (651), pirimiphos-ethyl (1345), pirimiphos-methyl (652), polychlorodicyclopentadiene isomers (IUPAC name) (1346), polychloroterpenes (traditional name) (1347), potassium arsenite [CCN], potassium thiocyanate [CCN], prallethrin (655), precocene I (alternative name) [CCN], precocene II (alternative name) [CCN], precocene III (alternative name) [CCN], primidophos (1349), profenofos (662), profluthrin [CCN], promacyl (1354), promecarb (1355), propaphos (1356), propetamphos (673), propoxur (678), prothidathion (1360), prothiofos (686), prothoate (1362), protrifenbute [CCN], pymetrozine (688), pyraclofos (689), pyrazophos (693), pyresmethrin (1367), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridalyl (700), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), pyriproxyfen

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(708), quassia (alternative name) [CCN], quinalphos (711), quinalphos-methyl (1376), quinothion (1380), quintiofos (1381), R-1492 (development code) (1382), rafoxanide (alternative name) [CCN], resmethrin (719), rotenone (722), RU 15525 (development code) (723), RU 25475 (development code) (1386), ryania (alternative name) (1387), ryanodine (traditional name) (1387), sabadilla (alternative name) (725), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), silafluofen (728), SN 72129 (development code) (1397), sodium arsenite [CCN], sodium cyanide (444), sodium fluoride (IUPAC/Chemical Abstracts name) (1399), sodium hexafluorosilicate (1400), sodium pentachlorophenoxide (623), sodium selenate (IUPAC name) (1401), sodium thiocyanate [CCN], sophamide (1402), spinosad (737), spiromesifen (739), sulcofuron (746), sulcofuron-sodium (746), sulfluramid (750), sulfotep (753), sulfuryl fluoride (756), sulprofos (1408), tar oils (alternative name) (758), tau-fluvalinate (398), tazimcarb (1412), TDE (1414), tebufenozide (762), tebufenpyrad (763), tebupirimfos (764), teflubenzuron (768), tefluthrin (769), temephos (770), TEPP (1417), terallethrin (1418), terbam (alternative name), terbufos (773), tetrachloroethane [CCN], tetrachlorvinphos (777), tetramethrin (787), theta-cypermethrin (204), thiacloprid (791), thiafenox (alternative name), thiamethoxam (792), thicrofos (1428), thiocarboxime (1431), thiocyclam (798), thiocyclam hydrogen oxalate (798), thiodicarb (799), thiofanox (800), thiometon (801), thionazin (1434), thiosultap (803), thiosultap-sodium (803), thuringiensin (alternative name) [CCN], tolfenpyrad (809), tralomethrin (812), transfluthrin (813), transpermethrin (1440), triamiphos (1441), triazamate (818), triazophos (820), triazuron (alternative name), trichlorfon (824), trichlormetaphos-3 (alternative name) [CCN], trichloronat (1452), trifenofos (1455), triflumuron (835), trimethacarb (840), triprene (1459), vamidothion (847), vaniliprole [CCN], veratridine (alternative name) (725), veratrine (alternative name) (725), XMC (853), xylylcarb (854), YI-5302 (compound code), zeta-cypermethrin (205), zetamethrin (alternative name), zinc phosphide (640), zolaprofos (1469) and ZXI 8901 (development code) (858),

a molluscicide selected from the group of substances consisting of bis(tributyltin) oxide (IUPAC name) (913), bromoacetamide [CCN], calcium arsenate [CCN], cloethocarb (999), copper acetoarsenite [CCN], copper sulfate (172), fentin (347), ferric phosphate (IUPAC name) (352), metaldehyde (518), methiocarb (530), niclosamide (576), niclosamide-olamine (576), pentachlorophenol (623), sodium pentachlorophenoxide (623), tazimcarb (1412), thiodicarb (799), tributyltin oxide (913), trifenmorph (1454), trimethacarb (840), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

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a nematicide selected from the group of substances consisting of 1,2-dibromo-3-chloropropane (IUPAC/Chemical Abstracts name) (1045), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1,3-dichloropropene (233), 3,4-dichlorotetrahydrothiophene 1,1-dioxide (IUPAC/Chemical Abstracts name) (1065), 3-(4-chlorophenyl)-5-methylrhodanine (IUPAC name) (980), 5-methyl-6-thioxo-1,3,5-thiadiazinan-3-ylacetic acid (IUPAC name) (1286), 6-isopentenylaminopurine (alternative name) (210), abamectin (1), acetoprole [CCN], alanycarb (15), aldicarb (16), aldoxycarb (863), AZ 60541 (compound code), benclothiaz [CCN], benomyl (62), butylpyridaben (alternative name), cadusafos (109), carbofuran (118), carbon disulfide (945), carbosulfan (119), chloropicrin (141), chlorpyrifos (145), cloethocarb (999), cytokinins (alternative name) (210), dazomet (216), DBCP (1045), DCIP (218), diamidafos (1044), dichlofenthion (1051), dicliphos (alternative name), dimethoate (262), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ethoprophos (312), ethylene dibromide (316), fenamiphos (326), fenpyrad (alternative name), fensulfothion (1158), fosthiazate (408), fosthietan (1196), furfural (alternative name) [CCN], GY-81 (development code) (423), heterophos [CCN], iodomethane (IUPAC name) (542), isamidofos (1230), isazofos (1231), ivermectin (alternative name) [CCN], kinetin (alternative name) (210), mecarphon (1258), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methyl bromide (537), methyl isothiocyanate (543), milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], *Myrothecium verrucaria* composition (alternative name) (565), NC-184 (compound code), oxamyl (602), phorate (636), phosphamidon (639), phosphocarb [CCN], sebufos (alternative name), selamectin (alternative name) [CCN], spinosad (737), terbam (alternative name), terbufos (773), tetrachlorothiophene (IUPAC/Chemical Abstracts name) (1422), thiafenox (alternative name), thionazin (1434), triazophos (820), triazuron (alternative name), xlenols [CCN], YI-5302 (compound code) and zeatin (alternative name) (210),

a nitrification inhibitor selected from the group of substances consisting of potassium ethylxanthate [CCN] and nitrapyrin (580),

a plant activator selected from the group of substances consisting of acibenzolar (6), acibenzolar-S-methyl (6), probenazole (658) and *Reynoutria sachalinensis* extract (alternative name) (720),

a rodenticide selected from the group of substances consisting of 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC

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name) (748), alpha-chlorohydrin [CCN], aluminium phosphide (640), antu (880), arsenous oxide (882), barium carbonate (891), bisthiosemi (912), brodifacoum (89), bromadiolone (91), bromethalin (92), calcium cyanide (444), chloralose (127), chlorophacinone (140), cholecalciferol (alternative name) (850), coumachlor (1004), coumafuryl (1005), coumatetralyl (175), crimidine (1009), difenacoum (246), difethialone (249), diphacinone (273), ergocalciferol (301), flocoumafen (357), fluoroacetamide (379), flupropadine (1183), flupropadine hydrochloride (1183), gamma-HCH (430), HCH (430), hydrogen cyanide (444), iodomethane (IUPAC name) (542), lindane (430), magnesium phosphide (IUPAC name) (640), methyl bromide (537), norbormide (1318), phosacetim (1336), phosphine (IUPAC name) (640), phosphorus [CCN], pindone (1341), potassium arsenite [CCN], pyrinuron (1371), scilliroside (1390), sodium arsenite [CCN], sodium cyanide (444), sodium fluoroacetate (735), strychnine (745), thallium sulfate [CCN], warfarin (851) and zinc phosphide (640),

a synergist selected from the group of substances consisting of 2-(2-butoxyethoxy)-ethyl piperonylate (IUPAC name) (934), 5-(1,3-benzodioxol-5-yl)-3-hexylcyclohex-2-enone (IUPAC name) (903), farnesol with nerolidol (alternative name) (324), MB-599 (development code) (498), MGK 264 (development code) (296), piperonyl butoxide (649), piprotal (1343), propyl isomer (1358), S421 (development code) (724), sesamex (1393), sesasmolin (1394) and sulfoxide (1406),

an animal repellent selected from the group of substances consisting of anthraquinone (32), chloralose (127), copper naphthenate [CCN], copper oxychloride (171), diazinon (227), dicyclopentadiene (chemical name) (1069), guazatine (422), guazatine acetates (422), methiocarb (530), pyridin-4-amine (IUPAC name) (23), thiram (804), trimethacarb (840), zinc naphthenate [CCN] and ziram (856),

a virucide selected from the group of substances consisting of imanin (alternative name) [CCN] and ribavirin (alternative name) [CCN],

and a wound protectant selected from the group of substances consisting of mercuric oxide (512), octhilinone (590) and thiophanate-methyl (802).

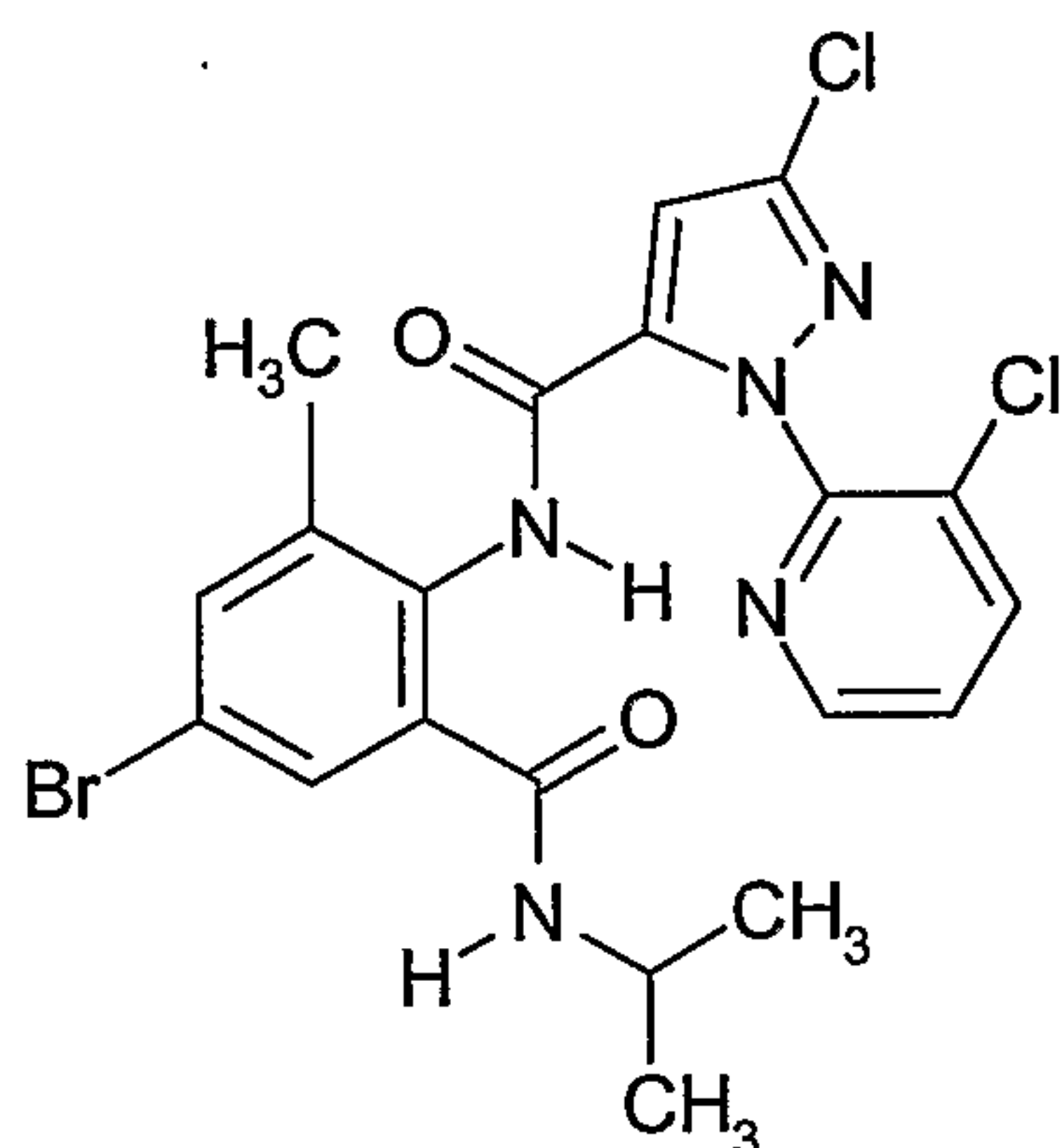
A very especially preferred embodiment of the subject-matter {1.1.4} of the invention is {1.1.4.2} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-4) and the compound (B) is a compound selected from the group of substances consisting of abamectin

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(1), cyromazine (209), diafenthiuron (226), diazinon (227), emamectin benzoate (291), fenoxycarb (340), fosthiazate (408), lambda-cyhalothrin (198), lufenuron (490), methidathion (529), profenofos (662), pymetrozine (688), tefluthrin (769) and thiamethoxam (792).

The compound of formula (A-4) is known, for example, from the PCT Application WO-03/015519.

A preferred embodiment of the subject-matter {1.1} of the invention is {1.1.5} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-5)



(A-5)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

An especially preferred embodiment of the subject-matter {1.1.5} of the invention is {1.1.5.1} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-5) and the compound (B) is a compound selected from the group of substances consisting of

an adjuvant selected from the group of substances consisting of petroleum oils (alternative name) (628),

an acaricide selected from the group of substances consisting of 1,1-bis(4-chlorophenyl)-2-ethoxyethanol (IUPAC name) (910), 2,4-dichlorophenyl benzenesulfonate

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(IUPAC/Chemical Abstracts name) (1059), 2-fluoro-*N*-methyl-*N*-1-naphthylacetamide (IUPAC name) (1295), 4-chlorophenyl phenyl sulfone (IUPAC name) (981), abamectin (1), acequinocyl (3), acetoprole [CCN], acrinathrin (9), aldicarb (16), aldoxycarb (863), alpha-cypermethrin (202), amidithion (870), amidoflumet [CCN], amidothioate (872), amiton (875), amiton hydrogen oxalate (875), amitraz (24), aramite (881), arsenous oxide (882), AVI 382 (compound code), AZ 60541 (compound code), azinphos-ethyl (44), azinphos-methyl (45), azobenzene (IUPAC name) (888), azocyclotin (46), azothoate (889), benomyl (62), benoxafos (alternative name) [CCN], benzoximate (71), benzyl benzoate (IUPAC name) [CCN], bifenazate (74), bifenthrin (76), binapacryl (907), brofenvalerate (alternative name), bromocyclen (918), bromophos (920), bromophos-ethyl (921), bromopropylate (94), buprofezin (99), butocarboxim (103), butoxycarboxim (104), butylpyridaben (alternative name), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbophenothion (947), CGA 50'439 (development code) (125), chinomethionat (126), chlorbenside (959), chlordimeform (964), chlordimeform hydrochloride (964), chlorfenapyr (130), chlorfenethol (968), chlorfenson (970), chlorfensulphide (971), chlorfenvinphos (131), chlorobenzilate (975), chloromebuform (977), chloromethiuron (978), chloropropylate (983), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), cinerin I (696), cinerin II (696), cinerins (696), clofentezine (158), closantel (alternative name) [CCN], coumaphos (174), crotamiton (alternative name) [CCN], crotoxyphos (1010), cufraneb (1013), cyanthoate (1020), cyhalothrin (196), cyhexatin (199), cypermethrin (201), DCPM (1032), DDT (219), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthion (226), dialifos (1042), diazinon (227), dichlofluanid (230), dichlorvos (236), dicliphos (alternative name), dicofol (242), dicrotophos (243), dienochlor (1071), dimefox (1081), dimethoate (262), dinactin (alternative name) (653), dinex (1089), dinex-diclexine (1089), dinobuton (269), dinocap (270), dinocap-4 [CCN], dinocap-6 [CCN], dinocton (1090), dinopenton (1092), dinosulfon (1097), dinoterbon (1098), dioxathion (1102), diphenyl sulfone (IUPAC name) (1103), disulfiram (alternative name) [CCN], disulfoton (278), DNOC (282), dofenapyn (1113), doramectin (alternative name) [CCN], endosulfan (294), endothion (1121), EPN (297), eprinomectin (alternative name) [CCN], ethion (309), ethoate-methyl (1134), etoxazole (320), etrimfos (1142), fenazaflor (1147), fenazaquin (328), fenbutatin oxide (330), fenothiocarb (337), fenpropathrin (342), fenpyrad (alternative name), fenpyroximate (345), fenson (1157), fentrifanil (1161), fenvalerate (349), fipronil (354), fluacry-

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pyrim (360), fluazuron (1166), flubenzimine (1167), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenoxuron (370), flumethrin (372), fluorbenside (1174), fluvalinate (1184), FMC 1137 (development code) (1185), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), gamma-HCH (430), glyodin (1205), halfenprox (424), heptenophos (432), hexadecyl cyclopropanecarboxylate (IUPAC/Chemical Abstracts name) (1216), hexythiazox (441), iodomethane (IUPAC name) (542), isocarbophos (alternative name) (473), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), lindane (430), lufenuron (490), malathion (492), malonoben (1254), mecarbam (502), mephosfolan (1261), mesulfen (alternative name) [CCN], methacrifos (1266), methamidophos (527), methidathion (529), methiocarb (530), methomyl (531), methyl bromide (537), metolcarb (550), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naled (567), NC-184 (compound code), nifluridide (1309), nikkomycins (alternative name) [CCN], nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), omethoate (594), oxamyl (602), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), parathion (615), permethrin (626), petroleum oils (alternative name) (628), phenkapton (1330), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosphamidon (639), phoxim (642), pirimiphos-methyl (652), polychloroterpenes (traditional name) (1347), polynactins (alternative name) (653), proclonol (1350), profenofos (662), promacyl (1354), propargite (671), propetamphos (673), propoxur (678), prothidathion (1360), prothoate (1362), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), quinalphos (711), quintiofos (1381), R-1492 (development code) (1382), RA-17 (development code) (1383), rotenone (722), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), sophamide (1402), spirodiclofen (738), spiromesifen (739), SSI-121 (development code) (1404), sulfiram (alternative name) [CCN], sulfluramid (750), sulfotep (753), sulfur (754), SZI-121 (development code) (757), tau-fluvalinate (398), tebufenpyrad (763), TEPP (1417), terbam (alternative name), tetrachlorvinphos (777), tetradifon (786), tetranactin (alternative name) (653), tetrasul (1425), thiafenox (alternative name), thiocarboxime (1431), thiofanox (800), thiometon (801), thioquinox (1436), thuringiensin (alternative name) [CCN], triamiphos (1441), triarathene (1443), triazophos

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(820), triazuron (alternative name), trichlorfon (824), trifenofos (1455), trinactin (alternative name) (653), vamidothion (847), vaniliprole [CCN] and YI-5302 (compound code),

an algicide selected from the group of substances consisting of bethoxazin [CCN], copper dioctanoate (IUPAC name) (170), copper sulfate (172), cybutryne [CCN], dichlone (1052), dichlorophen (232), endothal (295), fentin (347), hydrated lime [CCN], nabam (566), quinoclamine (714), quinonamid (1379), simazine (730), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

an anthelmintic selected from the group of substances consisting of abamectin (1), crufomate (1011), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ivermectin (alternative name) [CCN], milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], piperazine [CCN], selamectin (alternative name) [CCN], spinosad (737) and thiophanate (1435),

an avicide selected from the group of substances consisting of chloralose (127), endrin (1122), fenthion (346), pyridin-4-amine (IUPAC name) (23) and strychnine (745),

a bactericide selected from the group of substances consisting of 1-hydroxy-1*H*-pyridine-2-thione (IUPAC name) (1222), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), 8-hydroxyquinoline sulfate (446), bronopol (97), copper dioctanoate (IUPAC name) (170), copper hydroxide (IUPAC name) (169), cresol [CCN], dichlorophen (232), dipyrithione (1105), dodicin (1112), fenaminosulf (1144), formaldehyde (404), hydrargaphen (alternative name) [CCN], kasugamycin (483), kasugamycin hydrochloride hydrate (483), nickel bis(dimethyldithiocarbamate) (IUPAC name) (1308), nitrapyrin (580), octhillinone (590), oxolinic acid (606), oxytetracycline (611), potassium hydroxyquinoline sulfate (446), probenazole (658), streptomycin (744), streptomycin sesquisulfate (744), tecloftalam (766) and thiomersal (alternative name) [CCN],

a biological agent selected from the group of substances consisting of *Adoxophyes orana* GV (alternative name) (12), *Agrobacterium radiobacter* (alternative name) (13), *Amblyseius* spp. (alternative name) (19), *Anagrapha falcifera* NPV (alternative name) (28), *Anagrus atomus* (alternative name) (29), *Aphelinus abdominalis* (alternative name) (33), *Aphidius colemani* (alternative name) (34), *Aphidoletes aphidimyza* (alternative name) (35), *Autographa californica* NPV (alternative name) (38), *Bacillus firmus* (alternative name) (48), *Bacillus sphaericus* Neide (scientific name) (49), *Bacillus thuringiensis* Berliner (scientific name) (51), *Bacillus thuringiensis* subsp. *aizawai* (scientific name) (51), *Bacillus thuringiensis* subsp. *israelensis* (scientific name) (51), *Bacillus thuringiensis* subsp.

japonensis (scientific name) (51), *Bacillus thuringiensis* subsp. *kurstaki* (scientific name) (51), *Bacillus thuringiensis* subsp. *tenebrionis* (scientific name) (51), *Beauveria bassiana* (alternative name) (53), *Beauveria brongniartii* (alternative name) (54), *Chrysoperla carnea* (alternative name) (151), *Cryptolaemus montrouzieri* (alternative name) (178), *Cydia pomonella* GV (alternative name) (191), *Dacnusa sibirica* (alternative name) (212), *Diglyphus isaea* (alternative name) (254), *Encarsia formosa* (scientific name) (293), *Eretmocerus eremicus* (alternative name) (300), *Helicoverpa zea* NPV (alternative name) (431), *Heterorhabditis bacteriophora* and *H. megidis* (alternative name) (433), *Hippodamia convergens* (alternative name) (442), *Leptomastix dactylopii* (alternative name) (488), *Macrolophus caliginosus* (alternative name) (491), *Mamestra brassicae* NPV (alternative name) (494), *Metaphycus helvolus* (alternative name) (522), *Metarhizium anisopliae* var. *acridum* (scientific name) (523), *Metarhizium anisopliae* var. *anisopliae* (scientific name) (523), *Neodiprion sertifer* NPV and *N. lecontei* NPV (alternative name) (575), *Orius* spp. (alternative name) (596), *Paecilomyces fumosoroseus* (alternative name) (613), *Phytoseiulus persimilis* (alternative name) (644), *Spodoptera exigua* multicapsid nuclear polyhedrosis virus (scientific name) (741), *Steinernema bibionis* (alternative name) (742), *Steinernema carpocapsae* (alternative name) (742), *Steinernema feltiae* (alternative name) (742), *Steinernema glaseri* (alternative name) (742), *Steinernema riobrave* (alternative name) (742), *Steinernema riobravus* (alternative name) (742), *Steinernema scapterisci* (alternative name) (742), *Steinernema* spp. (alternative name) (742), *Trichogramma* spp. (alternative name) (826), *Typhlodromus occidentalis* (alternative name) (844) and *Verticillium lecanii* (alternative name) (848),

a soil sterilant selected from the group of substances consisting of iodomethane (IUPAC name) (542) and methyl bromide (537),

a chemosterilant selected from the group of substances consisting of apholate [CCN], bisazir (alternative name) [CCN], busulfan (alternative name) [CCN], diflubenzuron (250), dimatif (alternative name) [CCN], hemel [CCN], hempa [CCN], metepa [CCN], methiotepa [CCN], methyl apholate [CCN], morzid [CCN], penfluron (alternative name) [CCN], tepa [CCN], thiohempa (alternative name) [CCN], thiotepa (alternative name) [CCN], tretamine (alternative name) [CCN] and uredepa (alternative name) [CCN],

an insect pheromone selected from the group of substances consisting of (*E*)-dec-5-en-1-yl acetate with (*E*)-dec-5-en-1-ol (IUPAC name) (222), (*E*)-tridec-4-en-1-yl acetate (IUPAC name) (829), (*E*)-6-methylhept-2-en-4-ol (IUPAC name) (541), (*E,Z*)-tetradeca-4,10-dien-1-yl acetate (IUPAC name) (779), (*Z*)-dodec-7-en-1-yl acetate (IUPAC name) (285),

(Z)-hexadec-11-enal (IUPAC name) (436), (Z)-hexadec-11-en-1-yl acetate (IUPAC name) (437), (Z)-hexadec-13-en-11-yn-1-yl acetate (IUPAC name) (438), (Z)-icos-13-en-10-one (IUPAC name) (448), (Z)-tetradec-7-en-1-al (IUPAC name) (782), (Z)-tetradec-9-en-1-ol (IUPAC name) (783), (Z)-tetradec-9-en-1-yl acetate (IUPAC name) (784), (7E,9Z)-dodeca-7,9-dien-1-yl acetate (IUPAC name) (283), (9Z,11E)-tetradeca-9,11-dien-1-yl acetate (IUPAC name) (780), (9Z,12E)-tetradeca-9,12-dien-1-yl acetate (IUPAC name) (781), 14-methyloctadec-1-ene (IUPAC name) (545), 4-methylnonan-5-ol with 4-methylnonan-5-one (IUPAC name) (544), alpha-multistriatin (alternative name) [CCN], brevicomin (alternative name) [CCN], codlelure (alternative name) [CCN], codlemone (alternative name) (167), cuelure (alternative name) (179), disparlure (277), dodec-8-en-1-yl acetate (IUPAC name) (286), dodec-9-en-1-yl acetate (IUPAC name) (287), dodeca-8,10-dien-1-yl acetate (IUPAC name) (284), dominicalure (alternative name) [CCN], ethyl 4-methyloctanoate (IUPAC name) (317), eugenol (alternative name) [CCN], frontalinal (alternative name) [CCN], gossyplure (alternative name) (420), grandlure (421), grandlure I (alternative name) (421), grandlure II (alternative name) (421), grandlure III (alternative name) (421), grandlure IV (alternative name) (421), hexalure [CCN], ipsdienol (alternative name) [CCN], ipsenol (alternative name) [CCN], japonilure (alternative name) (481), lineatin (alternative name) [CCN], litlure (alternative name) [CCN], looplure (alternative name) [CCN], medlure [CCN], megatomoic acid (alternative name) [CCN], methyl eugenol (alternative name) (540), muscalure (563), octadeca-2,13-dien-1-yl acetate (IUPAC name) (588), octadeca-3,13-dien-1-yl acetate (IUPAC name) (589), orfralure (alternative name) [CCN], oryctalure (alternative name) (317), ostramone (alternative name) [CCN], siglure [CCN], sordidin (alternative name) (736), sulcatol (alternative name) [CCN], tetradec-11-en-1-yl acetate (IUPAC name) (785), trimedlure (839), trimedlure A (alternative name) (839), trimedlure B₁ (alternative name) (839), trimedlure B₂ (alternative name) (839), trimedlure C (alternative name) (839) and trunc-call (alternative name) [CCN],

an insect repellent selected from the group of substances consisting of 2-(octylthio)-ethanol (IUPAC name) (591), butopyronoxyl (933), butoxy(polypropylene glycol) (936), dibutyl adipate (IUPAC name) (1046), dibutyl phthalate (1047), dibutyl succinate (IUPAC name) (1048), diethyltoluamide [CCN], dimethyl carbate [CCN], dimethyl phthalate [CCN], ethyl hexanediol (1137), hexamide [CCN], methoquin-butyl (1276), methylneodecanamide [CCN], oxamate [CCN] and picaridin [CCN],

an insecticide selected from the group of substances consisting of 1,1-dichloro-1-nitroethane (IUPAC/Chemical Abstracts name) (1058), 1,1-dichloro-2,2-bis(4-ethylphenyl)-

ethane (IUPAC name) (1056), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1-bromo-2-chloroethane (IUPAC/Chemical Abstracts name) (916), 2,2,2-trichloro-1-(3,4-dichlorophenyl)ethyl acetate (IUPAC name) (1451), 2,2-dichlorovinyl 2-ethylsulfinylethyl methyl phosphate (IUPAC name) (1066), 2-(1,3-dithiolan-2-yl)phenyl dimethylcarbamate (IUPAC/Chemical Abstracts name) (1109), 2-(2-butoxyethoxy)ethyl thiocyanate (IUPAC/Chemical Abstracts name) (935), 2-(4,5-dimethyl-1,3-dioxolan-2-yl)phenyl methylcarbamate (IUPAC/Chemical Abstracts name) (1084), 2-(4-chloro-3,5-xylyloxy)ethanol (IUPAC name) (986), 2-chlorovinyl diethyl phosphate (IUPAC name) (984), 2-imidazolidone (IUPAC name) (1225), 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 2-methyl(prop-2-ynyl)aminophenyl methylcarbamate (IUPAC name) (1284), 2-thiocyanatoethyl laurate (IUPAC name) (1433), 3-bromo-1-chloroprop-1-ene (IUPAC name) (917), 3-methyl-1-phenylpyrazol-5-yl dimethylcarbamate (IUPAC name) (1283), 4-methyl(prop-2-ynyl)amino-3,5-xylyl methylcarbamate (IUPAC name) (1285), 5,5-dimethyl-3-oxocyclohex-1-enyl dimethylcarbamate (IUPAC name) (1085), abamectin (1), acephate (2), acetamiprid (4), acethion (alternative name) [CCN], acetoprole [CCN], acrinathrin (9), acrylonitrile (IUPAC name) (861), alanycarb (15), aldicarb (16), aldoxycarb (863), aldrin (864), allethrin (17), allosamidin (alternative name) [CCN], allyxycarb (866), alpha-cypermethrin (202), alpha-ecdysone (alternative name) [CCN], aluminium phosphide (640), amidithion (870), amidothioate (872), aminocarb (873), amiton (875), amiton hydrogen oxalate (875), amitraz (24), anabasine (877), athidathion (883), AVI 382 (compound code), AZ 60541 (compound code), azadirachtin (alternative name) (41), azamethiphos (42), azinphos-ethyl (44), azinphos-methyl (45), azothoate (889), *Bacillus thuringiensis* delta endotoxins (alternative name) (52), barium hexafluorosilicate (alternative name) [CCN], barium polysulfide (IUPAC/Chemical Abstracts name) (892), barthrin [CCN], BAS 320 I (compound code), Bayer 22/190 (development code) (893), Bayer 22408 (development code) (894), bendiocarb (58), benfuracarb (60), bensultap (66), beta-cyfluthrin (194), beta-cypermethrin (203), bifenthrin (76), bioallethrin (78), bioallethrin S-cyclopentenyl isomer (alternative name) (79), bioethanomethrin [CCN], biopermethrin (908), bioresmethrin (80), bis(2-chloroethyl) ether (IUPAC name) (909), bistrifluron (83), borax (86), brofenvalerate (alternative name), bromfenvinfos (914), bromocyclen (918), bromo-DDT (alternative name) [CCN], bromophos (920), bromophos-ethyl (921), bufencarb (924), buprofezin (99), butacarb (926), butathiofos (927), butocarboxim (103), butonate (932), butoxycarboxim (104), butylpyridaben (alternative name), cadusafos (109), calcium arsenate [CCN], calcium cyanide (444), calcium polysulfide (IUPAC name) (111), camphechlor (941),

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carbanolate (943), carbaryl (115), carbofuran (118), carbon disulfide (IUPAC/Chemical Abstracts name) (945), carbon tetrachloride (IUPAC name) (946), carbophenothion (947), carbosulfan (119), cartap (123), cartap hydrochloride (123), cevadine (alternative name) (725), chlorbicyclen (960), chlordane (128), chlordecone (963), chlordimeform (964), chlordimeform hydrochloride (964), chlorethoxyfos (129), chlorfenapyr (130), chlorfenvinphos (131), chlorfluazuron (132), chlormephos (136), chloroform [CCN], chloropicrin (141), chlorphoxim (989), chlorprazophos (990), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), chromafenozide (150), cinerin I (696), cinerin II (696), cinerins (696), cis-resmethrin (alternative name), cismethrin (80), clocythrin (alternative name), cloethocarb (999), closantel (alternative name) [CCN], clothianidin (165), copper acetoarsenite [CCN], copper arsenate [CCN], copper oleate [CCN], coumaphos (174), coumithoate (1006), crotamiton (alternative name) [CCN], crotoxyphos (1010), crufoamate (1011), cryolite (alternative name) (177), CS 708 (development code) (1012), cyanofenphos (1019), cyanophos (184), cyanthoate (1020), cyclethrin [CCN], cycloprothrin (188), cyfluthrin (193), cyhalothrin (196), cypermethrin (201), cyphenothrin (206), cyromazine (209), cythioate (alternative name) [CCN], *d*-limonene (alternative name) [CCN], *d*-tetramethrin (alternative name) (788), DAEP (1031), dazomet (216), DDT (219), decarbofuran (1034), deltamethrin (223), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthiuron (226), dialifos (1042), diamidafos (1044), diazinon (227), dicapthon (1050), dichlofenthion (1051), dichlorvos (236), dicliphos (alternative name), dicresyl (alternative name) [CCN], dicrotophos (243), dicyclanil (244), dieldrin (1070), diethyl 5-methylpyrazol-3-yl phosphate (IUPAC name) (1076), diflubenzuron (250), dilor (alternative name) [CCN], dimefluthrin [CCN], dimefox (1081), dimetan (1085), dimethoate (262), dimethrin (1083), dimethylvinphos (265), dimetilan (1086), dinex (1089), dinex-diclexine (1089), dinoprop (1093), dinosam (1094), dinoseb (1095), dinotefuran (271), diofenolan (1099), dioxabenzofos (1100), dioxacarb (1101), dioxathion (1102), disulfoton (278), dithicrofos (1108), DNOC (282), doramectin (alternative name) [CCN], DSP (1115), ecdysterone (alternative name) [CCN], EI 1642 (development code) (1118), emamectin (291), emamectin benzoate (291), EMPC (1120), empenthrin (292), endosulfan (294), endothion (1121), endrin (1122), EPBP (1123), EPN (297), epofenonane (1124), eprinomectin (alternative name) [CCN], esfenvalerate (302), etaphos (alternative name) [CCN], ethiofencarb (308), ethion (309), ethiprole (310), ethoate-methyl (1134), ethoprophos (312), ethyl formate (IUPAC name) [CCN], ethyl-DDD (alternative

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name) (1056), ethylene dibromide (316), ethylene dichloride (chemical name) (1136), ethylene oxide [CCN], etofenprox (319), etrimfos (1142), EXD (1143), famphur (323), fenamiphos (326), fenazaflor (1147), fenchlorphos (1148), fenethacarb (1149), fenfluthrin (1150), fenitrothion (335), fenobucarb (336), fenoxacrim (1153), fenoxycarb (340), fenpirithrin (1155), fenpropathrin (342), fenpyrad (alternative name), fensulfothion (1158), fenthion (346), fenthion-ethyl [CCN], fenvalerate (349), fipronil (354), flonicamid (358), flucofuron (1168), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenerim [CCN], flufenoxuron (370), flufenprox (1171), flumethrin (372), fluvalinate (1184), FMC 1137 (development code) (1185), fonofos (1191), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), fosmethilan (1194), fospirate (1195), fosthiazate (408), fosthietan (1196), furathiocarb (412), furethrin (1200), gamma-cyhalothrin (197), gamma-HCH (430), guazatine (422), guazatine acetates (422), GY-81 (development code) (423), halfenprox (424), halofenozide (425), HCH (430), HEOD (1070), heptachlor (1211), heptenophos (432), heterophos [CCN], hexaflumuron (439), HHDN (864), hydramethylnon (443), hydrogen cyanide (444), hydroprene (445), hyquincarb (1223), imidacloprid (458), imiprothrin (460), indoxacarb (465), iodomethane (IUPAC name) (542), IPSP (1229), isazofos (1231), isobenzan (1232), isocarbophos (alternative name) (473), isodrin (1235), isofenphos (1236), isolane (1237), isoprocarb (472), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), isoprothiolane (474), isothioate (1244), isoxathion (480), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), juvenile hormone I (alternative name) [CCN], juvenile hormone II (alternative name) [CCN], juvenile hormone III (alternative name) [CCN], kelevan (1249), kinoprene (484), lambda-cyhalothrin (198), lead arsenate [CCN], leptophos (1250), lindane (430), lirimfos (1251), lufenuron (490), lythidathion (1253), *m*-cumenyl methylcarbamate (IUPAC name) (1014), magnesium phosphide (IUPAC name) (640), malathion (492), malonoben (1254), mazidox (1255), mecarbam (502), mecarphon (1258), menazon (1260), mephosfolan (1261), mercurous chloride (513), mesulfenfos (1263), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methacrifos (1266), methamidophos (527), methanesulfonyl fluoride (IUPAC/Chemical Abstracts name) (1268), methidathion (529), methiocarb (530), methocrotophos (1273), methomyl (531), methoprene (532), methoquin-butyl (1276), methothrin (alternative name) (533), methoxychlor (534), methoxyfenozide (535), methyl bromide (537), methyl isothiocyanate (543), methylchloroform (alternative name) [CCN], methylene chloride [CCN], metofluthrin [CCN], metolcarb (550), metoxadiazone (1288), mevinphos (556), mexacarbate (1290), milbemectin

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(557), milbemycin oxime (alternative name) [CCN], mipafox (1293), mirex (1294), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naftalofos (alternative name) [CCN], naled (567), naphthalene (IUPAC/Chemical Abstracts name) (1303), NC-170 (development code) (1306), NC-184 (compound code), nicotine (578), nicotine sulfate (578), nifluridide (1309), nitenpyram (579), nithiazine (1311), nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), nor nicotine (traditional name) (1319), novaluron (585), noviflumuron (586), O-2,5-dichloro-4-iodophenyl O-ethyl ethylphosphonothioate (IUPAC name) (1057), O,O-diethyl O-4-methyl-2-oxo-2*H*-chromen-7-yl phosphorothioate (IUPAC name) (1074), O,O-diethyl O-6-methyl-2-propylpyrimidin-4-yl phosphorothioate (IUPAC name) (1075), O,O,O',O'-tetrapropyl dithiopyrophosphate (IUPAC name) (1424), oleic acid (IUPAC name) (593), omethoate (594), oxamyl (602), oxydemeton-methyl (609), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), para-dichlorobenzene [CCN], parathion (615), parathion-methyl (616), penfluron (alternative name) [CCN], pentachlorophenol (623), pentachlorophenyl laurate (IUPAC name) (623), permethrin (626), petroleum oils (alternative name) (628), PH 60-38 (development code) (1328), phenkapton (1330), phenothrin (630), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosnichlor (1339), phosphamidon (639), phosphine (IUPAC name) (640), phoxim (642), phoxim-methyl (1340), pirimetaphos (1344), pirimicarb (651), pirimiphos-ethyl (1345), pirimiphos-methyl (652), polychlorodicyclopentadiene isomers (IUPAC name) (1346), polychloroterpenes (traditional name) (1347), potassium arsenite [CCN], potassium thiocyanate [CCN], prallethrin (655), precocene I (alternative name) [CCN], precocene II (alternative name) [CCN], precocene III (alternative name) [CCN], primidophos (1349), profenofos (662), profluthrin [CCN], promacyl (1354), promecarb (1355), propaphos (1356), propetamphos (673), propoxur (678), prothidathion (1360), prothiofos (686), prothoate (1362), protrifenbute [CCN], pymetrozine (688), pyraclofos (689), pyrazophos (693), pyresmethrin (1367), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridalyl (700), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), pyriproxyfen (708), quassia (alternative name) [CCN], quinalphos (711), quinalphos-methyl (1376), quinothion (1380), quintiofos (1381), R-1492 (development code) (1382), rafoxanide (alternative name) [CCN], resmethrin (719), rotenone (722), RU 15525 (development code) (723), RU 25475 (development code) (1386), ryania (alternative name) (1387), ryanodine (traditional name) (1387), sabadilla (alternative name) (725), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code),

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silafluofen (728), SN 72129 (development code) (1397), sodium arsenite [CCN], sodium cyanide (444), sodium fluoride (IUPAC/Chemical Abstracts name) (1399), sodium hexafluorosilicate (1400), sodium pentachlorophenoxide (623), sodium selenate (IUPAC name) (1401), sodium thiocyanate [CCN], sophamide (1402), spinosad (737), spiromesifen (739), sulcofuron (746), sulcofuron-sodium (746), sulfluramid (750), sulfotep (753), sulfuryl fluoride (756), sulprofos (1408), tar oils (alternative name) (758), tau-fluvalinate (398), tazimcarb (1412), TDE (1414), tebufenozide (762), tebufenpyrad (763), tebupirimfos (764), teflubenzuron (768), tefluthrin (769), temephos (770), TEPP (1417), terallethrin (1418), terbam (alternative name), terbufos (773), tetrachloroethane [CCN], tetrachlorvinphos (777), tetramethrin (787), theta-cypermethrin (204), thiacloprid (791), thiafenox (alternative name), thiamethoxam (792), thicrofos (1428), thiocarboxime (1431), thiocyclam (798), thiocyclam hydrogen oxalate (798), thiodicarb (799), thiofanox (800), thiometon (801), thionazin (1434), thiosultap (803), thiosultap-sodium (803), thuringiensin (alternative name) [CCN], tolfenpyrad (809), tralomethrin (812), transfluthrin (813), transpermethrin (1440), triamiphos (1441), triazamate (818), triazophos (820), triazuron (alternative name), trichlorfon (824), trichlormetaphos-3 (alternative name) [CCN], trichloronat (1452), trifenofos (1455), triflumuron (835), trimethacarb (840), triprene (1459), vamidothion (847), vaniliprole [CCN], veratridine (alternative name) (725), veratrine (alternative name) (725), XMC (853), xylylcarb (854), YI-5302 (compound code), zeta-cypermethrin (205), zetamethrin (alternative name), zinc phosphide (640), zolaprofos (1469) and ZXI 8901 (development code) (858),

a molluscicide selected from the group of substances consisting of bis(tributyltin) oxide (IUPAC name) (913), bromoacetamide [CCN], calcium arsenate [CCN], cloethocarb (999), copper acetoarsenite [CCN], copper sulfate (172), fentin (347), ferric phosphate (IUPAC name) (352), metaldehyde (518), methiocarb (530), niclosamide (576), niclosamide-olamine (576), pentachlorophenol (623), sodium pentachlorophenoxide (623), tazimcarb (1412), thiodicarb (799), tributyltin oxide (913), trifenmorph (1454), trimethacarb (840), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

a nematicide selected from the group of substances consisting of 1,2-dibromo-3-chloropropane (IUPAC/Chemical Abstracts name) (1045), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1,3-dichloropropene (233), 3,4-dichlorotetrahydrothiophene 1,1-dioxide (IUPAC/Chemical Abstracts name) (1065), 3-(4-chlorophenyl)-5-methylrhodanine (IUPAC name) (980), 5-methyl-6-thioxo-1,3,5-thiadiazinan-3-ylacetic acid (IUPAC name) (1286), 6-isopentenylaminopurine (alternative name) (210), abamectin (1), acetoprole [CCN],

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alanycarb (15), aldicarb (16), aldoxycarb (863), AZ 60541 (compound code), benclothiaz [CCN], benomyl (62), butylpyridaben (alternative name), cadusafos (109), carbofuran (118), carbon disulfide (945), carbosulfan (119), chloropicrin (141), chlorpyrifos (145), cloethocarb (999), cytokinins (alternative name) (210), dazomet (216), DBCP (1045), DCIP (218), diamidafos (1044), dichlofenthion (1051), dicliphos (alternative name), dimethoate (262), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ethoprophos (312), ethylene dibromide (316), fenamiphos (326), fenpyrad (alternative name), fensulfothion (1158), fosthiazate (408), fosthietan (1196), furfural (alternative name) [CCN], GY-81 (development code) (423), heterophos [CCN], iodomethane (IUPAC name) (542), isamidofos (1230), isazofos (1231), ivermectin (alternative name) [CCN], kinetin (alternative name) (210), mecarphon (1258), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methyl bromide (537), methyl isothiocyanate (543), milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], *Myrothecium verrucaria* composition (alternative name) (565), NC-184 (compound code), oxamyl (602), phorate (636), phosphamidon (639), phosphocarb [CCN], sebufos (alternative name), selamectin (alternative name) [CCN], spinosad (737), terbam (alternative name), terbufos (773), tetrachlorothiophene (IUPAC/ Chemical Abstracts name) (1422), thiafenox (alternative name), thionazin (1434), triazophos (820), triazuron (alternative name), xlenols [CCN], YI-5302 (compound code) and zeatin (alternative name) (210),

a nitrification inhibitor selected from the group of substances consisting of potassium ethylxanthate [CCN] and nitrapyrin (580),

a plant activator selected from the group of substances consisting of acibenzolar (6), acibenzolar-S-methyl (6), probenazole (658) and *Reynoutria sachalinensis* extract (alternative name) (720),

a rodenticide selected from the group of substances consisting of 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), alpha-chlorohydrin [CCN], aluminium phosphide (640), antu (880), arsenous oxide (882), barium carbonate (891), bithiosemi (912), brodifacoum (89), bromadiolone (91), bromethalin (92), calcium cyanide (444), chloralose (127), chlorophacinone (140), cholecalciferol (alternative name) (850), coumachlor (1004), coumafuryl (1005), coumatetralyl (175), crimidine (1009), difenacoum (246), difethialone (249), diphacinone (273), ergocalciferol (301), flocoumafen (357), fluoroacetamide (379), flupropadine (1183), flupropadine hydrochloride (1183), gamma-HCH (430), HCH (430), hydrogen cyanide (444),

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iodomethane (IUPAC name) (542), lindane (430), magnesium phosphide (IUPAC name) (640), methyl bromide (537), norbormide (1318), phosacetim (1336), phosphine (IUPAC name) (640), phosphorus [CCN], pindone (1341), potassium arsenite [CCN], pyrinuron (1371), scilliroside (1390), sodium arsenite [CCN], sodium cyanide (444), sodium fluoroacetate (735), strychnine (745), thallium sulfate [CCN], warfarin (851) and zinc phosphide (640),

a synergist selected from the group of substances consisting of 2-(2-butoxyethoxy)-ethyl piperonylate (IUPAC name) (934), 5-(1,3-benzodioxol-5-yl)-3-hexylcyclohex-2-enone (IUPAC name) (903), farnesol with nerolidol (alternative name) (324), MB-599 (development code) (498), MGK 264 (development code) (296), piperonyl butoxide (649), piprotal (1343), propyl isomer (1358), S421 (development code) (724), sesamex (1393), sesasmolin (1394) and sulfoxide (1406),

an animal repellent selected from the group of substances consisting of anthraquinone (32), chloralose (127), copper naphthenate [CCN], copper oxychloride (171), diazinon (227), dicyclopentadiene (chemical name) (1069), guazatine (422), guazatine acetates (422), methiocarb (530), pyridin-4-amine (IUPAC name) (23), thiram (804), trimethacarb (840), zinc naphthenate [CCN] and ziram (856),

a virucide selected from the group of substances consisting of imanin (alternative name) [CCN] and ribavirin (alternative name) [CCN],

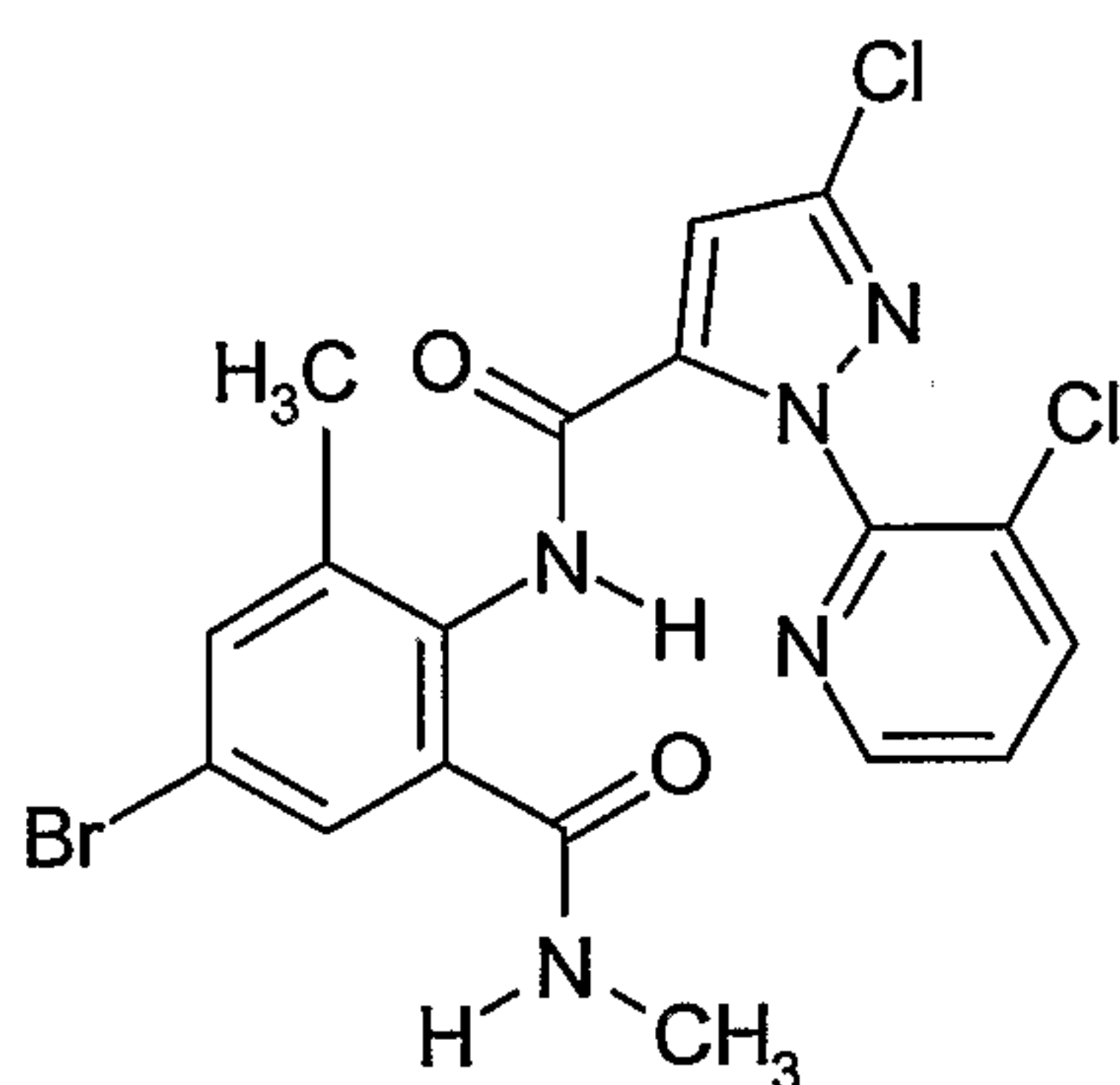
and a wound protectant selected from the group of substances consisting of mercuric oxide (512), octhilinone (590) and thiophanate-methyl (802).

A very especially preferred embodiment of the subject-matter {1.1.5} of the invention is {1.1.5.2} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-5) and the compound (B) is a compound selected from the group of substances consisting of abamectin (1), cyromazine (209), diafenthiuron (226), diazinon (227), emamectin benzoate (291), fenoxycarb (340), fosthiazate (408), lambda-cyhalothrin (198), lufenuron (490), methidathion (529), profenofos (662), pymetrozine (688), tefluthrin (769) and thiamethoxam (792).

The compound of formula (A-5) is known, for example, from the PCT Application WO-03/015519.

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A preferred embodiment of the subject-matter {1.1} of the invention is {1.1.6} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-6)



(A-6)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

An especially preferred embodiment of the subject-matter {1.1.6} of the invention is {1.1.6.1} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-6) and the compound (B) is a compound selected from the group of substances consisting of

an adjuvant selected from the group of substances consisting of petroleum oils (alternative name) (628),

an acaricide selected from the group of substances consisting of 1,1-bis(4-chlorophenyl)-2-ethoxyethanol (IUPAC name) (910), 2,4-dichlorophenyl benzenesulfonate (IUPAC/Chemical Abstracts name) (1059), 2-fluoro-*N*-methyl-*N*-1-naphthylacetamide (IUPAC name) (1295), 4-chlorophenyl phenyl sulfone (IUPAC name) (981), abamectin (1), acequinocyl (3), acetoprole [CCN], acrinathrin (9), aldicarb (16), aldoxycarb (863), alpha-cypermethrin (202), amidithion (870), amidoflumet [CCN], amidothioate (872), amiton (875), amiton hydrogen oxalate (875), amitraz (24), aramite (881), arsenous oxide (882), AVI 382 (compound code), AZ 60541 (compound code), azinphos-ethyl (44), azinphos-methyl (45), azobenzene (IUPAC name) (888), azocyclotin (46), azothoate (889), benomyl (62), benoxafos (alternative name) [CCN], benzoximate (71), benzyl benzoate (IUPAC name) [CCN],

bifenazate (74), bifenthrin (76), binapacryl (907), brofenvalerate (alternative name), bromocyclen (918), bromophos (920), bromophos-ethyl (921), bromopropylate (94), buprofezin (99), butocarboxim (103), butoxycarboxim (104), butylpyridaben (alternative name), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbophenothion (947), CGA 50'439 (development code) (125), chinomethionat (126), chlorbenside (959), chlordimeform (964), chlordimeform hydrochloride (964), chlorfenapyr (130), chlorfenethol (968), chlorfenson (970), chlorfensulphide (971), chlorfenvinphos (131), chlorobenzilate (975), chloromebuform (977), chloromethiuron (978), chloropropylate (983), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), cinerin I (696), cinerin II (696), cinerins (696), clofentezine (158), closantel (alternative name) [CCN], coumaphos (174), crotamiton (alternative name) [CCN], crotoxyphos (1010), cufraneb (1013), cyanthoate (1020), cyhalothrin (196), cyhexatin (199), cypermethrin (201), DCPM (1032), DDT (219), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthion (226), dialifos (1042), diazinon (227), dichlofluanid (230), dichlorvos (236), dicliphos (alternative name), dicofol (242), dicrotophos (243), dienochlor (1071), dimefox (1081), dimethoate (262), dinactin (alternative name) (653), dinex (1089), dinex-diclexine (1089), dinobuton (269), dinocap (270), dinocap-4 [CCN], dinocap-6 [CCN], dinocron (1090), dinopenton (1092), dinosulfon (1097), dinoterbon (1098), dioxathion (1102), diphenyl sulfone (IUPAC name) (1103), disulfiram (alternative name) [CCN], disulfoton (278), DNOC (282), dofenapyn (1113), doramectin (alternative name) [CCN], endosulfan (294), endothion (1121), EPN (297), eprinomectin (alternative name) [CCN], ethion (309), ethoate-methyl (1134), etoxazole (320), etrimfos (1142), fenazaflor (1147), fenazaquin (328), fenbutatin oxide (330), fenothiocarb (337), fenpropathrin (342), fenpyrad (alternative name), fenpyroximate (345), fenson (1157), fentrifanil (1161), fenvalerate (349), fipronil (354), fluacrypyrim (360), fluazuron (1166), flubenzimine (1167), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenoxuron (370), flumethrin (372), fluorbenside (1174), fluvalinate (1184), FMC 1137 (development code) (1185), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), gamma-HCH (430), glyodin (1205), halfenprox (424), heptenophos (432), hexadecyl cyclopropanecarboxylate (IUPAC/Chemical Abstracts name) (1216), hexythiazox (441), iodomethane (IUPAC name) (542), isocarbophos (alternative name) (473), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696),

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jodfenphos (1248), lindane (430), lufenuron (490), malathion (492), malonoben (1254), mecarbam (502), mephosfolan (1261), mesulfen (alternative name) [CCN], methacrifos (1266), methamidophos (527), methidathion (529), methiocarb (530), methomyl (531), methyl bromide (537), metolcarb (550), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naled (567), NC-184 (compound code), nifluridide (1309), nikkomycins (alternative name) [CCN], nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), omethoate (594), oxamyl (602), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), parathion (615), permethrin (626), petroleum oils (alternative name) (628), phenkapton (1330), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosphamidon (639), phoxim (642), pirimiphos-methyl (652), polychloroterpenes (traditional name) (1347), polynactins (alternative name) (653), proclonol (1350), profenofos (662), promacyl (1354), propargite (671), propetamphos (673), propoxur (678), prothidathion (1360), prothoate (1362), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), quinalphos (711), quintiofos (1381), R-1492 (development code) (1382), RA-17 (development code) (1383), rotenone (722), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), sophamide (1402), spirodiclofen (738), spiromesifen (739), SSI-121 (development code) (1404), sulfiram (alternative name) [CCN], sulfluramid (750), sulfotep (753), sulfur (754), SZI-121 (development code) (757), tau-fluvalinate (398), tebufenpyrad (763), TEPP (1417), terbam (alternative name), tetrachlorvinphos (777), tetradifon (786), tetranactin (alternative name) (653), tetrasul (1425), thiafenox (alternative name), thiocarboxime (1431), thiofanox (800), thiometon (801), thioquinox (1436), thuringiensin (alternative name) [CCN], triamiphos (1441), triarathene (1443), triazophos (820), triazuron (alternative name), trichlorfon (824), trifenofos (1455), trinactin (alternative name) (653), vamidothion (847), vaniliprole [CCN] and YI-5302 (compound code),

an algicide selected from the group of substances consisting of bethoxazin [CCN], copper dioctanoate (IUPAC name) (170), copper sulfate (172), cybutryne [CCN], dichlone (1052), dichlorophen (232), endothal (295), fentin (347), hydrated lime [CCN], nabam (566), quinoclamine (714), quinonamid (1379), simazine (730), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

an anthelmintic selected from the group of substances consisting of abamectin (1), crufomate (1011), doramectin (alternative name) [CCN], emamectin (291), emamectin

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benzoate (291), eprinomectin (alternative name) [CCN], ivermectin (alternative name) [CCN], milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], piperazine [CCN], selamectin (alternative name) [CCN], spinosad (737) and thiophanate (1435),

an avicide selected from the group of substances consisting of chloralose (127), endrin (1122), fenthion (346), pyridin-4-amine (IUPAC name) (23) and strychnine (745),

a bactericide selected from the group of substances consisting of 1-hydroxy-1*H*-pyridine-2-thione (IUPAC name) (1222), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), 8-hydroxyquinoline sulfate (446), bronopol (97), copper dioctanoate (IUPAC name) (170), copper hydroxide (IUPAC name) (169), cresol [CCN], dichlorophen (232), dipyrithione (1105), dodicin (1112), fenaminosulf (1144), formaldehyde (404), hydrargaphen (alternative name) [CCN], kasugamycin (483), kasugamycin hydrochloride hydrate (483), nickel bis(dimethyldithiocarbamate) (IUPAC name) (1308), nitrapyrin (580), octhilinone (590), oxolinic acid (606), oxytetracycline (611), potassium hydroxyquinoline sulfate (446), probenazole (658), streptomycin (744), streptomycin sesquisulfate (744), tecloftalam (766) and thiomersal (alternative name) [CCN],

a biological agent selected from the group of substances consisting of *Adoxophyes orana* GV (alternative name) (12), *Agrobacterium radiobacter* (alternative name) (13), *Amblyseius* spp. (alternative name) (19), *Anagrapha falcifera* NPV (alternative name) (28), *Anagrus atomus* (alternative name) (29), *Aphelinus abdominalis* (alternative name) (33), *Aphidius colemani* (alternative name) (34), *Aphidoletes aphidimyza* (alternative name) (35), *Autographa californica* NPV (alternative name) (38), *Bacillus firmus* (alternative name) (48), *Bacillus sphaericus* Neide (scientific name) (49), *Bacillus thuringiensis* Berliner (scientific name) (51), *Bacillus thuringiensis* subsp. *aizawai* (scientific name) (51), *Bacillus thuringiensis* subsp. *israelensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *japonensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *kurstaki* (scientific name) (51), *Bacillus thuringiensis* subsp. *tenebrionis* (scientific name) (51), *Beauveria bassiana* (alternative name) (53), *Beauveria brongniartii* (alternative name) (54), *Chrysoperla carnea* (alternative name) (151), *Cryptolaemus montrouzieri* (alternative name) (178), *Cydia pomonella* GV (alternative name) (191), *Dacnusa sibirica* (alternative name) (212), *Diglyphus isaea* (alternative name) (254), *Encarsia formosa* (scientific name) (293), *Eretmocerus eremicus* (alternative name) (300), *Helicoverpa zea* NPV (alternative name) (431), *Heterorhabditis bacteriophora* and *H. megidis* (alternative name) (433), *Hippodamia convergens* (alternative name) (442), *Leptomastix dactylopii* (alternative name) (488),

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Macrolophus caliginosus (alternative name) (491), *Mamestra brassicae* NPV (alternative name) (494), *Metaphycus helvolus* (alternative name) (522), *Metarhizium anisopliae* var. *acridum* (scientific name) (523), *Metarhizium anisopliae* var. *anisopliae* (scientific name) (523), *Neodiprion sertifer* NPV and *N. lecontei* NPV (alternative name) (575), *Orius* spp. (alternative name) (596), *Paecilomyces fumosoroseus* (alternative name) (613), *Phytoseiulus persimilis* (alternative name) (644), *Spodoptera exigua* multicapsid nuclear polyhedrosis virus (scientific name) (741), *Steinernema bibionis* (alternative name) (742), *Steinernema carpocapsae* (alternative name) (742), *Steinernema feltiae* (alternative name) (742), *Steinernema glaseri* (alternative name) (742), *Steinernema riobrave* (alternative name) (742), *Steinernema riobravus* (alternative name) (742), *Steinernema scapterisci* (alternative name) (742), *Steinernema* spp. (alternative name) (742), *Trichogramma* spp. (alternative name) (826), *Typhlodromus occidentalis* (alternative name) (844) and *Verticillium lecanii* (alternative name) (848),

a soil sterilant selected from the group of substances consisting of iodomethane (IUPAC name) (542) and methyl bromide (537),

a chemosterilant selected from the group of substances consisting of apholate [CCN], bisazir (alternative name) [CCN], busulfan (alternative name) [CCN], diflubenzuron (250), dimatif (alternative name) [CCN], hemel [CCN], hempa [CCN], metepa [CCN], methiotepa [CCN], methyl apholate [CCN], morzid [CCN], penfluron (alternative name) [CCN], tepa [CCN], thiohempa (alternative name) [CCN], thiotepa (alternative name) [CCN], tretamine (alternative name) [CCN] and uredepa (alternative name) [CCN],

an insect pheromone selected from the group of substances consisting of (*E*)-dec-5-en-1-yl acetate with (*E*)-dec-5-en-1-ol (IUPAC name) (222), (*E*)-tridec-4-en-1-yl acetate (IUPAC name) (829), (*E*)-6-methylhept-2-en-4-ol (IUPAC name) (541), (*E,Z*)-tetradeca-4,10-dien-1-yl acetate (IUPAC name) (779), (*Z*)-dodec-7-en-1-yl acetate (IUPAC name) (285), (*Z*)-hexadec-11-enal (IUPAC name) (436), (*Z*)-hexadec-11-en-1-yl acetate (IUPAC name) (437), (*Z*)-hexadec-13-en-11-yn-1-yl acetate (IUPAC name) (438), (*Z*)-icos-13-en-10-one (IUPAC name) (448), (*Z*)-tetradec-7-en-1-al (IUPAC name) (782), (*Z*)-tetradec-9-en-1-ol (IUPAC name) (783), (*Z*)-tetradec-9-en-1-yl acetate (IUPAC name) (784), (*7E,9Z*)-dodeca-7,9-dien-1-yl acetate (IUPAC name) (283), (*9Z,11E*)-tetradeca-9,11-dien-1-yl acetate (IUPAC name) (780), (*9Z,12E*)-tetradeca-9,12-dien-1-yl acetate (IUPAC name) (781), 14-methyloctadec-1-ene (IUPAC name) (545), 4-methylnonan-5-ol with 4-methylnonan-5-one (IUPAC name) (544), alpha-multistriatin (alternative name) [CCN], brevicomin (alternative name) [CCN], codlelure (alternative name) [CCN], codlemone (alternative name) (167),

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cuelure (alternative name) (179), disarlure (277), dodec-8-en-1-yl acetate (IUPAC name) (286), dodec-9-en-1-yl acetate (IUPAC name) (287), dodeca-8,10-dien-1-yl acetate (IUPAC name) (284), dominicalure (alternative name) [CCN], ethyl 4-methyloctanoate (IUPAC name) (317), eugenol (alternative name) [CCN], frontaline (alternative name) [CCN], gossyplure (alternative name) (420), grandlure (421), grandlure I (alternative name) (421), grandlure II (alternative name) (421), grandlure III (alternative name) (421), grandlure IV (alternative name) (421), hexalure [CCN], ipsdienol (alternative name) [CCN], ipsenol (alternative name) [CCN], japonilure (alternative name) (481), lineatin (alternative name) [CCN], litlure (alternative name) [CCN], looplure (alternative name) [CCN], medlure [CCN], megatomoic acid (alternative name) [CCN], methyl eugenol (alternative name) (540), muscalure (563), octadeca-2,13-dien-1-yl acetate (IUPAC name) (588), octadeca-3,13-dien-1-yl acetate (IUPAC name) (589), orfralure (alternative name) [CCN], oryctalure (alternative name) (317), ostramone (alternative name) [CCN], siglure [CCN], sordidin (alternative name) (736), sulcatol (alternative name) [CCN], tetradec-11-en-1-yl acetate (IUPAC name) (785), trimedlure (839), trimedlure A (alternative name) (839), trimedlure B₁ (alternative name) (839), trimedlure B₂ (alternative name) (839), trimedlure C (alternative name) (839) and trunc-call (alternative name) [CCN],

an insect repellent selected from the group of substances consisting of 2-(octylthio)-ethanol (IUPAC name) (591), butopyronoxyl (933), butoxy(polypropylene glycol) (936), dibutyl adipate (IUPAC name) (1046), dibutyl phthalate (1047), dibutyl succinate (IUPAC name) (1048), diethyltoluamide [CCN], dimethyl carbate [CCN], dimethyl phthalate [CCN], ethyl hexanediol (1137), hexamide [CCN], methoquin-butyl (1276), methylneodecanamide [CCN], oxamate [CCN] and picaridin [CCN],

an insecticide selected from the group of substances consisting of 1,1-dichloro-1-nitroethane (IUPAC/Chemical Abstracts name) (1058), 1,1-dichloro-2,2-bis(4-ethylphenyl)-ethane (IUPAC name) (1056), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1-bromo-2-chloroethane (IUPAC/Chemical Abstracts name) (916), 2,2,2-trichloro-1-(3,4-dichlorophenyl)ethyl acetate (IUPAC name) (1451), 2,2-dichlorovinyl 2-ethylsulfinylethyl methyl phosphate (IUPAC name) (1066), 2-(1,3-dithiolan-2-yl)phenyl dimethylcarbamate (IUPAC/Chemical Abstracts name) (1109), 2-(2-butoxyethoxy)ethyl thiocyanate (IUPAC/Chemical Abstracts name) (935), 2-(4,5-dimethyl-1,3-dioxolan-2-yl)phenyl methylcarbamate (IUPAC/Chemical Abstracts name) (1084), 2-(4-chloro-3,5-xylyloxy)ethanol (IUPAC name) (986), 2-chlorovinyl diethyl phosphate (IUPAC name) (984), 2-imidazolidone (IUPAC name) (1225),

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2-isovalerylindan-1,3-dione (IUPAC name) (1246), 2-methyl(prop-2-ynyl)aminophenyl methylcarbamate (IUPAC name) (1284), 2-thiocyanatoethyl laurate (IUPAC name) (1433), 3-bromo-1-chloroprop-1-ene (IUPAC name) (917), 3-methyl-1-phenylpyrazol-5-yl dimethylcarbamate (IUPAC name) (1283), 4-methyl(prop-2-ynyl)amino-3,5-xylyl methylcarbamate (IUPAC name) (1285), 5,5-dimethyl-3-oxocyclohex-1-enyl dimethylcarbamate (IUPAC name) (1085), abamectin (1), acephate (2), acetamiprid (4), acethion (alternative name) [CCN], acetoprole [CCN], acrinathrin (9), acrylonitrile (IUPAC name) (861), alanycarb (15), aldicarb (16), aldoxycarb (863), aldrin (864), allethrin (17), allosamidin (alternative name) [CCN], allyxycarb (866), alpha-cypermethrin (202), alpha-ecdysone (alternative name) [CCN], aluminium phosphide (640), amidithion (870), amidothioate (872), aminocarb (873), amiton (875), amiton hydrogen oxalate (875), amitraz (24), anabasine (877), athidathion (883), AVI 382 (compound code), AZ 60541 (compound code), azadirachtin (alternative name) (41), azamethiphos (42), azinphos-ethyl (44), azinphos-methyl (45), azothoate (889), *Bacillus thuringiensis* delta endotoxins (alternative name) (52), barium hexafluorosilicate (alternative name) [CCN], barium polysulfide (IUPAC/Chemical Abstracts name) (892), barthrin [CCN], BAS 320 I (compound code), Bayer 22/190 (development code) (893), Bayer 22408 (development code) (894), bendiocarb (58), benfuracarb (60), bensultap (66), beta-cyfluthrin (194), beta-cypermethrin (203), bifenthrin (76), bioallethrin (78), bioallethrin S-cyclopentenyl isomer (alternative name) (79), bioethanomethrin [CCN], biopermethrin (908), bioresmethrin (80), bis(2-chloroethyl) ether (IUPAC name) (909), bistrifluron (83), borax (86), brofenvalerate (alternative name), bromfenvinfos (914), bromocyclen (918), bromo-DDT (alternative name) [CCN], bromophos (920), bromophos-ethyl (921), bufencarb (924), buprofezin (99), butacarb (926), butathiofos (927), butocarboxim (103), butonate (932), butoxycarboxim (104), butylpyridaben (alternative name), cadusafos (109), calcium arsenate [CCN], calcium cyanide (444), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbon disulfide (IUPAC/Chemical Abstracts name) (945), carbon tetrachloride (IUPAC name) (946), carbophenothion (947), carbosulfan (119), cartap (123), cartap hydrochloride (123), cevadine (alternative name) (725), chlorbicyclen (960), chlordane (128), chlordecone (963), chlordimeform (964), chlordimeform hydrochloride (964), chlorethoxyfos (129), chlorfenapyr (130), chlorfenvinphos (131), chlorfluazuron (132), chlormephos (136), chloroform [CCN], chloropicrin (141), chlorphoxim (989), chlorprazophos (990), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), chromafenozide (150), cinerin I (696), cinerin II (696), cinerins (696), cis-resmethrin (alternative name), cismethrin (80), clocythrin (alternative

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name), cloethocarb (999), closantel (alternative name) [CCN], clothianidin (165), copper acetoarsenite [CCN], copper arsenate [CCN], copper oleate [CCN], coumaphos (174), coumithoate (1006), crotamiton (alternative name) [CCN], crotoxyphos (1010), crufomate (1011), cryolite (alternative name) (177), CS 708 (development code) (1012), cyanofenphos (1019), cyanophos (184), cyanthoate (1020), cyclethrin [CCN], cycloprothrin (188), cyfluthrin (193), cyhalothrin (196), cypermethrin (201), cyphenothrin (206), cyromazine (209), cythioate (alternative name) [CCN], *d*-limonene (alternative name) [CCN], *d*-tetramethrin (alternative name) (788), DAEP (1031), dazomet (216), DDT (219), decarbofuran (1034), deltamethrin (223), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthiuron (226), dialifos (1042), diamidafos (1044), diazinon (227), dicapthon (1050), dichlofenthion (1051), dichlorvos (236), dicliphos (alternative name), dicresyl (alternative name) [CCN], dicrotophos (243), dicyclanil (244), dieldrin (1070), diethyl 5-methylpyrazol-3-yl phosphate (IUPAC name) (1076), diflubenzuron (250), dilor (alternative name) [CCN], dimefluthrin [CCN], dimefox (1081), dimetan (1085), dimethoate (262), dimethrin (1083), dimethylvinphos (265), dimetilan (1086), dinex (1089), dinex-diclexine (1089), dinoprop (1093), dinosam (1094), dinoseb (1095), dinotefuran (271), diofenolan (1099), dioxabenzofos (1100), dioxacarb (1101), dioxathion (1102), disulfoton (278), dithicrofos (1108), DNOC (282), doramectin (alternative name) [CCN], DSP (1115), ecdysterone (alternative name) [CCN], EI 1642 (development code) (1118), emamectin (291), emamectin benzoate (291), EMPC (1120), empenthrin (292), endosulfan (294), endothion (1121), endrin (1122), EPBP (1123), EPN (297), epofenonane (1124), eprinomectin (alternative name) [CCN], esfenvalerate (302), etaphos (alternative name) [CCN], ethiofencarb (308), ethion (309), ethiprole (310), ethoate-methyl (1134), ethoprophos (312), ethyl formate (IUPAC name) [CCN], ethyl-DDD (alternative name) (1056), ethylene dibromide (316), ethylene dichloride (chemical name) (1136), ethylene oxide [CCN], etofenprox (319), etrimfos (1142), EXD (1143), famphur (323), fenamiphos (326), fenazaflor (1147), fenchlorphos (1148), fenethacarb (1149), fenfluthrin (1150), fenitrothion (335), fenobucarb (336), fenoxacrim (1153), fenoxycarb (340), fenpirithrin (1155), fenpropathrin (342), fenpyrad (alternative name), fensulfothion (1158), fenthion (346), fenthion-ethyl [CCN], fenvalerate (349), fipronil (354), flonicamid (358), flucofuron (1168), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenerim [CCN], flufenoxuron (370), flufenprox (1171), flumethrin (372), fluvalinate (1184), FMC 1137 (development code) (1185), fonofos (1191), formetanate (405), formetanate hydrochloride

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(405), formothion (1192), formparanate (1193), fosmethilan (1194), fospirate (1195), fosthiazate (408), fosthietan (1196), furathiocarb (412), furethrin (1200), gamma-cyhalothrin (197), gamma-HCH (430), guazatine (422), guazatine acetates (422), GY-81 (development code) (423), halfenprox (424), halofenozide (425), HCH (430), HEOD (1070), heptachlor (1211), heptenophos (432), heterophos [CCN], hexaflumuron (439), HHDN (864), hydramethylnon (443), hydrogen cyanide (444), hydroprene (445), hyquincarb (1223), imidacloprid (458), imiprothrin (460), indoxacarb (465), iodomethane (IUPAC name) (542), IPSP (1229), isazofos (1231), isobenzan (1232), isocarbophos (alternative name) (473), isodrin (1235), isofenphos (1236), isolane (1237), isoprocarb (472), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), isoprothiolane (474), isothioate (1244), isoxathion (480), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), juvenile hormone I (alternative name) [CCN], juvenile hormone II (alternative name) [CCN], juvenile hormone III (alternative name) [CCN], kelevan (1249), kinoprene (484), lambda-cyhalothrin (198), lead arsenate [CCN], leptophos (1250), lindane (430), lirimfos (1251), lufenuron (490), lythidathion (1253), *m*-cumenyl methylcarbamate (IUPAC name) (1014), magnesium phosphide (IUPAC name) (640), malathion (492), malonoben (1254), mazidox (1255), mecarbam (502), mecarphon (1258), menazon (1260), mephosfolan (1261), mercurous chloride (513), mesulfenfos (1263), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methacrifos (1266), methamidophos (527), methanesulfonyl fluoride (IUPAC/Chemical Abstracts name) (1268), methidathion (529), methiocarb (530), methocrotophos (1273), methomyl (531), methoprene (532), methoquin-butyl (1276), methothrin (alternative name) (533), methoxychlor (534), methoxyfenozide (535), methyl bromide (537), methyl isothiocyanate (543), methylchloroform (alternative name) [CCN], methylene chloride [CCN], metofluthrin [CCN], metolcarb (550), metoxadiazone (1288), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), mirex (1294), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naftalofos (alternative name) [CCN], naled (567), naphthalene (IUPAC/Chemical Abstracts name) (1303), NC-170 (development code) (1306), NC-184 (compound code), nicotine (578), nicotine sulfate (578), nifluridide (1309), nitenpyram (579), nithiazine (1311), nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), nornicotine (traditional name) (1319), novaluron (585), noviflumuron (586), O-2,5-dichloro-4-iodophenyl O-ethyl ethylphosphonothioate (IUPAC name) (1057), O,O-diethyl O-4-methyl-2-oxo-2*H*-chromen-7-yl phosphorothioate (IUPAC name) (1074),

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O,O-diethyl O-6-methyl-2-propylpyrimidin-4-yl phosphorothioate (IUPAC name) (1075), O,O,O',O'-tetrapropyl dithiopyrophosphate (IUPAC name) (1424), oleic acid (IUPAC name) (593), omethoate (594), oxamyl (602), oxydemeton-methyl (609), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), para-dichlorobenzene [CCN], parathion (615), parathion-methyl (616), penfluron (alternative name) [CCN], pentachlorophenol (623), pentachlorophenyl laurate (IUPAC name) (623), permethrin (626), petroleum oils (alternative name) (628), PH 60-38 (development code) (1328), phenkapton (1330), phenothrin (630), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosnichlor (1339), phosphamidon (639), phosphine (IUPAC name) (640), phoxim (642), phoxim-methyl (1340), pirimetaphos (1344), pirimicarb (651), pirimiphos-ethyl (1345), pirimiphos-methyl (652), polychlorodicyclopentadiene isomers (IUPAC name) (1346), polychloroterpenes (traditional name) (1347), potassium arsenite [CCN], potassium thiocyanate [CCN], prallethrin (655), precocene I (alternative name) [CCN], precocene II (alternative name) [CCN], precocene III (alternative name) [CCN], primidophos (1349), profenofos (662), profluthrin [CCN], promacyl (1354), promecarb (1355), propaphos (1356), propetamphos (673), propoxur (678), prothidathion (1360), prothiofos (686), prothoate (1362), protrifenbute [CCN], pymetrozine (688), pyraclofos (689), pyrazophos (693), pyresmethrin (1367), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridalyl (700), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), pyriproxyfen (708), quassia (alternative name) [CCN], quinalphos (711), quinalphos-methyl (1376), quinothion (1380), quintiofos (1381), R-1492 (development code) (1382), rafoxanide (alternative name) [CCN], resmethrin (719), rotenone (722), RU 15525 (development code) (723), RU 25475 (development code) (1386), ryania (alternative name) (1387), ryanodine (traditional name) (1387), sabadilla (alternative name) (725), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), silafluofen (728), SN 72129 (development code) (1397), sodium arsenite [CCN], sodium cyanide (444), sodium fluoride (IUPAC/Chemical Abstracts name) (1399), sodium hexafluorosilicate (1400), sodium pentachlorophenoxide (623), sodium selenate (IUPAC name) (1401), sodium thiocyanate [CCN], sophamide (1402), spinosad (737), spiromesifen (739), sulcofuron (746), sulcofuron-sodium (746), sulfluramid (750), sulfotep (753), sulfuryl fluoride (756), sulprofos (1408), tar oils (alternative name) (758), tau-fluvalinate (398), tazimcarb (1412), TDE (1414), tebufenozide (762), tebufenpyrad (763), tebupirimfos (764), teflubenzuron (768), tefluthrin (769), temephos (770), TEPP (1417), terallethrin (1418), terbam (alternative name), terbufos (773), tetrachloroethane [CCN], tetrachlorvinphos (777),

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tetramethrin (787), theta-cypermethrin (204), thiacloprid (791), thiafenox (alternative name), thiamethoxam (792), thicrofos (1428), thiocarboxime (1431), thiocyclam (798), thiocyclam hydrogen oxalate (798), thiodicarb (799), thiofanox (800), thiometon (801), thionazin (1434), thiosultap (803), thiosultap-sodium (803), thuringiensin (alternative name) [CCN], tolfenpyrad (809), tralomethrin (812), transfluthrin (813), transpermethrin (1440), triamiphos (1441), triazamate (818), triazophos (820), triazuron (alternative name), trichlorfon (824), trichlormetaphos-3 (alternative name) [CCN], trichloronat (1452), trifenofos (1455), triflumuron (835), trimethacarb (840), triprene (1459), vamidothion (847), vanilprole [CCN], veratridine (alternative name) (725), veratrine (alternative name) (725), XMC (853), xylylcarb (854), YI-5302 (compound code), zeta-cypermethrin (205), zetamethrin (alternative name), zinc phosphide (640), zolaprofos (1469) and ZXI 8901 (development code) (858),

a molluscicide selected from the group of substances consisting of bis(tributyltin) oxide (IUPAC name) (913), bromoacetamide [CCN], calcium arsenate [CCN], cloethocarb (999), copper acetoarsenite [CCN], copper sulfate (172), fentin (347), ferric phosphate (IUPAC name) (352), metaldehyde (518), methiocarb (530), niclosamide (576), niclosamide-olamine (576), pentachlorophenol (623), sodium pentachlorophenoxide (623), tazimcarb (1412), thiodicarb (799), tributyltin oxide (913), trifenmorph (1454), trimethacarb (840), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

a nematocide selected from the group of substances consisting of 1,2-dibromo-3-chloropropane (IUPAC/Chemical Abstracts name) (1045), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1,3-dichloropropene (233), 3,4-dichlorotetrahydrothiophene 1,1-dioxide (IUPAC/Chemical Abstracts name) (1065), 3-(4-chlorophenyl)-5-methylrhodanine (IUPAC name) (980), 5-methyl-6-thioxo-1,3,5-thiadiazinan-3-ylacetic acid (IUPAC name) (1286), 6-isopentenylaminopurine (alternative name) (210), abamectin (1), acetoprole [CCN], alanycarb (15), aldicarb (16), aldoxycarb (863), AZ 60541 (compound code), benclothiaz [CCN], benomyl (62), butylpyridaben (alternative name), cadusafos (109), carbofuran (118), carbon disulfide (945), carbosulfan (119), chloropicrin (141), chlorpyrifos (145), cloethocarb (999), cytokinins (alternative name) (210), dazomet (216), DBCP (1045), DCIP (218), diamidafos (1044), dichlofenthion (1051), dicliphos (alternative name), dimethoate (262), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ethoprophos (312), ethylene dibromide (316), fenamiphos (326), fenpyrad (alternative name), fensulfothion (1158), fosthiazate (408), fosthietan (1196), furfural (alternative name) [CCN], GY-81 (development code) (423),

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heterophos [CCN], iodomethane (IUPAC name) (542), isamidofos (1230), isazofos (1231), ivermectin (alternative name) [CCN], kinetin (alternative name) (210), mecarphon (1258), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methyl bromide (537), methyl isothiocyanate (543), milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], *Myrothecium verrucaria* composition (alternative name) (565), NC-184 (compound code), oxamyl (602), phorate (636), phosphamidon (639), phosphocarb [CCN], sebufos (alternative name), selamectin (alternative name) [CCN], spinosad (737), terbam (alternative name), terbufos (773), tetrachlorothiophene (IUPAC/ Chemical Abstracts name) (1422), thiafenox (alternative name), thionazin (1434), triazophos (820), triazuron (alternative name), xlenols [CCN], YI-5302 (compound code) and zeatin (alternative name) (210),

a nitrification inhibitor selected from the group of substances consisting of potassium ethylxanthate [CCN] and nitrapyrin (580),

a plant activator selected from the group of substances consisting of acibenzolar (6), acibenzolar-S-methyl (6), probenazole (658) and *Reynoutria sachalinensis* extract (alternative name) (720),

a rodenticide selected from the group of substances consisting of 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), alpha-chlorohydrin [CCN], aluminium phosphide (640), antu (880), arsenous oxide (882), barium carbonate (891), bithiosemi (912), brodifacoum (89), bromadiolone (91), bromethalin (92), calcium cyanide (444), chloralose (127), chlorophacinone (140), cholecalciferol (alternative name) (850), coumachlor (1004), coumafuryl (1005), coumatetralyl (175), crimidine (1009), difenacoum (246), difethialone (249), diphacinone (273), ergocalciferol (301), flocoumafen (357), fluoroacetamide (379), flupropadine (1183), flupropadine hydrochloride (1183), gamma-HCH (430), HCH (430), hydrogen cyanide (444), iodomethane (IUPAC name) (542), lindane (430), magnesium phosphide (IUPAC name) (640), methyl bromide (537), norbormide (1318), phosacetim (1336), phosphine (IUPAC name) (640), phosphorus [CCN], pindone (1341), potassium arsenite [CCN], pyrinuron (1371), scilliroside (1390), sodium arsenite [CCN], sodium cyanide (444), sodium fluoroacetate (735), strychnine (745), thallium sulfate [CCN], warfarin (851) and zinc phosphide (640),

a synergist selected from the group of substances consisting of 2-(2-butoxyethoxy)-ethyl piperonylate (IUPAC name) (934), 5-(1,3-benzodioxol-5-yl)-3-hexylcyclohex-2-enone (IUPAC name) (903), farnesol with nerolidol (alternative name) (324), MB-599 (development

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code) (498), MGK 264 (development code) (296), piperonyl butoxide (649), piprotal (1343), propyl isomer (1358), S421 (development code) (724), sesamex (1393), sesasmolin (1394) and sulfoxide (1406),

an animal repellent selected from the group of substances consisting of anthraquinone (32), chloralose (127), copper naphthenate [CCN], copper oxychloride (171), diazinon (227), dicyclopentadiene (chemical name) (1069), guazatine (422), guazatine acetates (422), methiocarb (530), pyridin-4-amine (IUPAC name) (23), thiram (804), trimethacarb (840), zinc naphthenate [CCN] and ziram (856),

a virucide selected from the group of substances consisting of imanin (alternative name) [CCN] and ribavirin (alternative name) [CCN],

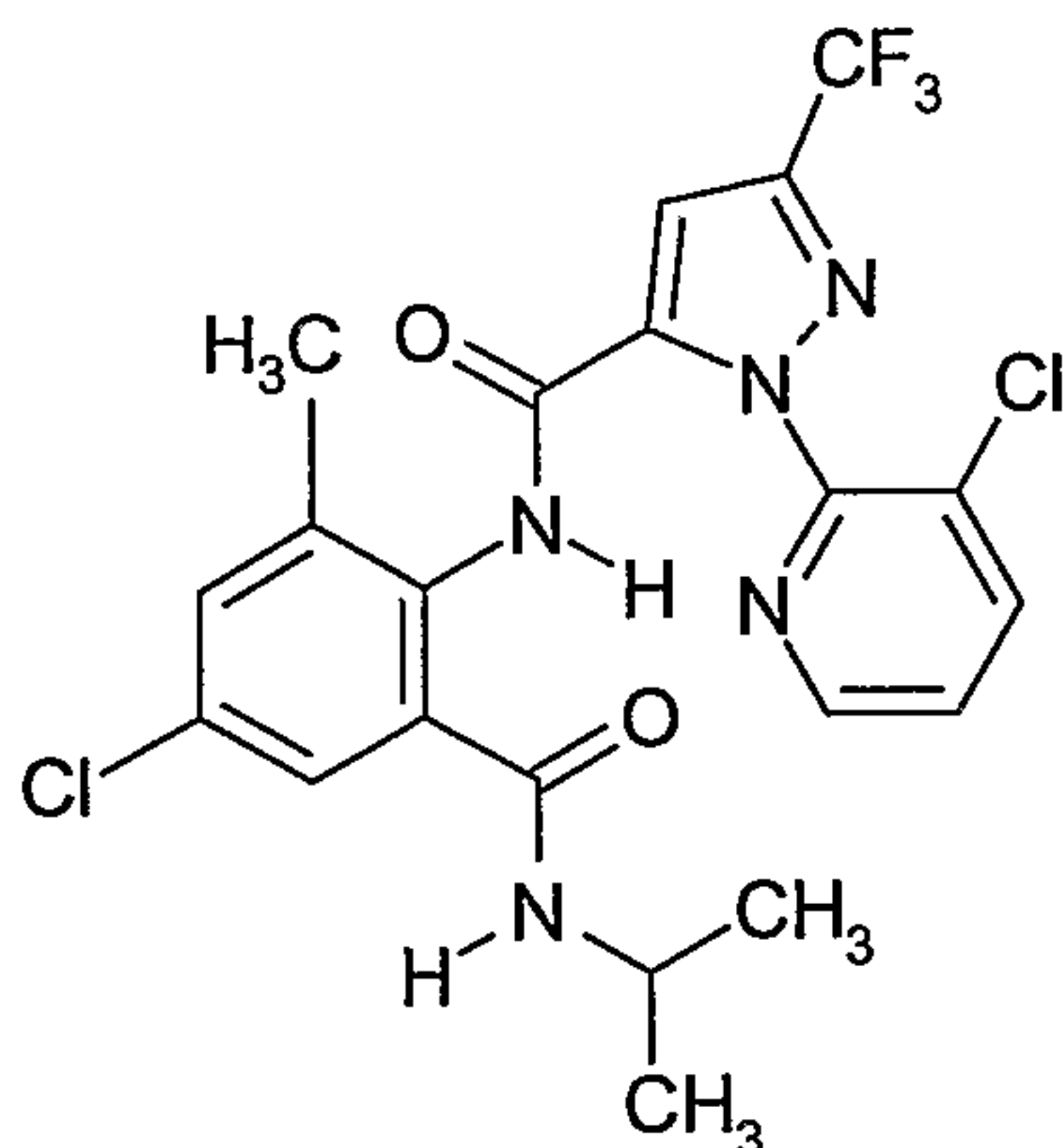
and a wound protectant selected from the group of substances consisting of mercuric oxide (512), octhilinone (590) and thiophanate-methyl (802).

A very especially preferred embodiment of the subject-matter {1.1.6} of the invention is {1.1.6.2} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-6) and the compound (B) is a compound selected from the group of substances consisting of abamectin (1), cyromazine (209), diafenthiuron (226), diazinon (227), emamectin benzoate (291), fenoxycarb (340), fosthiazate (408), lambda-cyhalothrin (198), lufenuron (490), methidathion (529), profenofos (662), pymetrozine (688), tefluthrin (769) and thiamethoxam (792).

The compound of formula (A-6) is known, for example, from the PCT Application WO-03/015519.

A preferred embodiment of the subject-matter {1.1} of the invention is {1.1.7} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-7)

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(A-7)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

An especially preferred embodiment of the subject-matter {1.1.7} of the invention is {1.1.7.1} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-7) and the compound (B) is a compound selected from the group of substances consisting of

an adjuvant selected from the group of substances consisting of petroleum oils (alternative name) (628),

an acaricide selected from the group of substances consisting of 1,1-bis(4-chlorophenyl)-2-ethoxyethanol (IUPAC name) (910), 2,4-dichlorophenyl benzenesulfonate (IUPAC/Chemical Abstracts name) (1059), 2-fluoro-*N*-methyl-*N*-1-naphthylacetamide (IUPAC name) (1295), 4-chlorophenyl phenyl sulfone (IUPAC name) (981), abamectin (1), acequinocyl (3), acetoprole [CCN], acrinathrin (9), aldicarb (16), aldoxycarb (863), alpha-cypermethrin (202), amidithion (870), amidoflumet [CCN], amidothioate (872), amiton (875), amiton hydrogen oxalate (875), amitraz (24), aramite (881), arsenous oxide (882), AVI 382 (compound code), AZ 60541 (compound code), azinphos-ethyl (44), azinphos-methyl (45), azobenzene (IUPAC name) (888), azocyclotin (46), azothoate (889), benomyl (62), benoxafos (alternative name) [CCN], benzoximate (71), benzyl benzoate (IUPAC name) [CCN], bifenazate (74), bifenthrin (76), binapacryl (907), brofenvalerate (alternative name), bromocyclen (918), bromophos (920), bromophos-ethyl (921), bromopropylate (94), buprofezin (99), butocarboxim (103), butoxycarboxim (104), butylpyridaben (alternative name), calcium

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polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbophenothion (947), CGA 50'439 (development code) (125), chino-methionat (126), chlorbenside (959), chlordimeform (964), chlordimeform hydrochloride (964), chlorfenapyr (130), chlorfenethol (968), chlorfenson (970), chlorfensulphide (971), chlorfenvinphos (131), chlorobenzilate (975), chloromebuform (977), chloromethiuron (978), chloropropylate (983), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), cinerin I (696), cinerin II (696), cinerins (696), clofentezine (158), closantel (alternative name) [CCN], coumaphos (174), crotamiton (alternative name) [CCN], crotoxyphos (1010), cufraneb (1013), cyanthoate (1020), cyhalothrin (196), cyhexatin (199), cypermethrin (201), DCPM (1032), DDT (219), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafen-thiuron (226), dialifos (1042), diazinon (227), dichlofluanid (230), dichlorvos (236), dicliphos (alternative name), dicofol (242), dicrotophos (243), dienochlor (1071), dimefox (1081), dimethoate (262), dinactin (alternative name) (653), dinex (1089), dinex-diclexine (1089), dinobuton (269), dinocap (270), dinocap-4 [CCN], dinocap-6 [CCN], dinocron (1090), dinopenton (1092), dinosulfon (1097), dinoterbon (1098), dioxathion (1102), diphenyl sulfone (IUPAC name) (1103), disulfiram (alternative name) [CCN], disulfoton (278), DNOC (282), dofenapyn (1113), doramectin (alternative name) [CCN], endosulfan (294), endothion (1121), EPN (297), eprinomectin (alternative name) [CCN], ethion (309), ethoate-methyl (1134), etoxazole (320), etrimfos (1142), fenazaflor (1147), fenazaquin (328), fenbutatin oxide (330), fenothiocarb (337), fenpropathrin (342), fenpyrad (alternative name), fenpyroximate (345), fenson (1157), fentrifanil (1161), fenvalerate (349), fipronil (354), fluacrypyrim (360), fluazuron (1166), flubenzimine (1167), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenoxuron (370), flumethrin (372), fluorbenside (1174), fluvalinate (1184), FMC 1137 (development code) (1185), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), gamma-HCH (430), glyodin (1205), halfenprox (424), heptenophos (432), hexadecyl cyclopropanecarboxylate (IUPAC/Chemical Abstracts name) (1216), hexythiazox (441), iodomethane (IUPAC name) (542), isocarbophos (alternative name) (473), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), lindane (430), lufenuron (490), malathion (492), malonoben (1254), mecarbam (502), mephosfolan (1261), mesulfen (alternative name) [CCN], methacrifos (1266), methamidophos (527), methidathion (529), methiocarb (530), methomyl (531),

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methyl bromide (537), metolcarb (550), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naled (567), NC-184 (compound code), nifluridide (1309), nikkomycins (alternative name) [CCN], nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), omethoate (594), oxamyl (602), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), parathion (615), permethrin (626), petroleum oils (alternative name) (628), phenkapton (1330), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosphamidon (639), phoxim (642), pirimiphos-methyl (652), polychloroterpenes (traditional name) (1347), polynactins (alternative name) (653), proclonol (1350), profenofos (662), promacyl (1354), propargite (671), propetamphos (673), propoxur (678), prothidathion (1360), prothoate (1362), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), quinalphos (711), quintiofos (1381), R-1492 (development code) (1382), RA-17 (development code) (1383), rotenone (722), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), sophamide (1402), spirodiclofen (738), spiromesifen (739), SSI-121 (development code) (1404), sulfiram (alternative name) [CCN], sulfluramid (750), sulfotep (753), sulfur (754), SZI-121 (development code) (757), tau-fluvalinate (398), tebufenpyrad (763), TEPP (1417), terbam (alternative name), tetrachlorvinphos (777), tetradifon (786), tetranactin (alternative name) (653), tetrasul (1425), thiafenox (alternative name), thiocarboxime (1431), thiofanox (800), thiometon (801), thioquinox (1436), thuringiensin (alternative name) [CCN], triamiphos (1441), triarathene (1443), triazophos (820), triazuron (alternative name), trichlorfon (824), trifenofos (1455), trinactin (alternative name) (653), vamidothion (847), vaniliprole [CCN] and YI-5302 (compound code),

an algicide selected from the group of substances consisting of bethoxazin [CCN], copper dioctanoate (IUPAC name) (170), copper sulfate (172), cybutryne [CCN], dichlone (1052), dichlorophen (232), endothal (295), fentin (347), hydrated lime [CCN], nabam (566), quinoclamine (714), quinonamid (1379), simazine (730), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

an anthelmintic selected from the group of substances consisting of abamectin (1), crufomate (1011), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ivermectin (alternative name) [CCN], milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN],

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piperazine [CCN], selamectin (alternative name) [CCN], spinosad (737) and thiophanate (1435),

an avicide selected from the group of substances consisting of chloralose (127), endrin (1122), fenthion (346), pyridin-4-amine (IUPAC name) (23) and strychnine (745),

a bactericide selected from the group of substances consisting of 1-hydroxy-1*H*-pyridine-2-thione (IUPAC name) (1222), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), 8-hydroxyquinoline sulfate (446), bronopol (97), copper dioctanoate (IUPAC name) (170), copper hydroxide (IUPAC name) (169), cresol [CCN], dichlorophen (232), dipyrithione (1105), dodicin (1112), fenaminosulf (1144), formaldehyde (404), hydrargaphen (alternative name) [CCN], kasugamycin (483), kasugamycin hydrochloride hydrate (483), nickel bis(dimethyldithiocarbamate) (IUPAC name) (1308), nitrapyrin (580), oclothilone (590), oxolinic acid (606), oxytetracycline (611), potassium hydroxyquinoline sulfate (446), probenazole (658), streptomycin (744), streptomycin sesquisulfate (744), tecloftalam (766) and thiomersal (alternative name) [CCN],

a biological agent selected from the group of substances consisting of *Adoxophyes orana* GV (alternative name) (12), *Agrobacterium radiobacter* (alternative name) (13), *Amblyseius* spp. (alternative name) (19), *Anagrapha falcifera* NPV (alternative name) (28), *Anagrus atomus* (alternative name) (29), *Aphelinus abdominalis* (alternative name) (33), *Aphidius colemani* (alternative name) (34), *Aphidoletes aphidimyza* (alternative name) (35), *Autographa californica* NPV (alternative name) (38), *Bacillus firmus* (alternative name) (48), *Bacillus sphaericus* Neide (scientific name) (49), *Bacillus thuringiensis* Berliner (scientific name) (51), *Bacillus thuringiensis* subsp. *aizawai* (scientific name) (51), *Bacillus thuringiensis* subsp. *israelensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *japonensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *kurstaki* (scientific name) (51), *Bacillus thuringiensis* subsp. *tenebrionis* (scientific name) (51), *Beauveria bassiana* (alternative name) (53), *Beauveria brongniartii* (alternative name) (54), *Chrysoperla carnea* (alternative name) (151), *Cryptolaemus montrouzieri* (alternative name) (178), *Cydia pomonella* GV (alternative name) (191), *Dacnusa sibirica* (alternative name) (212), *Diglyphus isaea* (alternative name) (254), *Encarsia formosa* (scientific name) (293), *Eretmocerus eremicus* (alternative name) (300), *Helicoverpa zea* NPV (alternative name) (431), *Heterorhabditis bacteriophora* and *H. megidis* (alternative name) (433), *Hippodamia convergens* (alternative name) (442), *Leptomastix dactylopii* (alternative name) (488), *Macrolophus caliginosus* (alternative name) (491), *Mamestra brassicae* NPV (alternative name) (494), *Metaphycus helvolus* (alternative name) (522), *Metarhizium anisopliae* var.

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acridum (scientific name) (523), *Metarhizium anisopliae* var. *anisopliae* (scientific name) (523), *Neodiprion sertifer* NPV and *N. lecontei* NPV (alternative name) (575), *Orius* spp. (alternative name) (596), *Paecilomyces fumosoroseus* (alternative name) (613), *Phytoseiulus persimilis* (alternative name) (644), *Spodoptera exigua* multicapsid nuclear polyhedrosis virus (scientific name) (741), *Steinernema bibionis* (alternative name) (742), *Steinernema carpocapsae* (alternative name) (742), *Steinernema feltiae* (alternative name) (742), *Steinernema glaseri* (alternative name) (742), *Steinernema riobrave* (alternative name) (742), *Steinernema riobravus* (alternative name) (742), *Steinernema scapterisci* (alternative name) (742), *Steinernema* spp. (alternative name) (742), *Trichogramma* spp. (alternative name) (826), *Typhlodromus occidentalis* (alternative name) (844) and *Verticillium lecanii* (alternative name) (848),

a soil sterilant selected from the group of substances consisting of iodomethane (IUPAC name) (542) and methyl bromide (537),

a chemosterilant selected from the group of substances consisting of apholate [CCN], bisazir (alternative name) [CCN], busulfan (alternative name) [CCN], diflubenzuron (250), dimatif (alternative name) [CCN], hemel [CCN], hempa [CCN], metepa [CCN], methiotepa [CCN], methyl apholate [CCN], morzid [CCN], penfluron (alternative name) [CCN], tepa [CCN], thiohempa (alternative name) [CCN], thiotepa (alternative name) [CCN], tretamine (alternative name) [CCN] and uredepa (alternative name) [CCN],

an insect pheromone selected from the group of substances consisting of (*E*)-dec-5-en-1-yl acetate with (*E*)-dec-5-en-1-ol (IUPAC name) (222), (*E*)-tridec-4-en-1-yl acetate (IUPAC name) (829), (*E*)-6-methylhept-2-en-4-ol (IUPAC name) (541), (*E,Z*)-tetradeca-4,10-dien-1-yl acetate (IUPAC name) (779), (*Z*)-dodec-7-en-1-yl acetate (IUPAC name) (285), (*Z*)-hexadec-11-enal (IUPAC name) (436), (*Z*)-hexadec-11-en-1-yl acetate (IUPAC name) (437), (*Z*)-hexadec-13-en-11-yn-1-yl acetate (IUPAC name) (438), (*Z*)-icos-13-en-10-one (IUPAC name) (448), (*Z*)-tetradec-7-en-1-al (IUPAC name) (782), (*Z*)-tetradec-9-en-1-ol (IUPAC name) (783), (*Z*)-tetradec-9-en-1-yl acetate (IUPAC name) (784), (*7E,9Z*)-dodeca-7,9-dien-1-yl acetate (IUPAC name) (283), (*9Z,11E*)-tetradeca-9,11-dien-1-yl acetate (IUPAC name) (780), (*9Z,12E*)-tetradeca-9,12-dien-1-yl acetate (IUPAC name) (781), 14-methyloctadec-1-ene (IUPAC name) (545), 4-methylnonan-5-ol with 4-methylnonan-5-one (IUPAC name) (544), alpha-multistriatin (alternative name) [CCN], brevicomin (alternative name) [CCN], codlelure (alternative name) [CCN], codlemone (alternative name) (167), cuelure (alternative name) (179), disparlure (277), dodec-8-en-1-yl acetate (IUPAC name) (286), dodec-9-en-1-yl acetate (IUPAC name) (287), dodeca-8,10-dien-1-yl acetate (IUPAC

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name) (284), dominicalure (alternative name) [CCN], ethyl 4-methyloctanoate (IUPAC name) (317), eugenol (alternative name) [CCN], frontaline (alternative name) [CCN], gossyplure (alternative name) (420), grandlure (421), grandlure I (alternative name) (421), grandlure II (alternative name) (421), grandlure III (alternative name) (421), grandlure IV (alternative name) (421), hexalure [CCN], ipsdienol (alternative name) [CCN], ipsenol (alternative name) [CCN], japonilure (alternative name) (481), lineatin (alternative name) [CCN], litlure (alternative name) [CCN], looplure (alternative name) [CCN], medlure [CCN], megatomoic acid (alternative name) [CCN], methyl eugenol (alternative name) (540), muscalure (563), octadeca-2,13-dien-1-yl acetate (IUPAC name) (588), octadeca-3,13-dien-1-yl acetate (IUPAC name) (589), orfralure (alternative name) [CCN], oryctalure (alternative name) (317), ostramone (alternative name) [CCN], siglure [CCN], sordidin (alternative name) (736), sulcatol (alternative name) [CCN], tetradec-11-en-1-yl acetate (IUPAC name) (785), trimedlure (839), trimedlure A (alternative name) (839), trimedlure B₁ (alternative name) (839), trimedlure B₂ (alternative name) (839), trimedlure C (alternative name) (839) and trunc-call (alternative name) [CCN],

an insect repellent selected from the group of substances consisting of 2-(octylthio)-ethanol (IUPAC name) (591), butopyronoxyl (933), butoxy(polypropylene glycol) (936), dibutyl adipate (IUPAC name) (1046), dibutyl phthalate (1047), dibutyl succinate (IUPAC name) (1048), diethyltoluamide [CCN], dimethyl carbate [CCN], dimethyl phthalate [CCN], ethyl hexanediol (1137), hexamide [CCN], methoquin-butyl (1276), methylneodecanamide [CCN], oxamate [CCN] and picaridin [CCN],

an insecticide selected from the group of substances consisting of 1,1-dichloro-1-nitroethane (IUPAC/Chemical Abstracts name) (1058), 1,1-dichloro-2,2-bis(4-ethylphenyl)-ethane (IUPAC name) (1056), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1-bromo-2-chloroethane (IUPAC/Chemical Abstracts name) (916), 2,2,2-trichloro-1-(3,4-dichlorophenyl)ethyl acetate (IUPAC name) (1451), 2,2-dichlorovinyl 2-ethylsulfinylethyl methyl phosphate (IUPAC name) (1066), 2-(1,3-dithiolan-2-yl)phenyl dimethylcarbamate (IUPAC/Chemical Abstracts name) (1109), 2-(2-butoxyethoxy)ethyl thiocyanate (IUPAC/Chemical Abstracts name) (935), 2-(4,5-dimethyl-1,3-dioxolan-2-yl)phenyl methylcarbamate (IUPAC/Chemical Abstracts name) (1084), 2-(4-chloro-3,5-xylyloxy)ethanol (IUPAC name) (986), 2-chlorovinyl diethyl phosphate (IUPAC name) (984), 2-imidazolidone (IUPAC name) (1225), 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 2-methyl(prop-2-ynyl)aminophenyl methylcarbamate (IUPAC name) (1284), 2-thiocyanatoethyl laurate (IUPAC name) (1433), 3-

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bromo-1-chloroprop-1-ene (IUPAC name) (917), 3-methyl-1-phenylpyrazol-5-yl dimethylcarbamate (IUPAC name) (1283), 4-methyl(prop-2-ynyl)amino-3,5-xylol methylcarbamate (IUPAC name) (1285), 5,5-dimethyl-3-oxocyclohex-1-enyl dimethylcarbamate (IUPAC name) (1085), abamectin (1), acephate (2), acetamiprid (4), acethion (alternative name) [CCN], acetoprole [CCN], acrinathrin (9), acrylonitrile (IUPAC name) (861), alanycarb (15), aldicarb (16), aldoxycarb (863), aldrin (864), allethrin (17), allosamidin (alternative name) [CCN], allyxycarb (866), alpha-cypermethrin (202), alpha-ecdysone (alternative name) [CCN], aluminium phosphide (640), amidithion (870), amidothioate (872), aminocarb (873), amiton (875), amiton hydrogen oxalate (875), amitraz (24), anabasine (877), athidathion (883), AVI 382 (compound code), AZ 60541 (compound code), azadirachtin (alternative name) (41), azamethiphos (42), azinphos-ethyl (44), azinphos-methyl (45), azothoate (889), *Bacillus thuringiensis* delta endotoxins (alternative name) (52), barium hexafluorosilicate (alternative name) [CCN], barium polysulfide (IUPAC/Chemical Abstracts name) (892), barthrin [CCN], BAS 320 I (compound code), Bayer 22/190 (development code) (893), Bayer 22408 (development code) (894), bendiocarb (58), benfuracarb (60), bensultap (66), beta-cyfluthrin (194), beta-cypermethrin (203), bifenthrin (76), bioallethrin (78), bioallethrin S-cyclopentenyl isomer (alternative name) (79), bioethanomethrin [CCN], biopermethrin (908), bioresmethrin (80), bis(2-chloroethyl) ether (IUPAC name) (909), bistrifluron (83), borax (86), brofenvalerate (alternative name), bromfenvinfos (914), bromocyclen (918), bromo-DDT (alternative name) [CCN], bromophos (920), bromophos-ethyl (921), bufencarb (924), buprofezin (99), butacarb (926), butathiofos (927), butocarboxim (103), butonate (932), butoxycarboxim (104), butylpyridaben (alternative name), cadusafos (109), calcium arsenate [CCN], calcium cyanide (444), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbon disulfide (IUPAC/Chemical Abstracts name) (945), carbon tetrachloride (IUPAC name) (946), carbophenothion (947), carbosulfan (119), cartap (123), cartap hydrochloride (123), cevadine (alternative name) (725), chlorbicyclen (960), chlordane (128), chlordecone (963), chlordimeform (964), chlordimeform hydrochloride (964), chlorethoxyfos (129), chlorfenapyr (130), chlorfenvinphos (131), chlorfluazuron (132), chlormephos (136), chloroform [CCN], chloropicrin (141), chlorphoxim (989), chlorprazophos (990), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), chromafenozide (150), cinerin I (696), cinerin II (696), cinerins (696), cis-resmethrin (alternative name), cismethrin (80), clocythrin (alternative name), cloethocarb (999), closantel (alternative name) [CCN], clothianidin (165), copper acetoarsenite [CCN], copper arsenate [CCN], copper oleate [CCN], coumaphos (174),

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coumithoate (1006), crotamiton (alternative name) [CCN], crotoxyphos (1010), crufomate (1011), cryolite (alternative name) (177), CS 708 (development code) (1012), cyanofenphos (1019), cyanophos (184), cyanthoate (1020), cyclethrin [CCN], cycloprothrin (188), cyfluthrin (193), cyhalothrin (196), cypermethrin (201), cyphenothrin (206), cyromazine (209), cythioate (alternative name) [CCN], *d*-limonene (alternative name) [CCN], *d*-tetramethrin (alternative name) (788), DAEP (1031), dazomet (216), DDT (219), decarbofuran (1034), deltamethrin (223), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthiuron (226), dialifos (1042), diamidafos (1044), diazinon (227), dicapthon (1050), dichlofenthion (1051), dichlorvos (236), dicliphos (alternative name), dicresyl (alternative name) [CCN], dicrotophos (243), dicyclanil (244), dieldrin (1070), diethyl 5-methylpyrazol-3-yl phosphate (IUPAC name) (1076), diflubenzuron (250), dilor (alternative name) [CCN], dimefluthrin [CCN], dimefox (1081), dimetan (1085), dimethoate (262), dimethrin (1083), dimethylvinphos (265), dimetilan (1086), dinex (1089), dinex-diclexine (1089), dinoprop (1093), dinosam (1094), dinoseb (1095), dinotefuran (271), diofenolan (1099), dioxabenzofos (1100), dioxacarb (1101), dioxathion (1102), disulfoton (278), dithicrofos (1108), DNOC (282), doramectin (alternative name) [CCN], DSP (1115), ecdysterone (alternative name) [CCN], EI 1642 (development code) (1118), emamectin (291), emamectin benzoate (291), EMPC (1120), empenthrin (292), endosulfan (294), endothion (1121), endrin (1122), EPBP (1123), EPN (297), epofenonane (1124), eprinomectin (alternative name) [CCN], esfenvalerate (302), etaphos (alternative name) [CCN], ethiofencarb (308), ethion (309), ethiprole (310), ethoate-methyl (1134), ethoprophos (312), ethyl formate (IUPAC name) [CCN], ethyl-DDD (alternative name) (1056), ethylene dibromide (316), ethylene dichloride (chemical name) (1136), ethylene oxide [CCN], etofenprox (319), etrimfos (1142), EXD (1143), famphur (323), fenamiphos (326), fenazaflor (1147), fenchlorphos (1148), fenethacarb (1149), fenfluthrin (1150), fenitrothion (335), fenobucarb (336), fenoxacrim (1153), fenoxycarb (340), fenpirithrin (1155), fenpropathrin (342), fenpyrad (alternative name), fensulfothion (1158), fenthion (346), fenthion-ethyl [CCN], fenvalerate (349), fipronil (354), flonicamid (358), flucofuron (1168), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenerim [CCN], flufenoxuron (370), flufenprox (1171), flumethrin (372), fluvalinate (1184), FMC 1137 (development code) (1185), fonofos (1191), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), fosmethilan (1194), fospirate (1195), fosthiazate (408), fosthietan (1196), furathiocarb (412), furethrin (1200), gamma-cyhalothrin

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(197), gamma-HCH (430), guazatine (422), guazatine acetates (422), GY-81 (development code) (423), halfenprox (424), halofenozide (425), HCH (430), HEOD (1070), heptachlor (1211), heptenophos (432), heterophos [CCN], hexaflumuron (439), HHDN (864), hydramethylnon (443), hydrogen cyanide (444), hydroprene (445), hyquincarb (1223), imidacloprid (458), imiprothrin (460), indoxacarb (465), iodomethane (IUPAC name) (542), IPSP (1229), isazofos (1231), isobenzan (1232), isocarbophos (alternative name) (473), isodrin (1235), isofenphos (1236), isolane (1237), isoproc carb (472), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), isoprothiolane (474), isothioate (1244), isoxathion (480), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), juvenile hormone I (alternative name) [CCN], juvenile hormone II (alternative name) [CCN], juvenile hormone III (alternative name) [CCN], kelevan (1249), kinoprene (484), lambda-cyhalothrin (198), lead arsenate [CCN], leptophos (1250), lindane (430), lirimfos (1251), lufenuron (490), lythidathion (1253), *m*-cumenyl methylcarbamate (IUPAC name) (1014), magnesium phosphide (IUPAC name) (640), malathion (492), malonoben (1254), mazidox (1255), mecarbam (502), mecarphon (1258), menazon (1260), mephosfolan (1261), mercurous chloride (513), mesulfenfos (1263), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methacrifos (1266), methamidophos (527), methanesulfonyl fluoride (IUPAC/Chemical Abstracts name) (1268), methidathion (529), methiocarb (530), methocrotophos (1273), methomyl (531), methoprene (532), methoquin-butyl (1276), methothrin (alternative name) (533), methoxychlor (534), methoxyfenozide (535), methyl bromide (537), methyl isothiocyanate (543), methylchloroform (alternative name) [CCN], methylene chloride [CCN], metofluthrin [CCN], metolcarb (550), metoxadiazone (1288), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), mirex (1294), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naftalofos (alternative name) [CCN], naled (567), naphthalene (IUPAC/Chemical Abstracts name) (1303), NC-170 (development code) (1306), NC-184 (compound code), nicotine (578), nicotine sulfate (578), nifluridide (1309), nitenpyram (579), nithiazine (1311), nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), nornicotine (traditional name) (1319), novaluron (585), noviflumuron (586), O-2,5-dichloro-4-iodophenyl O-ethyl ethylphosphonothioate (IUPAC name) (1057), O,O-diethyl O-4-methyl-2-oxo-2*H*-chromen-7-yl phosphorothioate (IUPAC name) (1074), O,O-diethyl O-6-methyl-2-propylpyrimidin-4-yl phosphorothioate (IUPAC name) (1075), O,O,O',O'-tetrapropyl dithiopyrophosphate (IUPAC name) (1424), oleic acid (IUPAC name)

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(593), omethoate (594), oxamyl (602), oxydemeton-methyl (609), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), para-dichlorobenzene [CCN], parathion (615), parathion-methyl (616), penfluron (alternative name) [CCN], pentachlorophenol (623), pentachlorophenyl laurate (IUPAC name) (623), permethrin (626), petroleum oils (alternative name) (628), PH 60-38 (development code) (1328), phenkapton (1330), phenothrin (630), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosnichlor (1339), phosphamidon (639), phosphine (IUPAC name) (640), phoxim (642), phoxim-methyl (1340), pirimetaphos (1344), pirimicarb (651), pirimiphos-ethyl (1345), pirimiphos-methyl (652), polychlorodicyclopentadiene isomers (IUPAC name) (1346), polychloroterpenes (traditional name) (1347), potassium arsenite [CCN], potassium thiocyanate [CCN], prallethrin (655), precocene I (alternative name) [CCN], precocene II (alternative name) [CCN], precocene III (alternative name) [CCN], primidophos (1349), profenofos (662), profluthrin [CCN], promacyl (1354), promecarb (1355), propaphos (1356), propetamphos (673), propoxur (678), prothidathion (1360), prothiofos (686), prothoate (1362), protrifenbute [CCN], pymetrozine (688), pyraclofos (689), pyrazophos (693), pyresmethrin (1367), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridalyl (700), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), pyriproxyfen (708), quassia (alternative name) [CCN], quinalphos (711), quinalphos-methyl (1376), quinothion (1380), quintiofos (1381), R-1492 (development code) (1382), rafoxanide (alternative name) [CCN], resmethrin (719), rotenone (722), RU 15525 (development code) (723), RU 25475 (development code) (1386), ryania (alternative name) (1387), ryanodine (traditional name) (1387), sabadilla (alternative name) (725), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), silafluofen (728), SN 72129 (development code) (1397), sodium arsenite [CCN], sodium cyanide (444), sodium fluoride (IUPAC/Chemical Abstracts name) (1399), sodium hexafluorosilicate (1400), sodium pentachlorophenoxide (623), sodium selenate (IUPAC name) (1401), sodium thiocyanate [CCN], sophamide (1402), spinosad (737), spiromesifen (739), sulcofuron (746), sulcofuron-sodium (746), sulfluramid (750), sulfotep (753), sulfuryl fluoride (756), sulprofos (1408), tar oils (alternative name) (758), tau-fluvalinate (398), tazimcarb (1412), TDE (1414), tebufenozide (762), tebufenpyrad (763), tebupirimfos (764), teflubenzuron (768), tefluthrin (769), temephos (770), TEPP (1417), terallethrin (1418), terbam (alternative name), terbufos (773), tetrachloroethane [CCN], tetrachlorvinphos (777), tetramethrin (787), theta-cypermethrin (204), thiacloprid (791), thiafenox (alternative name), thiamethoxam (792), thicrofos (1428), thiocarboxime (1431), thiocyclam (798), thiocyclam

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hydrogen oxalate (798), thiodicarb (799), thiofanox (800), thiometon (801), thionazin (1434), thiosultap (803), thiosultap-sodium (803), thuringiensin (alternative name) [CCN], tolfenpyrad (809), tralomethrin (812), transfluthrin (813), transpermethrin (1440), triamiphos (1441), triazamate (818), triazophos (820), triazuron (alternative name), trichlorfon (824), trichlormetaphos-3 (alternative name) [CCN], trichloronat (1452), trifenofos (1455), triflumuron (835), trimethacarb (840), triprene (1459), vamidothion (847), vaniliprole [CCN], veratridine (alternative name) (725), veratrine (alternative name) (725), XMC (853), xylylcarb (854), YI-5302 (compound code), zeta-cypermethrin (205), zetamethrin (alternative name), zinc phosphide (640), zolaprofos (1469) and ZXI 8901 (development code) (858),

a molluscicide selected from the group of substances consisting of bis(tributyltin) oxide (IUPAC name) (913), bromoacetamide [CCN], calcium arsenate [CCN], cloethocarb (999), copper acetoarsenite [CCN], copper sulfate (172), fentin (347), ferric phosphate (IUPAC name) (352), metaldehyde (518), methiocarb (530), niclosamide (576), niclosamide-olamine (576), pentachlorophenol (623), sodium pentachlorophenoxide (623), tazimcarb (1412), thiodicarb (799), tributyltin oxide (913), trifenmorph (1454), trimethacarb (840), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

a nematicide selected from the group of substances consisting of 1,2-dibromo-3-chloropropane (IUPAC/Chemical Abstracts name) (1045), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1,3-dichloropropene (233), 3,4-dichlorotetrahydrothiophene 1,1-dioxide (IUPAC/Chemical Abstracts name) (1065), 3-(4-chlorophenyl)-5-methylrhodanine (IUPAC name) (980), 5-methyl-6-thioxo-1,3,5-thiadiazinan-3-ylacetic acid (IUPAC name) (1286), 6-isopentenylaminopurine (alternative name) (210), abamectin (1), acetoprole [CCN], alanycarb (15), aldicarb (16), aldoxycarb (863), AZ 60541 (compound code), benclothiaz [CCN], benomyl (62), butylpyridaben (alternative name), cadusafos (109), carbofuran (118), carbon disulfide (945), carbosulfan (119), chloropicrin (141), chlorpyrifos (145), cloethocarb (999), cytokinins (alternative name) (210), dazomet (216), DBCP (1045), DCIP (218), diamidafos (1044), dichlofenthion (1051), dicliphos (alternative name), dimethoate (262), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ethoprophos (312), ethylene dibromide (316), fenamiphos (326), fenpyrad (alternative name), fensulfothion (1158), fosthiazate (408), fosthietan (1196), furfural (alternative name) [CCN], GY-81 (development code) (423), heterophos [CCN], iodomethane (IUPAC name) (542), isamidofos (1230), isazofos (1231), ivermectin (alternative name) [CCN], kinetin (alternative name) (210), mecarphon (1258),

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metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methyl bromide (537), methyl isothiocyanate (543), milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], *Myrothecium verrucaria* composition (alternative name) (565), NC-184 (compound code), oxamyl (602), phorate (636), phosphamidon (639), phosphocarb [CCN], sebufos (alternative name), selamectin (alternative name) [CCN], spinosad (737), terbam (alternative name), terbufos (773), tetrachlorothiophene (IUPAC/ Chemical Abstracts name) (1422), thiafenox (alternative name), thionazin (1434), triazophos (820), triazuron (alternative name), xlenols [CCN], YI-5302 (compound code) and zeatin (alternative name) (210),

a nitrification inhibitor selected from the group of substances consisting of potassium ethylxanthate [CCN] and nitrapyrin (580),

a plant activator selected from the group of substances consisting of acibenzolar (6), acibenzolar-S-methyl (6), probenazole (658) and *Reynoutria sachalinensis* extract (alternative name) (720),

a rodenticide selected from the group of substances consisting of 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), alpha-chlorohydrin [CCN], aluminium phosphide (640), antu (880), arsenous oxide (882), barium carbonate (891), bithiosemi (912), brodifacoum (89), bromadiolone (91), bromethalin (92), calcium cyanide (444), chloralose (127), chlorophacinone (140), cholecalciferol (alternative name) (850), coumachlor (1004), coumafuryl (1005), coumatetralyl (175), crimidine (1009), difenacoum (246), difethialone (249), diphacinone (273), ergocalciferol (301), flocoumafen (357), fluoroacetamide (379), flupropadine (1183), flupropadine hydrochloride (1183), gamma-HCH (430), HCH (430), hydrogen cyanide (444), iodomethane (IUPAC name) (542), lindane (430), magnesium phosphide (IUPAC name) (640), methyl bromide (537), norbormide (1318), phosacetim (1336), phosphine (IUPAC name) (640), phosphorus [CCN], pindone (1341), potassium arsenite [CCN], pyrinuron (1371), scilliroside (1390), sodium arsenite [CCN], sodium cyanide (444), sodium fluoroacetate (735), strychnine (745), thallium sulfate [CCN], warfarin (851) and zinc phosphide (640),

a synergist selected from the group of substances consisting of 2-(2-butoxyethoxy)-ethyl piperonylate (IUPAC name) (934), 5-(1,3-benzodioxol-5-yl)-3-hexylcyclohex-2-enone (IUPAC name) (903), farnesol with nerolidol (alternative name) (324), MB-599 (development code) (498), MGK 264 (development code) (296), piperonyl butoxide (649), piprotal (1343),

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propyl isomer (1358), S421 (development code) (724), sesamex (1393), sesasmolin (1394) and sulfoxide (1406),

an animal repellent selected from the group of substances consisting of anthraquinone (32), chloralose (127), copper naphthenate [CCN], copper oxychloride (171), diazinon (227), dicyclopentadiene (chemical name) (1069), guazatine (422), guazatine acetates (422), methiocarb (530), pyridin-4-amine (IUPAC name) (23), thiram (804), trimethacarb (840), zinc naphthenate [CCN] and ziram (856),

a virucide selected from the group of substances consisting of imanin (alternative name) [CCN] and ribavirin (alternative name) [CCN],

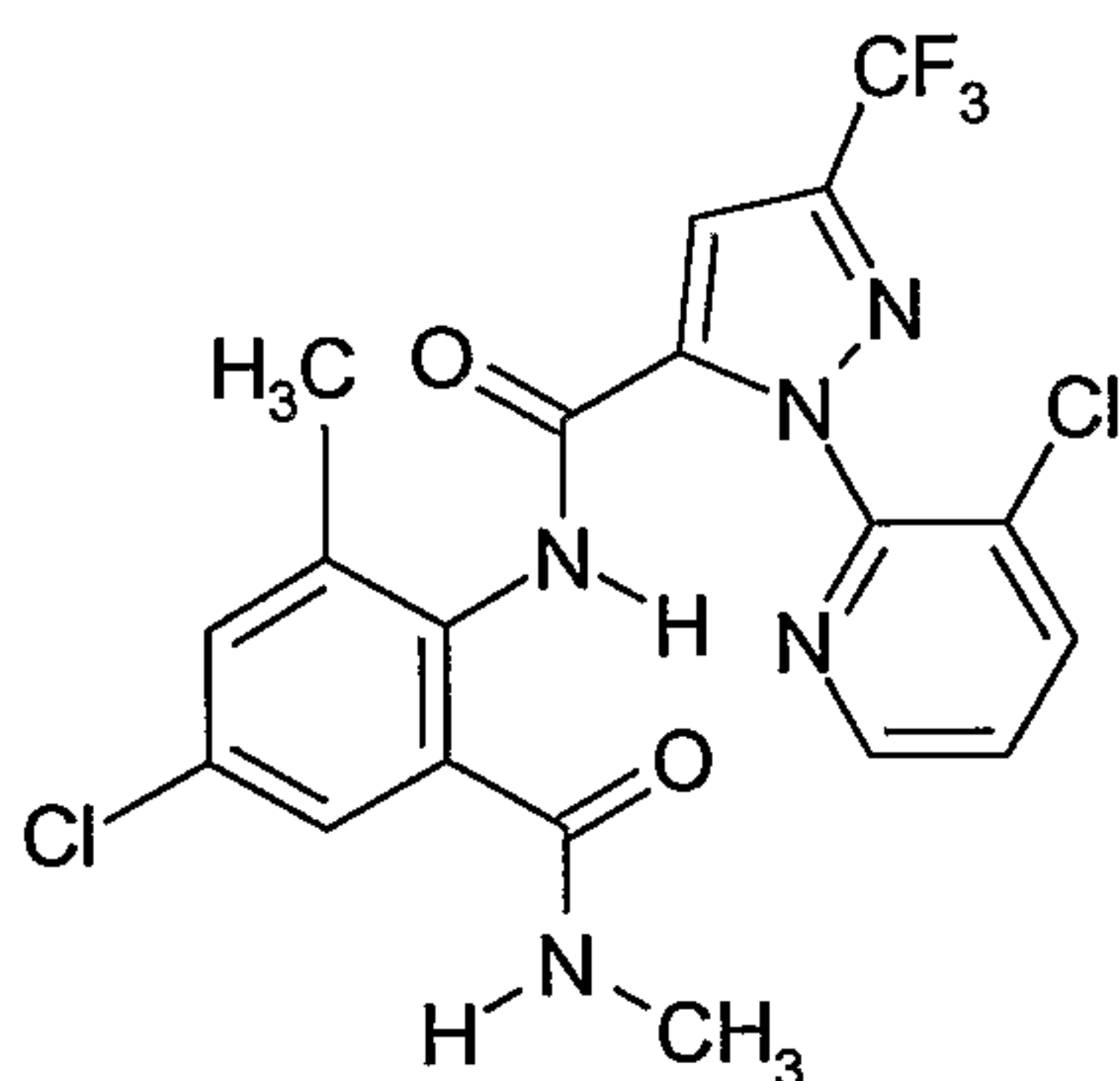
and a wound protectant selected from the group of substances consisting of mercuric oxide (512), octhilinone (590) and thiophanate-methyl (802).

A very especially preferred embodiment of the subject-matter {1.1.7} of the invention is {1.1.7.2} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-7) and the compound (B) is a compound selected from the group of substances consisting of abamectin (1), cyromazine (209), diafenthiuron (226), diazinon (227), emamectin benzoate (291), fenoxycarb (340), fosthiazate (408), lambda-cyhalothrin (198), lufenuron (490), methidathion (529), profenofos (662), pymetrozine (688), tefluthrin (769) and thiamethoxam (792).

The compound of formula (A-7) is known, for example, from the PCT Application WO-03/015519.

A preferred embodiment of the subject-matter {1.1} of the invention is {1.1.8} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-8)

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(A-8)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

An especially preferred embodiment of the subject-matter {1.1.8} of the invention is {1.1.8.1} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-8) and the compound (B) is a compound selected from the group of substances consisting of

an adjuvant selected from the group of substances consisting of petroleum oils (alternative name) (628),

an acaricide selected from the group of substances consisting of 1,1-bis(4-chlorophenyl)-2-ethoxyethanol (IUPAC name) (910), 2,4-dichlorophenyl benzenesulfonate (IUPAC/Chemical Abstracts name) (1059), 2-fluoro-*N*-methyl-*N*-1-naphthylacetamide (IUPAC name) (1295), 4-chlorophenyl phenyl sulfone (IUPAC name) (981), abamectin (1), acequinocyl (3), acetoprole [CCN], acrinathrin (9), aldicarb (16), aldoxycarb (863), alpha-cypermethrin (202), amidithion (870), amidoflumet [CCN], amidothioate (872), amiton (875), amiton hydrogen oxalate (875), amitraz (24), aramite (881), arsenous oxide (882), AVI 382 (compound code), AZ 60541 (compound code), azinphos-ethyl (44), azinphos-methyl (45), azobenzene (IUPAC name) (888), azocyclofen (46), azothoate (889), benomyl (62), benoxafos (alternative name) [CCN], benzoximate (71), benzyl benzoate (IUPAC name) [CCN], bifenazate (74), bifenthrin (76), binapacryl (907), brofenvalerate (alternative name), bromocyclen (918), bromophos (920), bromophos-ethyl (921), bromopropylate (94), buprofezin (99), butocarboxim (103), butoxycarboxim (104), butylpyridaben (alternative name), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115),

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carbofuran (118), carbophenothion (947), CGA 50'439 (development code) (125), chino-methionat (126), chlorbenside (959), chlordimeform (964), chlordimeform hydrochloride (964), chlorfenapyr (130), chlorfenethol (968), chlorfenson (970), chlorfensulphide (971), chlorfenvinphos (131), chlorobenzilate (975), chloromebuform (977), chloromethiuron (978), chloropropylate (983), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), cinerin I (696), cinerin II (696), cinerins (696), clofentezine (158), closantel (alternative name) [CCN], coumaphos (174), crotamiton (alternative name) [CCN], crotoxyphos (1010), cufraneb (1013), cyanthoate (1020), cyhalothrin (196), cyhexatin (199), cypermethrin (201), DCPM (1032), DDT (219), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafen-thiuron (226), dialifos (1042), diazinon (227), dichlofluanid (230), dichlorvos (236), dicliphos (alternative name), dicofol (242), dicrotophos (243), dienochlor (1071), dimefox (1081), dimethoate (262), dinactin (alternative name) (653), dinex (1089), dinex-diclexine (1089), dinobuton (269), dinocap (270), dinocap-4 [CCN], dinocap-6 [CCN], dinocton (1090), dinopenton (1092), dinosulfon (1097), dinoterbon (1098), dioxathion (1102), diphenyl sulfone (IUPAC name) (1103), disulfiram (alternative name) [CCN], disulfoton (278), DNOC (282), dofenapyn (1113), doramectin (alternative name) [CCN], endosulfan (294), endothion (1121), EPN (297), eprinomectin (alternative name) [CCN], ethion (309), ethoate-methyl (1134), etoxazole (320), etrimfos (1142), fenazaflor (1147), fenazaquin (328), fenbutatin oxide (330), fenothiocarb (337), fenpropathrin (342), fenpyrad (alternative name), fenpyroximate (345), fenson (1157), fentrifanil (1161), fenvalerate (349), fipronil (354), fluacrypyrim (360), fluazuron (1166), flubenzimine (1167), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenoxuron (370), flumethrin (372), fluorbenside (1174), fluvalinate (1184), FMC 1137 (development code) (1185), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), gamma-HCH (430), glyodin (1205), halfenprox (424), heptenophos (432), hexadecyl cyclopropanecarboxylate (IUPAC/Chemical Abstracts name) (1216), hexythiazox (441), iodomethane (IUPAC name) (542), isocarbophos (alternative name) (473), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), lindane (430), lufenuron (490), malathion (492), malonoben (1254), mecarbam (502), mephosfolan (1261), mesulfen (alternative name) [CCN], methacrifos (1266), methamidophos (527), methidathion (529), methiocarb (530), methomyl (531), methyl bromide (537), metolcarb (550), mevinphos (556), mexacarbate (1290), milbemectin

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(557), milbemycin oxime (alternative name) [CCN], mipafox (1293), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naled (567), NC-184 (compound code), nifluridide (1309), nikkomycins (alternative name) [CCN], nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), omethoate (594), oxamyl (602), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), parathion (615), permethrin (626), petroleum oils (alternative name) (628), phenkapton (1330), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosphamidon (639), phoxim (642), pirimiphos-methyl (652), polychloroterpenes (traditional name) (1347), polynactins (alternative name) (653), proclonol (1350), profenofos (662), promacyl (1354), propargite (671), propetamphos (673), propoxur (678), prothidathion (1360), prothoate (1362), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), quinalphos (711), quintiofos (1381), R-1492 (development code) (1382), RA-17 (development code) (1383), rotenone (722), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), sophamide (1402), spirodiclofen (738), spiromesifen (739), SSI-121 (development code) (1404), sulfiram (alternative name) [CCN], sulfluramid (750), sulfotep (753), sulfur (754), SZI-121 (development code) (757), tau-fluvalinate (398), tebufenpyrad (763), TEPP (1417), terbam (alternative name), tetrachlorvinphos (777), tetradifon (786), tetranactin (alternative name) (653), tetrasul (1425), thiafenox (alternative name), thiocarboxime (1431), thiofanox (800), thiometon (801), thioquinox (1436), thuringiensin (alternative name) [CCN], triamiphos (1441), triarathene (1443), triazophos (820), triazuron (alternative name), trichlorfon (824), trifenofos (1455), trinactin (alternative name) (653), vamidothion (847), vaniliprole [CCN] and YI-5302 (compound code),

an algicide selected from the group of substances consisting of bethoxazin [CCN], copper dioctanoate (IUPAC name) (170), copper sulfate (172), cybutryne [CCN], dichlone (1052), dichlorophen (232), endothal (295), fentin (347), hydrated lime [CCN], nabam (566), quinoclamine (714), quinonamid (1379), simazine (730), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

an anthelmintic selected from the group of substances consisting of abamectin (1), crufomate (1011), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ivermectin (alternative name) [CCN], milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], piperazine [CCN], selamectin (alternative name) [CCN], spinosad (737) and thiophanate (1435),

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an avicide selected from the group of substances consisting of chloralose (127), endrin (1122), fenthion (346), pyridin-4-amine (IUPAC name) (23) and strychnine (745),

a bactericide selected from the group of substances consisting of 1-hydroxy-1*H*-pyridine-2-thione (IUPAC name) (1222), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), 8-hydroxyquinoline sulfate (446), bronopol (97), copper dioctanoate (IUPAC name) (170), copper hydroxide (IUPAC name) (169), cresol [CCN], dichlorophen (232), dipyrithione (1105), dodicin (1112), fenaminosulf (1144), formaldehyde (404), hydrargaphen (alternative name) [CCN], kasugamycin (483), kasugamycin hydrochloride hydrate (483), nickel bis(dimethyldithiocarbamate) (IUPAC name) (1308), nitrapyrin (580), octhilinone (590), oxolinic acid (606), oxytetracycline (611), potassium hydroxyquinoline sulfate (446), probenazole (658), streptomycin (744), streptomycin sesquisulfate (744), tecloftalam (766) and thiomersal (alternative name) [CCN],

a biological agent selected from the group of substances consisting of *Adoxophyes orana* GV (alternative name) (12), *Agrobacterium radiobacter* (alternative name) (13), *Amblyseius* spp. (alternative name) (19), *Anagrapha falcifera* NPV (alternative name) (28), *Anagrus atomus* (alternative name) (29), *Aphelinus abdominalis* (alternative name) (33), *Aphidius colemani* (alternative name) (34), *Aphidoletes aphidimyza* (alternative name) (35), *Autographa californica* NPV (alternative name) (38), *Bacillus firmus* (alternative name) (48), *Bacillus sphaericus* Neide (scientific name) (49), *Bacillus thuringiensis* Berliner (scientific name) (51), *Bacillus thuringiensis* subsp. *aizawai* (scientific name) (51), *Bacillus thuringiensis* subsp. *israelensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *japonensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *kurstaki* (scientific name) (51), *Bacillus thuringiensis* subsp. *tenebrionis* (scientific name) (51), *Beauveria bassiana* (alternative name) (53), *Beauveria brongniartii* (alternative name) (54), *Chrysoperla carnea* (alternative name) (151), *Cryptolaemus montrouzieri* (alternative name) (178), *Cydia pomonella* GV (alternative name) (191), *Dacnusa sibirica* (alternative name) (212), *Diglyphus isaea* (alternative name) (254), *Encarsia formosa* (scientific name) (293), *Eretmocerus eremicus* (alternative name) (300), *Helicoverpa zea* NPV (alternative name) (431), *Heterorhabditis bacteriophora* and *H. megidis* (alternative name) (433), *Hippodamia convergens* (alternative name) (442), *Leptomastix dactylopii* (alternative name) (488), *Macrolophus caliginosus* (alternative name) (491), *Mamestra brassicae* NPV (alternative name) (494), *Metaphycus helvolus* (alternative name) (522), *Metarhizium anisopliae* var. *acridum* (scientific name) (523), *Metarhizium anisopliae* var. *anisopliae* (scientific name) (523), *Neodiprion sertifer* NPV and *N. lecontei* NPV (alternative name) (575), *Orius* spp.

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(alternative name) (596), *Paecilomyces fumosoroseus* (alternative name) (613), *Phytoseiulus persimilis* (alternative name) (644), *Spodoptera exigua* multicapsid nuclear polyhedrosis virus (scientific name) (741), *Steinernema bibionis* (alternative name) (742), *Steinernema carpocapsae* (alternative name) (742), *Steinernema feltiae* (alternative name) (742), *Steinernema glaseri* (alternative name) (742), *Steinernema riobrave* (alternative name) (742), *Steinernema riobransis* (alternative name) (742), *Steinernema scapterisci* (alternative name) (742), *Steinernema* spp. (alternative name) (742), *Trichogramma* spp. (alternative name) (826), *Typhlodromus occidentalis* (alternative name) (844) and *Verticillium lecanii* (alternative name) (848),

a soil sterilant selected from the group of substances consisting of iodomethane (IUPAC name) (542) and methyl bromide (537),

a chemosterilant selected from the group of substances consisting of apholate [CCN], bisazir (alternative name) [CCN], busulfan (alternative name) [CCN], diflubenzuron (250), dimatif (alternative name) [CCN], hemel [CCN], hempa [CCN], metepa [CCN], methiotepa [CCN], methyl apholate [CCN], morzid [CCN], penfluron (alternative name) [CCN], tepa [CCN], thiohempa (alternative name) [CCN], thiotepa (alternative name) [CCN], tretamine (alternative name) [CCN] and uredepa (alternative name) [CCN],

an insect pheromone selected from the group of substances consisting of (*E*)-dec-5-en-1-yl acetate with (*E*)-dec-5-en-1-ol (IUPAC name) (222), (*E*)-tridec-4-en-1-yl acetate (IUPAC name) (829), (*E*)-6-methylhept-2-en-4-ol (IUPAC name) (541), (*E,Z*)-tetradeca-4,10-dien-1-yl acetate (IUPAC name) (779), (*Z*)-dodec-7-en-1-yl acetate (IUPAC name) (285), (*Z*)-hexadec-11-enal (IUPAC name) (436), (*Z*)-hexadec-11-en-1-yl acetate (IUPAC name) (437), (*Z*)-hexadec-13-en-11-yn-1-yl acetate (IUPAC name) (438), (*Z*)-icos-13-en-10-one (IUPAC name) (448), (*Z*)-tetradec-7-en-1-al (IUPAC name) (782), (*Z*)-tetradec-9-en-1-ol (IUPAC name) (783), (*Z*)-tetradec-9-en-1-yl acetate (IUPAC name) (784), (*7E,9Z*)-dodeca-7,9-dien-1-yl acetate (IUPAC name) (283), (*9Z,11E*)-tetradeca-9,11-dien-1-yl acetate (IUPAC name) (780), (*9Z,12E*)-tetradeca-9,12-dien-1-yl acetate (IUPAC name) (781), 14-methyloctadec-1-ene (IUPAC name) (545), 4-methylnonan-5-ol with 4-methylnonan-5-one (IUPAC name) (544), alpha-multistriatin (alternative name) [CCN], brevicomin (alternative name) [CCN], codlelure (alternative name) [CCN], codlemone (alternative name) (167), cuelure (alternative name) (179), disparlure (277), dodec-8-en-1-yl acetate (IUPAC name) (286), dodec-9-en-1-yl acetate (IUPAC name) (287), dodeca-8,10-dien-1-yl acetate (IUPAC name) (284), dominicalure (alternative name) [CCN], ethyl 4-methyloctanoate (IUPAC name) (317), eugenol (alternative name) [CCN], frontalinal (alternative name) [CCN], gossyplure

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(alternative name) (420), grandlure (421), grandlure I (alternative name) (421), grandlure II (alternative name) (421), grandlure III (alternative name) (421), grandlure IV (alternative name) (421), hexalure [CCN], ipsdienol (alternative name) [CCN], ipsenol (alternative name) [CCN], japonilure (alternative name) (481), lineatin (alternative name) [CCN], litlure (alternative name) [CCN], looplure (alternative name) [CCN], medlure [CCN], megatomoic acid (alternative name) [CCN], methyl eugenol (alternative name) (540), muscalure (563), octadeca-2,13-dien-1-yl acetate (IUPAC name) (588), octadeca-3,13-dien-1-yl acetate (IUPAC name) (589), orfralure (alternative name) [CCN], oryctalure (alternative name) (317), ostramone (alternative name) [CCN], siglure [CCN], sordidin (alternative name) (736), sulcatol (alternative name) [CCN], tetradec-11-en-1-yl acetate (IUPAC name) (785), trimedlure (839), trimedlure A (alternative name) (839), trimedlure B₁ (alternative name) (839), trimedlure B₂ (alternative name) (839), trimedlure C (alternative name) (839) and trunc-call (alternative name) [CCN],

an insect repellent selected from the group of substances consisting of 2-(octylthio)-ethanol (IUPAC name) (591), butopyronoxyl (933), butoxy(polypropylene glycol) (936), dibutyl adipate (IUPAC name) (1046), dibutyl phthalate (1047), dibutyl succinate (IUPAC name) (1048), diethyltoluamide [CCN], dimethyl carbate [CCN], dimethyl phthalate [CCN], ethyl hexanediol (1137), hexamide [CCN], methoquin-butyl (1276), methylneodecanamide [CCN], oxamate [CCN] and picaridin [CCN],

an insecticide selected from the group of substances consisting of 1,1-dichloro-1-nitroethane (IUPAC/Chemical Abstracts name) (1058), 1,1-dichloro-2,2-bis(4-ethylphenyl)-ethane (IUPAC name) (1056), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1-bromo-2-chloroethane (IUPAC/Chemical Abstracts name) (916), 2,2,2-trichloro-1-(3,4-dichlorophenyl)ethyl acetate (IUPAC name) (1451), 2,2-dichlorovinyl 2-ethylsulfinylethyl methyl phosphate (IUPAC name) (1066), 2-(1,3-dithiolan-2-yl)phenyl dimethylcarbamate (IUPAC/Chemical Abstracts name) (1109), 2-(2-butoxyethoxy)ethyl thiocyanate (IUPAC/Chemical Abstracts name) (935), 2-(4,5-dimethyl-1,3-dioxolan-2-yl)phenyl methylcarbamate (IUPAC/Chemical Abstracts name) (1084), 2-(4-chloro-3,5-xylyloxy)ethanol (IUPAC name) (986), 2-chlorovinyl diethyl phosphate (IUPAC name) (984), 2-imidazolidone (IUPAC name) (1225), 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 2-methyl(prop-2-ynyl)aminophenyl methylcarbamate (IUPAC name) (1284), 2-thiocyanatoethyl laurate (IUPAC name) (1433), 3-bromo-1-chloroprop-1-ene (IUPAC name) (917), 3-methyl-1-phenylpyrazol-5-yl dimethylcarbamate (IUPAC name) (1283), 4-methyl(prop-2-ynyl)amino-3,5-xylyl methylcarbamate

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(IUPAC name) (1285), 5,5-dimethyl-3-oxocyclohex-1-enyl dimethylcarbamate (IUPAC name) (1085), abamectin (1), acephate (2), acetamiprid (4), acethion (alternative name) [CCN], acetoprole [CCN], acrinathrin (9), acrylonitrile (IUPAC name) (861), alanycarb (15), aldicarb (16), aldoxycarb (863), aldrin (864), allethrin (17), allosamidin (alternative name) [CCN], allyxycarb (866), alpha-cypermethrin (202), alpha-ecdysone (alternative name) [CCN], aluminium phosphide (640), amidithion (870), amidothioate (872), aminocarb (873), amiton (875), amiton hydrogen oxalate (875), amitraz (24), anabasine (877), athidathion (883), AVI 382 (compound code), AZ 60541 (compound code), azadirachtin (alternative name) (41), azamethiphos (42), azinphos-ethyl (44), azinphos-methyl (45), azothoate (889), *Bacillus thuringiensis* delta endotoxins (alternative name) (52), barium hexafluorosilicate (alternative name) [CCN], barium polysulfide (IUPAC/Chemical Abstracts name) (892), barthrin [CCN], BAS 320 I (compound code), Bayer 22/190 (development code) (893), Bayer 22408 (development code) (894), bendiocarb (58), benfuracarb (60), bensultap (66), beta-cyfluthrin (194), beta-cypermethrin (203), bifenthrin (76), bioallethrin (78), bioallethrin S-cyclopentenyl isomer (alternative name) (79), bioethanomethrin [CCN], biopermethrin (908), bioresmethrin (80), bis(2-chloroethyl) ether (IUPAC name) (909), bistrifluron (83), borax (86), brofenvalerate (alternative name), bromfenvinfos (914), bromocyclen (918), bromo-DDT (alternative name) [CCN], bromophos (920), bromophos-ethyl (921), bufencarb (924), buprofezin (99), butacarb (926), butathiofos (927), butocarboxim (103), butonate (932), butoxycarboxim (104), butylpyridaben (alternative name), cadusafos (109), calcium arsenate [CCN], calcium cyanide (444), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbon disulfide (IUPAC/Chemical Abstracts name) (945), carbon tetrachloride (IUPAC name) (946), carbophenothion (947), carbosulfan (119), cartap (123), cartap hydrochloride (123), cevadine (alternative name) (725), chlorbicyclen (960), chlordane (128), chlordecone (963), chlordimeform (964), chlordimeform hydrochloride (964), chlorethoxyfos (129), chlorfenapyr (130), chlorfenvinphos (131), chlorfluazuron (132), chlormephos (136), chloroform [CCN], chloropicrin (141), chlorphoxim (989), chlorprazophos (990), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), chromafenozide (150), cinerin I (696), cinerin II (696), cinerins (696), cis-resmethrin (alternative name), cismethrin (80), clocythrin (alternative name), cloethocarb (999), closantel (alternative name) [CCN], clothianidin (165), copper acetoarsenite [CCN], copper arsenate [CCN], copper oleate [CCN], coumaphos (174), coumithoate (1006), crotamiton (alternative name) [CCN], crotoxyphos (1010), crufomate (1011), cryolite (alternative name) (177), CS 708 (development code) (1012), cyanofenphos

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(1019), cyanophos (184), cyanthoate (1020), cyclethrin [CCN], cycloprothrin (188), cyfluthrin (193), cyhalothrin (196), cypermethrin (201), cyphenothrin (206), cyromazine (209), cythioate (alternative name) [CCN], *d*-limonene (alternative name) [CCN], *d*-tetramethrin (alternative name) (788), DAEP (1031), dazomet (216), DDT (219), decarbofuran (1034), deltamethrin (223), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthiuron (226), dialifos (1042), diamidafos (1044), diazinon (227), dicapthon (1050), dichlofenthion (1051), dichlorvos (236), dicliphos (alternative name), dicresyl (alternative name) [CCN], dicrotophos (243), dicyclanil (244), dieldrin (1070), diethyl 5-methylpyrazol-3-yl phosphate (IUPAC name) (1076), diflubenzuron (250), dilor (alternative name) [CCN], dimefluthrin [CCN], dimefox (1081), dimetan (1085), dimethoate (262), dimethrin (1083), dimethylvinphos (265), dimetilan (1086), dinex (1089), dinex-diclexine (1089), dinoprop (1093), dinosam (1094), dinoseb (1095), dinotefuran (271), diofenolan (1099), dioxabenzofos (1100), dioxacarb (1101), dioxathion (1102), disulfoton (278), dithicrofos (1108), DNOC (282), doramectin (alternative name) [CCN], DSP (1115), ecdysterone (alternative name) [CCN], EI 1642 (development code) (1118), emamectin (291), emamectin benzoate (291), EMPC (1120), empenthrin (292), endosulfan (294), endothion (1121), endrin (1122), EPBP (1123), EPN (297), epofenonane (1124), eprinomectin (alternative name) [CCN], esfenvalerate (302), etaphos (alternative name) [CCN], ethiofencarb (308), ethion (309), ethiprole (310), ethoate-methyl (1134), ethoprophos (312), ethyl formate (IUPAC name) [CCN], ethyl-DDD (alternative name) (1056), ethylene dibromide (316), ethylene dichloride (chemical name) (1136), ethylene oxide [CCN], etofenprox (319), etrimfos (1142), EXD (1143), famphur (323), fenamiphos (326), fenazaflor (1147), fenchlorphos (1148), fenethacarb (1149), fenfluthrin (1150), fenitrothion (335), fenobucarb (336), fenoxacrim (1153), fenoxycarb (340), fenpirithrin (1155), fenpropathrin (342), fenpyrad (alternative name), fensulfothion (1158), fenthion (346), fenthion-ethyl [CCN], fenvalerate (349), fipronil (354), flonicamid (358), flucofuron (1168), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenerim [CCN], flufenoxuron (370), flufenprox (1171), flumethrin (372), fluvalinate (1184), FMC.1137 (development code) (1185), fonofos (1191), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), fosmethilan (1194), fospirate (1195), fosthiazate (408), fosthietan (1196), furathiocarb (412), furethrin (1200), gamma-cyhalothrin (197), gamma-HCH (430), guazatine (422), guazatine acetates (422), GY-81 (development code) (423), halfenprox (424), halofenozide (425), HCH (430), HEOD (1070), heptachlor

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(1211), heptenophos (432), heterophos [CCN], hexaflumuron (439), HHDN (864), hydramethylnon (443), hydrogen cyanide (444), hydroprene (445), hyquincarb (1223), imidacloprid (458), imiprothrin (460), indoxacarb (465), iodomethane (IUPAC name) (542), IPSP (1229), isazofos (1231), isobenzan (1232), isocarbophos (alternative name) (473), isodrin (1235), isofenphos (1236), isolane (1237), isoprocab (472), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), isoprothiolane (474), isothioate (1244), isoxathion (480), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), juvenile hormone I (alternative name) [CCN], juvenile hormone II (alternative name) [CCN], juvenile hormone III (alternative name) [CCN], kelevan (1249), kinoprene (484), lambda-cyhalothrin (198), lead arsenate [CCN], leptophos (1250), lindane (430), lirimfos (1251), lufenuron (490), lythidathion (1253), *m*-cumenyl methylcarbamate (IUPAC name) (1014), magnesium phosphide (IUPAC name) (640), malathion (492), malonoben (1254), mazidox (1255), mecarbam (502), mecarphon (1258), menazon (1260), mephosfolan (1261), mercurous chloride (513), mesulfenfos (1263), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methacrifos (1266), methamidophos (527), methanesulfonyl fluoride (IUPAC/Chemical Abstracts name) (1268), methidathion (529), methiocarb (530), methocrotophos (1273), methomyl (531), methoprene (532), methoquin-butyl (1276), methothrin (alternative name) (533), methoxychlor (534), methoxyfenozide (535), methyl bromide (537), methyl isothiocyanate (543), methylchloroform (alternative name) [CCN], methylene chloride [CCN], metofluthrin [CCN], metolcarb (550), metoxadiazone (1288), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), mirex (1294), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naftalofos (alternative name) [CCN], naled (567), naphthalene (IUPAC/Chemical Abstracts name) (1303), NC-170 (development code) (1306), NC-184 (compound code), nicotine (578), nicotine sulfate (578), nifluridide (1309), nitenpyram (579), nithiazine (1311), nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), nornicotine (traditional name) (1319), novaluron (585), noviflumuron (586), O-2,5-dichloro-4-iodophenyl O-ethyl ethylphosphonothioate (IUPAC name) (1057), O,O-diethyl O-4-methyl-2-oxo-2*H*-chromen-7-yl phosphorothioate (IUPAC name) (1074), O,O-diethyl O-6-methyl-2-propylpyrimidin-4-yl phosphorothioate (IUPAC name) (1075), O,O,O',O'-tetrapropyl dithiopyrophosphate (IUPAC name) (1424), oleic acid (IUPAC name) (593), omethoate (594), oxamyl (602), oxydemeton-methyl (609), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), para-dichlorobenzene [CCN], parathion (615),

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parathion-methyl (616), penfluron (alternative name) [CCN], pentachlorophenol (623), pentachlorophenyl laurate (IUPAC name) (623), permethrin (626), petroleum oils (alternative name) (628), PH 60-38 (development code) (1328), phenkapton (1330), phenothrin (630), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosnichlor (1339), phosphamidon (639), phosphine (IUPAC name) (640), phoxim (642), phoxim-methyl (1340), pirimetaphos (1344), pirimicarb (651), pirimiphos-ethyl (1345), pirimiphos-methyl (652), polychlorodicyclopentadiene isomers (IUPAC name) (1346), polychloroterpenes (traditional name) (1347), potassium arsenite [CCN], potassium thiocyanate [CCN], prallethrin (655), precocene I (alternative name) [CCN], precocene II (alternative name) [CCN], precocene III (alternative name) [CCN], primidophos (1349), profenofos (662), profluthrin [CCN], promacyl (1354), promecarb (1355), propaphos (1356), propetamphos (673), propoxur (678), prothidathion (1360), prothiofos (686), prothoate (1362), protrifenbute [CCN], pymetrozine (688), pyraclofos (689), pyrazophos (693), pyresmethrin (1367), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridalyl (700), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), pyriproxyfen (708), quassia (alternative name) [CCN], quinalphos (711), quinalphos-methyl (1376), quinothion (1380), quintiofos (1381), R-1492 (development code) (1382), rafoxanide (alternative name) [CCN], resmethrin (719), rotenone (722), RU 15525 (development code) (723), RU 25475 (development code) (1386), ryania (alternative name) (1387), ryanodine (traditional name) (1387), sabadilla (alternative name) (725), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), silafluofen (728), SN 72129 (development code) (1397), sodium arsenite [CCN], sodium cyanide (444), sodium fluoride (IUPAC/Chemical Abstracts name) (1399), sodium hexafluorosilicate (1400), sodium pentachlorophenoxide (623), sodium selenate (IUPAC name) (1401), sodium thiocyanate [CCN], sophamide (1402), spinosad (737), spiromesifen (739), sulcofuron (746), sulcofuron-sodium (746), sulfluramid (750), sulfotep (753), sulfuryl fluoride (756), sulprofos (1408), tar oils (alternative name) (758), tau-fluvalinate (398), tazimcarb (1412), TDE (1414), tebufenozide (762), tebufenpyrad (763), tebupirimfos (764), teflubenzuron (768), tefluthrin (769), temephos (770), TEPP (1417), terallethrin (1418), terbam (alternative name), terbufos (773), tetrachloroethane [CCN], tetrachlorvinphos (777), tetramethrin (787), theta-cypermethrin (204), thiacloprid (791), thiafenox (alternative name), thiamethoxam (792), thicrofos (1428), thiocarboxime (1431), thiocyclam (798), thiocyclam hydrogen oxalate (798), thiodicarb (799), thiofanox (800), thiometon (801), thionazin (1434), thiosultap (803), thiosultap-sodium (803), thuringiensin (alternative name) [CCN], tolfenpyrad

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(809), tralomethrin (812), transfluthrin (813), transpermethrin (1440), triamiphos (1441), triazamate (818), triazophos (820), triazuron (alternative name), trichlorfon (824), trichlormetaphos-3 (alternative name) [CCN], trichloronat (1452), trifenofos (1455), triflumuron (835), trimethacarb (840), triprene (1459), vamidothion (847), vanilprole [CCN], veratridine (alternative name) (725), veratrine (alternative name) (725), XMC (853), xylylcarb (854), YI-5302 (compound code), zeta-cypermethrin (205), zetamethrin (alternative name), zinc phosphide (640), zolaprofos (1469) and ZXI 8901 (development code) (858),

a molluscicide selected from the group of substances consisting of bis(tributyltin) oxide (IUPAC name) (913), bromoacetamide [CCN], calcium arsenate [CCN], cloethocarb (999), copper acetoarsenite [CCN], copper sulfate (172), fentin (347), ferric phosphate (IUPAC name) (352), metaldehyde (518), methiocarb (530), niclosamide (576), niclosamide-olamine (576), pentachlorophenol (623), sodium pentachlorophenoxide (623), tazimcarb (1412), thiodicarb (799), tributyltin oxide (913), trifenmorph (1454), trimethacarb (840), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

a nematicide selected from the group of substances consisting of 1,2-dibromo-3-chloropropane (IUPAC/Chemical Abstracts name) (1045), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1,3-dichloropropene (233), 3,4-dichlorotetrahydrothiophene 1,1-dioxide (IUPAC/Chemical Abstracts name) (1065), 3-(4-chlorophenyl)-5-methylrhodanine (IUPAC name) (980), 5-methyl-6-thioxo-1,3,5-thiadiazinan-3-ylacetic acid (IUPAC name) (1286), 6-isopentenylaminopurine (alternative name) (210), abamectin (1), acetoprole [CCN], alanycarb (15), aldicarb (16), aldoxycarb (863), AZ 60541 (compound code), benclothiaz [CCN], benomyl (62), butylpyridaben (alternative name), cadusafos (109), carbofuran (118), carbon disulfide (945), carbosulfan (119), chloropicrin (141), chlorpyrifos (145), cloethocarb (999), cytokinins (alternative name) (210), dazomet (216), DBCP (1045), DCIP (218), diamidafos (1044), dichlofenthion (1051), dicliphos (alternative name), dimethoate (262), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ethoprophos (312), ethylene dibromide (316), fenamiphos (326), fenpyrad (alternative name), fensulfothion (1158), fosthiazate (408), fosthietan (1196), furfural (alternative name) [CCN], GY-81 (development code) (423), heterophos [CCN], iodomethane (IUPAC name) (542), isamidofos (1230), isazofos (1231), ivermectin (alternative name) [CCN], kinetin (alternative name) (210), mecarphon (1258), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methyl bromide (537), methyl isothiocyanate (543), milbemycin oxime (alternative name) [CCN],

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moxidectin (alternative name) [CCN], *Myrothecium verrucaria* composition (alternative name) (565), NC-184 (compound code), oxamyl (602), phorate (636), phosphamidon (639), phosphocarb [CCN], sebufos (alternative name), selamectin (alternative name) [CCN], spinosad (737), terbam (alternative name), terbufos (773), tetrachlorothiophene (IUPAC/ Chemical Abstracts name) (1422), thiafenox (alternative name), thionazin (1434), triazophos (820), triazuron (alternative name), xlenols [CCN], YI-5302 (compound code) and zeatin (alternative name) (210),

a nitrification inhibitor selected from the group of substances consisting of potassium ethylxanthate [CCN] and nitrapyrin (580),

a plant activator selected from the group of substances consisting of acibenzolar (6), acibenzolar-S-methyl (6), probenazole (658) and *Reynoutria sachalinensis* extract (alternative name) (720),

a rodenticide selected from the group of substances consisting of 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), alpha-chlorohydrin [CCN], aluminium phosphide (640), antu (880), arsenous oxide (882), barium carbonate (891), bithiosemi (912), brodifacoum (89), bromadiolone (91), bromethalin (92), calcium cyanide (444), chloralose (127), chlorophacinone (140), cholecalciferol (alternative name) (850), coumachlor (1004), coumafuryl (1005), coumatetralyl (175), crimidine (1009), difenacoum (246), difethialone (249), diphacinone (273), ergocalciferol (301), flocoumafen (357), fluoroacetamide (379), flupropadine (1183), flupropadine hydrochloride (1183), gamma-HCH (430), HCH (430), hydrogen cyanide (444), iodomethane (IUPAC name) (542), lindane (430), magnesium phosphide (IUPAC name) (640), methyl bromide (537), norbormide (1318), phosacetim (1336), phosphine (IUPAC name) (640), phosphorus [CCN], pindone (1341), potassium arsenite [CCN], pyrinuron (1371), scilliroside (1390), sodium arsenite [CCN], sodium cyanide (444), sodium fluoroacetate (735), strychnine (745), thallium sulfate [CCN], warfarin (851) and zinc phosphide (640),

a synergist selected from the group of substances consisting of 2-(2-butoxyethoxy)-ethyl piperonylate (IUPAC name) (934), 5-(1,3-benzodioxol-5-yl)-3-hexylcyclohex-2-enone (IUPAC name) (903), farnesol with nerolidol (alternative name) (324), MB-599 (development code) (498), MGK 264 (development code) (296), piperonyl butoxide (649), piprotal (1343), propyl isomer (1358), S421 (development code) (724), sesamex (1393), sesasmolin (1394) and sulfoxide (1406),

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an animal repellent selected from the group of substances consisting of anthraquinone (32), chloralose (127), copper naphthenate [CCN], copper oxychloride (171), diazinon (227), dicyclopentadiene (chemical name) (1069), guazatine (422), guazatine acetates (422), methiocarb (530), pyridin-4-amine (IUPAC name) (23), thiram (804), trimethacarb (840), zinc naphthenate [CCN] and ziram (856),

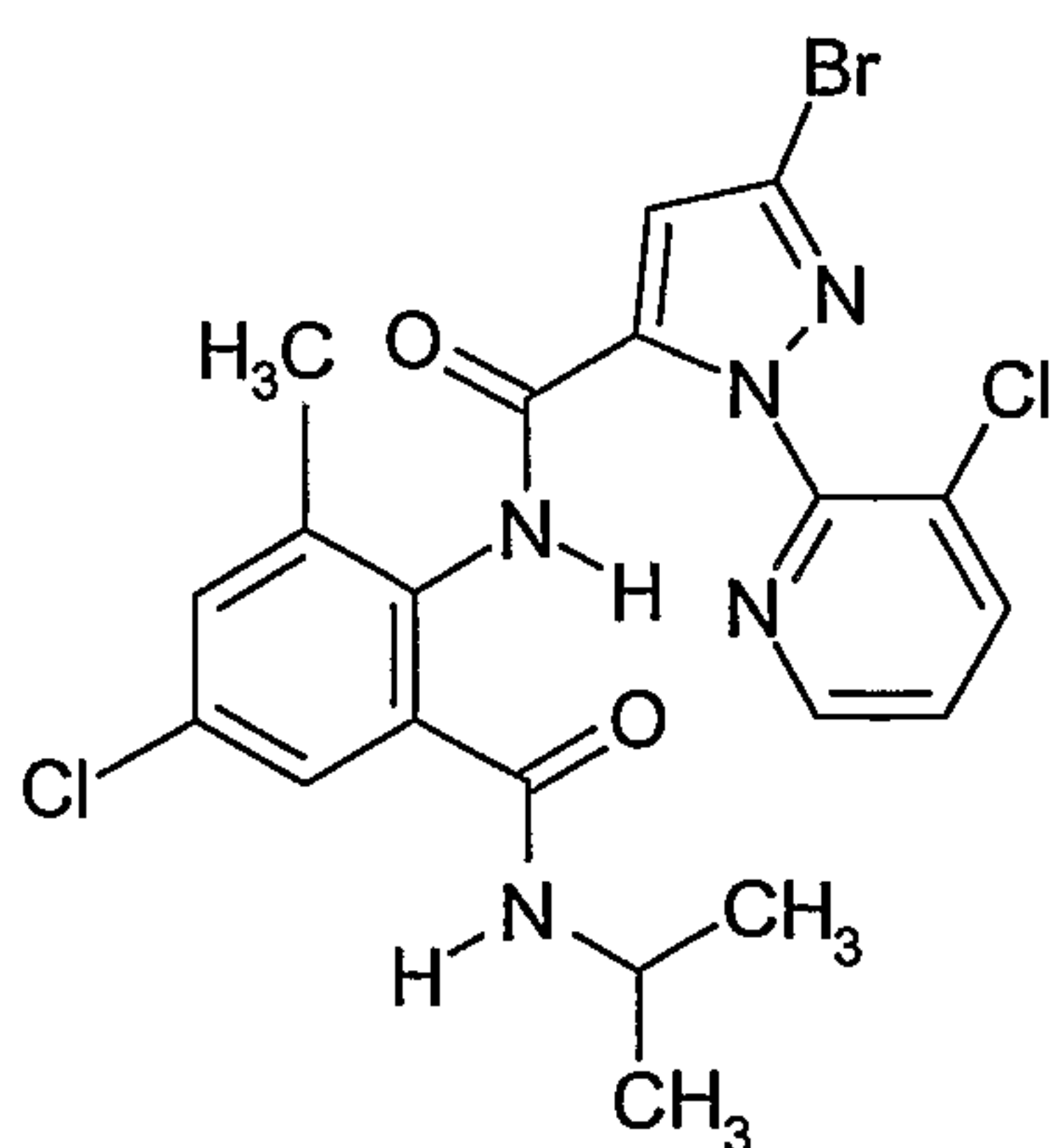
a virucide selected from the group of substances consisting of imanin (alternative name) [CCN] and ribavirin (alternative name) [CCN],

and a wound protectant selected from the group of substances consisting of mercuric oxide (512), octhillinone (590) and thiophanate-methyl (802).

A very especially preferred embodiment of the subject-matter {1.1.8} of the invention is {1.1.8.2} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-8) and the compound (B) is a compound selected from the group of substances consisting of abamectin (1), cyromazine (209), diafenthiuron (226), diazinon (227), emamectin benzoate (291), fenoxycarb (340), fosthiazate (408), lambda-cyhalothrin (198), lufenuron (490), methidathion (529), profenofos (662), pymetrozine (688), tefluthrin (769) and thiamethoxam (792).

The compound of formula (A-8) is known, for example, from the PCT Application WO-03/015519.

A preferred embodiment of the subject-matter {1.1} of the invention is {1.1.9} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-9)



(A-9)

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and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

An especially preferred embodiment of the subject-matter {1.1.9} of the invention is {1.1.9.1} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-9) and the compound (B) is a compound selected from the group of substances consisting of

an adjuvant selected from the group of substances consisting of petroleum oils (alternative name) (628),

an acaricide selected from the group of substances consisting of 1,1-bis(4-chlorophenyl)-2-ethoxyethanol (IUPAC name) (910), 2,4-dichlorophenyl benzenesulfonate (IUPAC/Chemical Abstracts name) (1059), 2-fluoro-*N*-methyl-*N*-1-naphthylacetamide (IUPAC name) (1295), 4-chlorophenyl phenyl sulfone (IUPAC name) (981), abamectin (1), acequinocyl (3), acetoprole [CCN], acrinathrin (9), aldicarb (16), aldoxycarb (863), alpha-cypermethrin (202), amidithion (870), amidoflumet [CCN], amidothioate (872), amiton (875), amiton hydrogen oxalate (875), amitraz (24), aramite (881), arsenous oxide (882), AVI 382 (compound code), AZ 60541 (compound code), azinphos-ethyl (44), azinphos-methyl (45), azobenzene (IUPAC name) (888), azocyclotin (46), azothoate (889), benomyl (62), benoxafos (alternative name) [CCN], benzoximate (71), benzyl benzoate (IUPAC name) [CCN], bifenazate (74), bifenthrin (76), binapacryl (907), brofenvalerate (alternative name), bromocyclen (918), bromophos (920), bromophos-ethyl (921), bromopropylate (94), buprofezin (99), butocarboxim (103), butoxycarboxim (104), butylpyridaben (alternative name), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbophenothion (947), CGA 50'439 (development code) (125), chinomethionat (126), chlorbenside (959), chlordimeform (964), chlordimeform hydrochloride (964), chlorfenapyr (130), chlorfenethol (968), chlorfenson (970), chlorfensulphide (971), chlorfenvinphos (131), chlorobenzilate (975), chloromebuform (977), chloromethiuron (978), chloropropylate (983), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), cinerin I (696), cinerin II (696), cinerins (696), clofentezine (158), closantel (alternative name) [CCN], coumaphos (174), crotamiton (alternative name) [CCN], crotoxyphos (1010),

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cufraneb (1013), cyanthoate (1020), cyhalothrin (196), cyhexatin (199), cypermethrin (201), DCPM (1032), DDT (219), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafen-thiuron (226), dialifos (1042), diazinon (227), dichlofluanid (230), dichlorvos (236), dicliphos (alternative name), dicofol (242), dicrotophos (243), dienochlor (1071), dimefox (1081), dimethoate (262), dinactin (alternative name) (653), dinex (1089), dinex-diclexine (1089), dinobuton (269), dinocap (270), dinocap-4 [CCN], dinocap-6 [CCN], dinocton (1090), dinopenton (1092), dinosulfon (1097), dinoterbon (1098), dioxathion (1102), diphenyl sulfone (IUPAC name) (1103), disulfiram (alternative name) [CCN], disulfoton (278), DNOC (282), dofenapyn (1113), doramectin (alternative name) [CCN], endosulfan (294), endothion (1121), EPN (297), eprinomectin (alternative name) [CCN], ethion (309), ethoate-methyl (1134), etoxazole (320), etrimfos (1142), fenazaflor (1147), fenazaquin (328), fenbutatin oxide (330), fenothiocarb (337), fenpropathrin (342), fenpyrad (alternative name), fenpyroximate (345), fenson (1157), fentrifanil (1161), fenvalerate (349), fipronil (354), fluacrypyrim (360), fluazuron (1166), flubenzimine (1167), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenoxuron (370), flumethrin (372), fluorbenside (1174), fluvalinate (1184), FMC 1137 (development code) (1185), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), gamma-HCH (430), glyodin (1205), halfenprox (424), heptenophos (432), hexadecyl cyclopropanecarboxylate (IUPAC/Chemical Abstracts name) (1216), hexythiazox (441), iodomethane (IUPAC name) (542), isocarbophos (alternative name) (473), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), lindane (430), lufenuron (490), malathion (492), malonoben (1254), mecarbarn (502), mephosfolan (1261), mesulfen (alternative name) [CCN], methacrifos (1266), methamidophos (527), methidathion (529), methiocarb (530), methomyl (531), methyl bromide (537), metolcarb (550), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naled (567), NC-184 (compound code), nifluridide (1309), nikkomycins (alternative name) [CCN], nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), omethoate (594), oxamyl (602), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), parathion (615), permethrin (626), petroleum oils (alternative name) (628), phenkapton (1330), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638),

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phosphamidon (639), phoxim (642), pirimiphos-methyl (652), polychloroterpenes (traditional name) (1347), polynactins (alternative name) (653), proclonol (1350), profenofos (662), promacyl (1354), propargite (671), propetamphos (673), propoxur (678), prothidathion (1360), prothoate (1362), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), quinalphos (711), quintiofos (1381), R-1492 (development code) (1382), RA-17 (development code) (1383), rotenone (722), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), sophamide (1402), spirodiclofen (738), spiromesifen (739), SSI-121 (development code) (1404), sulfiram (alternative name) [CCN], sulfluramid (750), sulfotep (753), sulfur (754), SZI-121 (development code) (757), tau-fluvalinate (398), tebufenpyrad (763), TEPP (1417), terbam (alternative name), tetrachlorvinphos (777), tetradifon (786), tetranactin (alternative name) (653), tetrasul (1425), thiafenox (alternative name), thiocarboxime (1431), thiofanox (800), thiometon (801), thioquinox (1436), thuringiensin (alternative name) [CCN], triamiphos (1441), triarathene (1443), triazophos (820), triazuron (alternative name), trichlorfon (824), trifenofos (1455), trinactin (alternative name) (653), vamidothion (847), vaniliprole [CCN] and YI-5302 (compound code),

an algicide selected from the group of substances consisting of bethoxazin [CCN], copper dioctanoate (IUPAC name) (170), copper sulfate (172), cybutryne [CCN], dichlone (1052), dichlorophen (232), endothal (295), fentin (347), hydrated lime [CCN], nabam (566), quinoclamine (714), quinonamid (1379), simazine (730), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

an anthelmintic selected from the group of substances consisting of abamectin (1), crufomate (1011), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ivermectin (alternative name) [CCN], milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], piperazine [CCN], selamectin (alternative name) [CCN], spinosad (737) and thiophanate (1435),

an avicide selected from the group of substances consisting of chloralose (127), endrin (1122), fenthion (346), pyridin-4-amine (IUPAC name) (23) and strychnine (745),

a bactericide selected from the group of substances consisting of 1-hydroxy-1*H*-pyridine-2-thione (IUPAC name) (1222), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), 8-hydroxyquinoline sulfate (446), bronopol (97), copper dioctanoate (IUPAC name) (170), copper hydroxide (IUPAC name) (169), cresol [CCN], dichlorophen (232), dipyrithione (1105), dodicin (1112), fenaminosulf (1144), formaldehyde (404),

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hydrargaphen (alternative name) [CCN], kasugamycin (483), kasugamycin hydrochloride hydrate (483), nickel bis(dimethyldithiocarbamate) (IUPAC name) (1308), nitrapyrin (580), octhlinone (590), oxolinic acid (606), oxytetracycline (611), potassium hydroxyquinoline sulfate (446), probenazole (658), streptomycin (744), streptomycin sesquisulfate (744), tecloftalam (766) and thiomersal (alternative name) [CCN],

a biological agent selected from the group of substances consisting of *Adoxophyes orana* GV (alternative name) (12), *Agrobacterium radiobacter* (alternative name) (13), *Amblyseius* spp. (alternative name) (19), *Anagrapha falcifera* NPV (alternative name) (28), *Anagrus atomus* (alternative name) (29), *Aphelinus abdominalis* (alternative name) (33), *Aphidius colemani* (alternative name) (34), *Aphidoletes aphidimyza* (alternative name) (35), *Autographa californica* NPV (alternative name) (38), *Bacillus firmus* (alternative name) (48), *Bacillus sphaericus* Neide (scientific name) (49), *Bacillus thuringiensis* Berliner (scientific name) (51), *Bacillus thuringiensis* subsp. *aizawai* (scientific name) (51), *Bacillus thuringiensis* subsp. *israelensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *japonensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *kurstaki* (scientific name) (51), *Bacillus thuringiensis* subsp. *tenebrionis* (scientific name) (51), *Beauveria bassiana* (alternative name) (53), *Beauveria brongniartii* (alternative name) (54), *Chrysoperla carnea* (alternative name) (151), *Cryptolaemus montrouzieri* (alternative name) (178), *Cydia pomonella* GV (alternative name) (191), *Dacnusa sibirica* (alternative name) (212), *Diglyphus isaea* (alternative name) (254), *Encarsia formosa* (scientific name) (293), *Eretmocerus eremicus* (alternative name) (300), *Helicoverpa zea* NPV (alternative name) (431), *Heterorhabditis bacteriophora* and *H. megidis* (alternative name) (433), *Hippodamia convergens* (alternative name) (442), *Leptomastix dactylopii* (alternative name) (488), *Macrolophus caliginosus* (alternative name) (491), *Mamestra brassicae* NPV (alternative name) (494), *Metaphycus helvolus* (alternative name) (522), *Metarhizium anisopliae* var. *acridum* (scientific name) (523), *Metarhizium anisopliae* var. *anisopliae* (scientific name) (523), *Neodiprion sertifer* NPV and *N. lecontei* NPV (alternative name) (575), *Orius* spp. (alternative name) (596), *Paecilomyces fumosoroseus* (alternative name) (613), *Phytoseiulus persimilis* (alternative name) (644), *Spodoptera exigua* multicapsid nuclear polyhedrosis virus (scientific name) (741), *Steinernema bibionis* (alternative name) (742), *Steinernema carpocapsae* (alternative name) (742), *Steinernema feltiae* (alternative name) (742), *Steinernema glaseri* (alternative name) (742), *Steinernema riobrave* (alternative name) (742), *Steinernema riobravus* (alternative name) (742), *Steinernema scapterisci* (alternative name) (742), *Steinernema* spp. (alternative name) (742), *Trichogramma* spp.

(alternative name) (826), *Typhlodromus occidentalis* (alternative name) (844) and *Verticillium lecanii* (alternative name) (848),

a soil sterilant selected from the group of substances consisting of iodomethane (IUPAC name) (542) and methyl bromide (537),

a chemosterilant selected from the group of substances consisting of apholate [CCN], bisazir (alternative name) [CCN], busulfan (alternative name) [CCN], diflubenzuron (250), dimatif (alternative name) [CCN], hemel [CCN], hempa [CCN], metepa [CCN], methiotepa [CCN], methyl apholate [CCN], morzid [CCN], penfluron (alternative name) [CCN], tepa [CCN], thiohempa (alternative name) [CCN], thiotepa (alternative name) [CCN], tretamine (alternative name) [CCN] and uredepa (alternative name) [CCN],

an insect pheromone selected from the group of substances consisting of (*E*)-dec-5-en-1-yl acetate with (*E*)-dec-5-en-1-ol (IUPAC name) (222), (*E*)-tridec-4-en-1-yl acetate (IUPAC name) (829), (*E*)-6-methylhept-2-en-4-ol (IUPAC name) (541), (*E,Z*)-tetradeca-4,10-dien-1-yl acetate (IUPAC name) (779), (*Z*)-dodec-7-en-1-yl acetate (IUPAC name) (285), (*Z*)-hexadec-11-enal (IUPAC name) (436), (*Z*)-hexadec-11-en-1-yl acetate (IUPAC name) (437), (*Z*)-hexadec-13-en-11-yn-1-yl acetate (IUPAC name) (438), (*Z*)-icos-13-en-10-one (IUPAC name) (448), (*Z*)-tetradec-7-en-1-al (IUPAC name) (782), (*Z*)-tetradec-9-en-1-ol (IUPAC name) (783), (*Z*)-tetradec-9-en-1-yl acetate (IUPAC name) (784), (*7E,9Z*)-dodeca-7,9-dien-1-yl acetate (IUPAC name) (283), (*9Z,11E*)-tetradeca-9,11-dien-1-yl acetate (IUPAC name) (780), (*9Z,12E*)-tetradeca-9,12-dien-1-yl acetate (IUPAC name) (781), 14-methyloctadec-1-ene (IUPAC name) (545), 4-methylnonan-5-ol with 4-methylnonan-5-one (IUPAC name) (544), alpha-multistriatin (alternative name) [CCN], brevicomin (alternative name) [CCN], codlelure (alternative name) [CCN], codlemone (alternative name) (167), cuelure (alternative name) (179), disparlure (277), dodec-8-en-1-yl acetate (IUPAC name) (286), dodec-9-en-1-yl acetate (IUPAC name) (287), dodeca-8,10-dien-1-yl acetate (IUPAC name) (284), dominicalure (alternative name) [CCN], ethyl 4-methyloctanoate (IUPAC name) (317), eugenol (alternative name) [CCN], frontalinal (alternative name) [CCN], gossyplure (alternative name) (420), grandlure (421), grandlure I (alternative name) (421), grandlure II (alternative name) (421), grandlure III (alternative name) (421), grandlure IV (alternative name) (421), hexalure [CCN], ipsdienol (alternative name) [CCN], ipsenol (alternative name) [CCN], japonilure (alternative name) (481), lineatin (alternative name) [CCN], litlure (alternative name) [CCN], looplure (alternative name) [CCN], medlure [CCN], megatomoic acid (alternative name) [CCN], methyl eugenol (alternative name) (540), muscalure (563), octadeca-2,13-dien-1-yl acetate (IUPAC name) (588), octadeca-3,13-dien-1-yl acetate

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(IUPAC name) (589), orfralure (alternative name) [CCN], oryctalure (alternative name) (317), ostramone (alternative name) [CCN], siglure [CCN], sordidin (alternative name) (736), sulcatol (alternative name) [CCN], tetradec-11-en-1-yl acetate (IUPAC name) (785), trimedlure (839), trimedlure A (alternative name) (839), trimedlure B₁ (alternative name) (839), trimedlure B₂ (alternative name) (839), trimedlure C (alternative name) (839) and trunc-call (alternative name) [CCN],

an insect repellent selected from the group of substances consisting of 2-(octylthio)-ethanol (IUPAC name) (591), butopyronoxyl (933), butoxy(polypropylene glycol) (936), dibutyl adipate (IUPAC name) (1046), dibutyl phthalate (1047), dibutyl succinate (IUPAC name) (1048), diethyltoluamide [CCN], dimethyl carbate [CCN], dimethyl phthalate [CCN], ethyl hexanediol (1137), hexamide [CCN], methoquin-butyl (1276), methylneodecanamide [CCN], oxamate [CCN] and picaridin [CCN],

an insecticide selected from the group of substances consisting of 1,1-dichloro-1-nitroethane (IUPAC/Chemical Abstracts name) (1058), 1,1-dichloro-2,2-bis(4-ethylphenyl)-ethane (IUPAC name) (1056), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1-bromo-2-chloroethane (IUPAC/Chemical Abstracts name) (916), 2,2,2-trichloro-1-(3,4-dichlorophenyl)ethyl acetate (IUPAC name) (1451), 2,2-dichlorovinyl 2-ethylsulfinylethyl methyl phosphate (IUPAC name) (1066), 2-(1,3-dithiolan-2-yl)phenyl dimethylcarbamate (IUPAC/Chemical Abstracts name) (1109), 2-(2-butoxyethoxy)ethyl thiocyanate (IUPAC/Chemical Abstracts name) (935), 2-(4,5-dimethyl-1,3-dioxolan-2-yl)phenyl methylcarbamate (IUPAC/Chemical Abstracts name) (1084), 2-(4-chloro-3,5-xylyloxy)ethanol (IUPAC name) (986), 2-chlorovinyl diethyl phosphate (IUPAC name) (984), 2-imidazolidone (IUPAC name) (1225), 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 2-methyl(prop-2-ynyl)aminophenyl methylcarbamate (IUPAC name) (1284), 2-thiocyanatoethyl laurate (IUPAC name) (1433), 3-bromo-1-chloroprop-1-ene (IUPAC name) (917), 3-methyl-1-phenylpyrazol-5-yl dimethylcarbamate (IUPAC name) (1283), 4-methyl(prop-2-ynyl)amino-3,5-xylyl methylcarbamate (IUPAC name) (1285), 5,5-dimethyl-3-oxocyclohex-1-enyl dimethylcarbamate (IUPAC name) (1085), abamectin (1), acephate (2), acetamiprid (4), acethion (alternative name) [CCN], acetoprole [CCN], acrinathrin (9), acrylonitrile (IUPAC name) (861), alanycarb (15), aldicarb (16), aldoxycarb (863), aldrin (864), allethrin (17), allosamidin (alternative name) [CCN], allyxycarb (866), alpha-cypermethrin (202), alpha-ecdysone (alternative name) [CCN], aluminium phosphide (640), amidithion (870), amidothioate (872), aminocarb (873), amiton (875), amiton hydrogen oxalate (875), amitraz (24), anabasine (877), athidathion (883), AVI

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382 (compound code), AZ 60541 (compound code), azadirachtin (alternative name) (41), azamethiphos (42), azinphos-ethyl (44), azinphos-methyl (45), azothoate (889), *Bacillus thuringiensis* delta endotoxins (alternative name) (52), barium hexafluorosilicate (alternative name) [CCN], barium polysulfide (IUPAC/Chemical Abstracts name) (892), barthrin [CCN], BAS 320 I (compound code), Bayer 22/190 (development code) (893), Bayer 22408 (development code) (894), bendiocarb (58), benfuracarb (60), bensultap (66), beta-cyfluthrin (194), beta-cypermethrin (203), bifenthrin (76), bioallethrin (78), bioallethrin S-cyclopentenyl isomer (alternative name) (79), bioethanomethrin [CCN], biopermethrin (908), bioresmethrin (80), bis(2-chloroethyl) ether (IUPAC name) (909), bistrifluron (83), borax (86), brofenvalerate (alternative name), bromfenvinfos (914), bromocyclen (918), bromo-DDT (alternative name) [CCN], bromophos (920), bromophos-ethyl (921), bufencarb (924), buprofezin (99), butacarb (926), butathiofos (927), butocarboxim (103), butonate (932), butoxycarboxim (104), butylpyridaben (alternative name), cadusafos (109), calcium arsenate [CCN], calcium cyanide (444), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbon disulfide (IUPAC/Chemical Abstracts name) (945), carbon tetrachloride (IUPAC name) (946), carbophenothion (947), carbosulfan (119), cartap (123), cartap hydrochloride (123), cevadine (alternative name) (725), chlorbicyclen (960), chlordane (128), chlordecone (963), chlordimeform (964), chlordimeform hydrochloride (964), chlorethoxyfos (129), chlorfenapyr (130), chlorfenvinphos (131), chlorfluazuron (132), chlormephos (136), chloroform [CCN], chloropicrin (141), chlorphoxim (989), chlorprazophos (990), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), chromafenozide (150), cinerin I (696), cinerin II (696), cinerins (696), cis-resmethrin (alternative name), cismethrin (80), clocythrins (alternative name), cloethocarb (999), closantel (alternative name) [CCN], clothianidin (165), copper acetoarsenite [CCN], copper arsenate [CCN], copper oleate [CCN], coumaphos (174), coumithoate (1006), crotamiton (alternative name) [CCN], crotoxyphos (1010), crufomate (1011), cryolite (alternative name) (177), CS 708 (development code) (1012), cyanofenphos (1019), cyanophos (184), cyanthoate (1020), cyclethrin [CCN], cycloprothrin (188), cyfluthrin (193), cyhalothrin (196), cypermethrin (201), cyphenothrin (206), cyromazine (209), cythioate (alternative name) [CCN], *d*-limonene (alternative name) [CCN], *d*-tetramethrin (alternative name) (788), DAEP (1031), dazomet (216), DDT (219), decarbofuran (1034), deltamethrin (223), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthiuron (226), dialifos

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(1042), diamidafos (1044), diazinon (227), dicapthon (1050), dichlofenthion (1051), dichlorvos (236), dicliphos (alternative name), dicresyl (alternative name) [CCN], dicrotophos (243), dicyclanil (244), dieldrin (1070), diethyl 5-methylpyrazol-3-yl phosphate (IUPAC name) (1076), diflubenzuron (250), dilor (alternative name) [CCN], dimefluthrin [CCN], dimefox (1081), dimetan (1085), dimethoate (262), dimethrin (1083), dimethylvinphos (265), dimetilan (1086), dinex (1089), dinex-diclexine (1089), dinoprop (1093), dinosam (1094), dinoseb (1095), dinotefuran (271), diofenolan (1099), dioxabenzofos (1100), dioxacarb (1101), dioxathion (1102), disulfoton (278), dithicrofos (1108), DNOC (282), doramectin (alternative name) [CCN], DSP (1115), ecdysterone (alternative name) [CCN], EI 1642 (development code) (1118), emamectin (291), emamectin benzoate (291), EMPC (1120), empenthrin (292), endosulfan (294), endothion (1121), endrin (1122), EPBP (1123), EPN (297), epofenonane (1124), eprinomectin (alternative name) [CCN], esfenvalerate (302), etaphos (alternative name) [CCN], ethiofencarb (308), ethion (309), ethiprole (310), ethoate-methyl (1134), ethoprophos (312), ethyl formate (IUPAC name) [CCN], ethyl-DDD (alternative name) (1056), ethylene dibromide (316), ethylene dichloride (chemical name) (1136), ethylene oxide [CCN], etofenprox (319), etrimfos (1142), EXD (1143), famphur (323), fenamiphos (326), fenazaflor (1147), fenchlorphos (1148), fenethacarb (1149), fenfluthrin (1150), fenitrothion (335), fenobucarb (336), fenoxacrim (1153), fenoxycarb (340), fenpirithrin (1155), fenpropathrin (342), fenpyrad (alternative name), fensulfothion (1158), fenthion (346), fenthion-ethyl [CCN], fenvalerate (349), fipronil (354), flonicamid (358), flucofuron (1168), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenerim [CCN], flufenoxuron (370), flufenprox (1171), flumethrin (372), fluvalinate (1184), FMC 1137 (development code) (1185), fonofos (1191), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), fosmethilan (1194), fospirate (1195), fosthiazate (408), fosthietan (1196), furathiocarb (412), furethrin (1200), gamma-cyhalothrin (197), gamma-HCH (430), guazatine (422), guazatine acetates (422), GY-81 (development code) (423), halfenprox (424), halofenozide (425), HCH (430), HEOD (1070), heptachlor (1211), heptenophos (432), heterophos [CCN], hexaflumuron (439), HHDN (864), hydramethylnon (443), hydrogen cyanide (444), hydroprene (445), hyquincarb (1223), imidacloprid (458), imiprothrin (460), indoxacarb (465), iodomethane (IUPAC name) (542), IPSP (1229), isazofos (1231), isobenzan (1232), isocarbophos (alternative name) (473), isodrin (1235), isofenphos (1236), isolane (1237), isoprocarb (472), isopropyl O-(methoxy-aminothiophosphoryl)salicylate (IUPAC name) (473), isoprothiolane (474), isothioate (1244), isoxathion (480), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696),

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jodfenphos (1248), juvenile hormone I (alternative name) [CCN], juvenile hormone II (alternative name) [CCN], juvenile hormone III (alternative name) [CCN], kelevan (1249), kinoprene (484), lambda-cyhalothrin (198), lead arsenate [CCN], leptophos (1250), lindane (430), lirimfos (1251), lufenuron (490), lythidathion (1253), *m*-cumenyl methylcarbamate (IUPAC name) (1014), magnesium phosphide (IUPAC name) (640), malathion (492), malonoben (1254), mazidox (1255), mecarbam (502), mecarphon (1258), menazon (1260), mephosfolan (1261), mercurous chloride (513), mesulfenfos (1263), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methacrifos (1266), methamidophos (527), methanesulfonyl fluoride (IUPAC/Chemical Abstracts name) (1268), methidathion (529), methiocarb (530), methocrotophos (1273), methomyl (531), methoprene (532), methoquin-butyl (1276), methothrin (alternative name) (533), methoxychlor (534), methoxyfenozide (535), methyl bromide (537), methyl isothiocyanate (543), methylchloroform (alternative name) [CCN], methylene chloride [CCN], metofluthrin [CCN], metolcarb (550), metoxadiazone (1288), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), mirex (1294), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naftalofos (alternative name) [CCN], naled (567), naphthalene (IUPAC/Chemical Abstracts name) (1303), NC-170 (development code) (1306), NC-184 (compound code), nicotine (578), nicotine sulfate (578), nifluridide (1309), nitenpyram (579), nithiazine (1311), nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), nornicotine (traditional name) (1319), novaluron (585), noviflumuron (586), *O*-2,5-dichloro-4-iodophenyl *O*-ethyl ethylphosphonothioate (IUPAC name) (1057), *O,O*-diethyl *O*-4-methyl-2-oxo-2*H*-chromen-7-yl phosphorothioate (IUPAC name) (1074), *O,O*-diethyl *O*-6-methyl-2-propylpyrimidin-4-yl phosphorothioate (IUPAC name) (1075), *O,O,O',O'*-tetrapropyl dithiopyrophosphate (IUPAC name) (1424), oleic acid (IUPAC name) (593), omethoate (594), oxamyl (602), oxydemeton-methyl (609), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), para-dichlorobenzene [CCN], parathion (615), parathion-methyl (616), penfluron (alternative name) [CCN], pentachlorophenol (623), pentachlorophenyl laurate (IUPAC name) (623), permethrin (626), petroleum oils (alternative name) (628), PH 60-38 (development code) (1328), phenkapton (1330), phenothrin (630), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosnichlor (1339), phosphamidon (639), phosphine (IUPAC name) (640), phoxim (642), phoxim-methyl (1340), pirimetaphos (1344), pirimicarb (651), pirimiphos-ethyl (1345), pirimiphos-methyl (652), polychlorodicyclopentadiene isomers (IUPAC name) (1346),

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polychloroterpenes (traditional name) (1347), potassium arsenite [CCN], potassium thiocyanate [CCN], prallethrin (655), precocene I (alternative name) [CCN], precocene II (alternative name) [CCN], precocene III (alternative name) [CCN], primidophos (1349), profenofos (662), profluthrin [CCN], promacyl (1354), promecarb (1355), propaphos (1356), propetamphos (673), propoxur (678), prothidathion (1360), prothiofos (686), prothoate (1362), protrifenbute [CCN], pymetrozine (688), pyraclofos (689), pyrazophos (693), pyresmethrin (1367), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridalyl (700), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), pyriproxyfen (708), quassia (alternative name) [CCN], quinalphos (711), quinalphos-methyl (1376), quinothion (1380), quintiofos (1381), R-1492 (development code) (1382), rafoxanide (alternative name) [CCN], resmethrin (719), rotenone (722), RU 15525 (development code) (723), RU 25475 (development code) (1386), ryania (alternative name) (1387), ryanodine (traditional name) (1387), sabadilla (alternative name) (725), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), silafluofen (728), SN 72129 (development code) (1397), sodium arsenite [CCN], sodium cyanide (444), sodium fluoride (IUPAC/Chemical Abstracts name) (1399), sodium hexafluorosilicate (1400), sodium pentachlorophenoxide (623), sodium selenate (IUPAC name) (1401), sodium thiocyanate [CCN], sophamide (1402), spinosad (737), spiromesifen (739), sulcofuron (746), sulcofuron-sodium (746), sulfluramid (750), sulfotep (753), sulfuryl fluoride (756), sulprofos (1408), tar oils (alternative name) (758), tau-fluvalinate (398), tazimcarb (1412), TDE (1414), tebufenozide (762), tebufenpyrad (763), tebupirimfos (764), teflubenzuron (768), tefluthrin (769), temephos (770), TEPP (1417), terallethrin (1418), terbam (alternative name), terbufos (773), tetrachloroethane [CCN], tetrachlorvinphos (777), tetramethrin (787), theta-cypermethrin (204), thiacloprid (791), thiafenox (alternative name), thiamethoxam (792), thicrofos (1428), thiocarboxime (1431), thiocyclam (798), thiocyclam hydrogen oxalate (798), thiodicarb (799), thiofanox (800), thiometon (801), thionazin (1434), thiosultap (803), thiosultap-sodium (803), thuringiensin (alternative name) [CCN], tolfenpyrad (809), tralomethrin (812), transfluthrin (813), transpermethrin (1440), triamiphos (1441), triazamate (818), triazophos (820), triazuron (alternative name), trichlorfon (824), trichlormetaphos-3 (alternative name) [CCN], trichloronat (1452), trifenofos (1455), triflumuron (835), trimethacarb (840), triprene (1459), vamidothion (847), vaniliprole [CCN], veratridine (alternative name) (725), veratrine (alternative name) (725), XMC (853), xylylcarb (854), YI-5302 (compound code), zeta-cypermethrin (205), zetamethrin (alternative name), zinc phosphide (640), zolaprofos (1469) and ZXI 8901 (development code) (858),

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a molluscicide selected from the group of substances consisting of bis(tributyltin) oxide (IUPAC name) (913), bromoacetamide [CCN], calcium arsenate [CCN], cloethocarb (999), copper acetoarsenite [CCN], copper sulfate (172), fentin (347), ferric phosphate (IUPAC name) (352), metaldehyde (518), methiocarb (530), niclosamide (576), niclosamide-olamine (576), pentachlorophenol (623), sodium pentachlorophenoxide (623), tazimcarb (1412), thiodicarb (799), tributyltin oxide (913), trifenmorph (1454), trimethacarb (840), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

a nematocide selected from the group of substances consisting of 1,2-dibromo-3-chloropropane (IUPAC/Chemical Abstracts name) (1045), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1,3-dichloropropene (233), 3,4-dichlorotetrahydrothiophene 1,1-dioxide (IUPAC/Chemical Abstracts name) (1065), 3-(4-chlorophenyl)-5-methylrhodanine (IUPAC name) (980), 5-methyl-6-thioxo-1,3,5-thiadiazinan-3-ylacetic acid (IUPAC name) (1286), 6-isopentenylaminopurine (alternative name) (210), abamectin (1), acetoprole [CCN], alanycarb (15), aldicarb (16), aldoxycarb (863), AZ 60541 (compound code), benclothiaz [CCN], benomyl (62), butylpyridaben (alternative name), cadusafos (109), carbofuran (118), carbon disulfide (945), carbosulfan (119), chloropicrin (141), chlorpyrifos (145), cloethocarb (999), cytokinins (alternative name) (210), dazomet (216), DBCP (1045), DCIP (218), diamidafos (1044), dichlofenthion (1051), dicliphos (alternative name), dimethoate (262), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ethoprophos (312), ethylene dibromide (316), fenamiphos (326), fenpyrad (alternative name), fensulfothion (1158), fosthiazate (408), fosthietan (1196), furfural (alternative name) [CCN], GY-81 (development code) (423), heterophos [CCN], iodomethane (IUPAC name) (542), isamidofos (1230), isazofos (1231), ivermectin (alternative name) [CCN], kinetin (alternative name) (210), mecarphon (1258), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methyl bromide (537), methyl isothiocyanate (543), milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], *Myrothecium verrucaria* composition (alternative name) (565), NC-184 (compound code), oxamyl (602), phorate (636), phosphamidon (639), phosphocarb [CCN], sebufos (alternative name), selamectin (alternative name) [CCN], spinosad (737), terbam (alternative name), terbufos (773), tetrachlorothiophene (IUPAC/Chemical Abstracts name) (1422), thiafenox (alternative name), thionazin (1434), triazophos (820), triazuron (alternative name), xlenols [CCN], YI-5302 (compound code) and zeatin (alternative name) (210),

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a nitrification inhibitor selected from the group of substances consisting of potassium ethylxanthate [CCN] and nitrapyrin (580),

a plant activator selected from the group of substances consisting of acibenzolar (6), acibenzolar-S-methyl (6), probenazole (658) and *Reynoutria sachalinensis* extract (alternative name) (720),

a rodenticide selected from the group of substances consisting of 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), alpha-chlorohydrin [CCN], aluminium phosphide (640), antu (880), arsenous oxide (882), barium carbonate (891), bisthiosemi (912), brodifacoum (89), bromadiolone (91), bromethalin (92), calcium cyanide (444), chloralose (127), chlorophacinone (140), cholecalciferol (alternative name) (850), coumachlor (1004), coumafuryl (1005), coumatetralyl (175), crimidine (1009), difenacoum (246), difethialone (249), diphacinone (273), ergocalciferol (301), flocoumafen (357), fluoroacetamide (379), flupropadine (1183), flupropadine hydrochloride (1183), gamma-HCH (430), HCH (430), hydrogen cyanide (444), iodomethane (IUPAC name) (542), lindane (430), magnesium phosphide (IUPAC name) (640), methyl bromide (537), norbormide (1318), phosacetim (1336), phosphine (IUPAC name) (640), phosphorus [CCN], pindone (1341), potassium arsenite [CCN], pyrinuron (1371), scilliroside (1390), sodium arsenite [CCN], sodium cyanide (444), sodium fluoroacetate (735), strychnine (745), thallium sulfate [CCN], warfarin (851) and zinc phosphide (640),

a synergist selected from the group of substances consisting of 2-(2-butoxyethoxy)-ethyl piperonylate (IUPAC name) (934), 5-(1,3-benzodioxol-5-yl)-3-hexylcyclohex-2-enone (IUPAC name) (903), farnesol with nerolidol (alternative name) (324), MB-599 (development code) (498), MGK 264 (development code) (296), piperonyl butoxide (649), piprotal (1343), propyl isomer (1358), S421 (development code) (724), sesamex (1393), sesasmolin (1394) and sulfoxide (1406),

an animal repellent selected from the group of substances consisting of anthraquinone (32), chloralose (127), copper naphthenate [CCN], copper oxychloride (171), diazinon (227), dicyclopentadiene (chemical name) (1069), guazatine (422), guazatine acetates (422), methiocarb (530), pyridin-4-amine (IUPAC name) (23), thiram (804), trimethacarb (840), zinc naphthenate [CCN] and ziram (856),

a virucide selected from the group of substances consisting of imanin (alternative name) [CCN] and ribavirin (alternative name) [CCN],

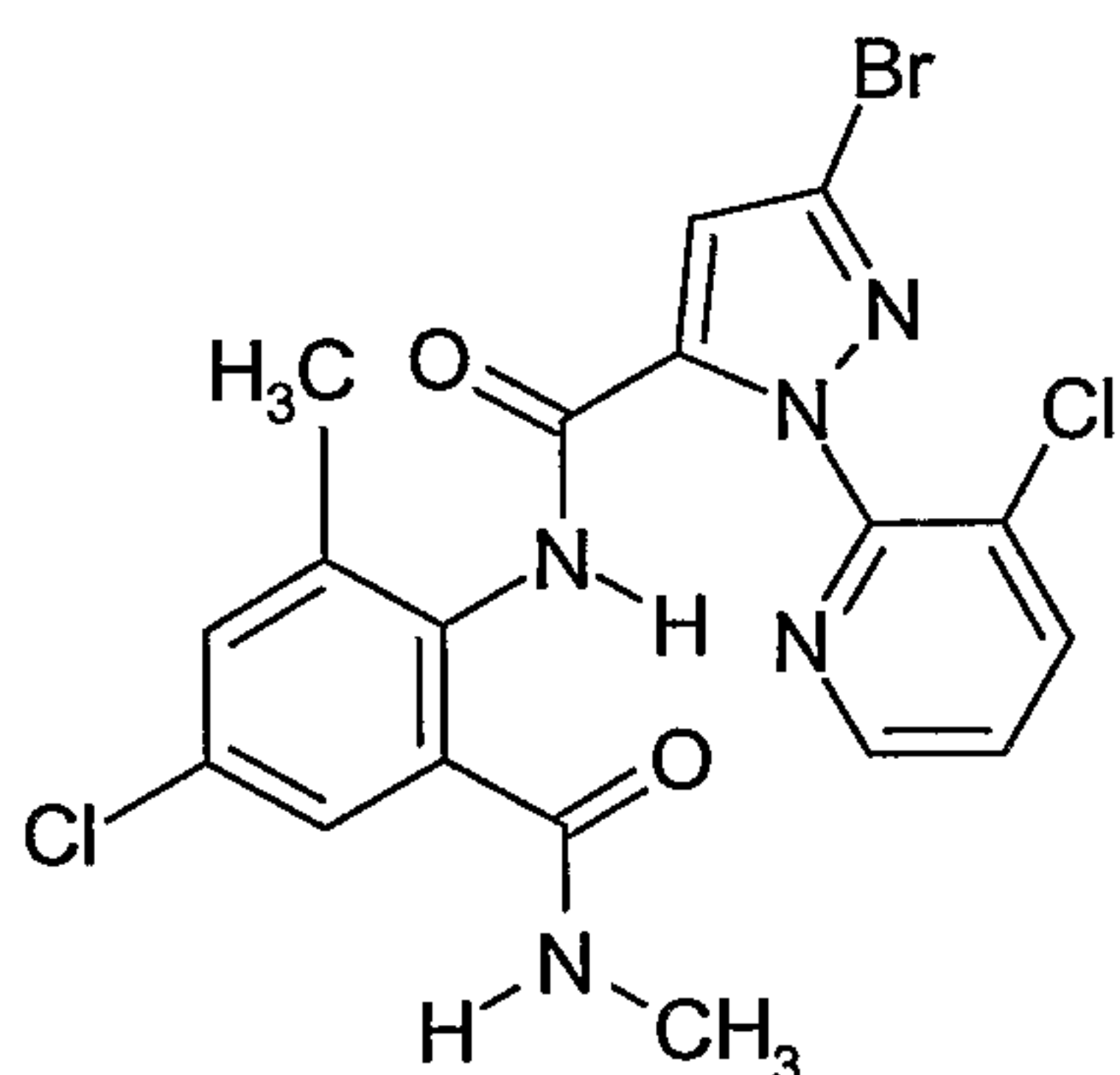
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and a wound protectant selected from the group of substances consisting of mercuric oxide (512), octhilinone (590) and thiophanate-methyl (802).

A very especially preferred embodiment of the subject-matter {1.1.9} of the invention is {1.1.9.2} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-9) and the compound (B) is a compound selected from the group of substances consisting of abamectin (1), cyromazine (209), diafenthiuron (226), diazinon (227), emamectin benzoate (291), fenoxycarb (340), fosthiazate (408), lambda-cyhalothrin (198), lufenuron (490), methidathion (529), profenofos (662), pymetrozine (688), tefluthrin (769) and thiamethoxam (792).

The compound of formula (A-9) is known, for example, from the PCT Application WO-03/015519.

A preferred embodiment of the subject-matter {1.1} of the invention is {1.1.10} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-10)



(A-10)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

An especially preferred embodiment of the subject-matter {1.1.10} of the invention is {1.1.10.1} a pesticidal composition comprising a mixture consisting of at least two

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substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-10) and the compound (B) is a compound selected from the group of substances consisting of

an adjuvant selected from the group of substances consisting of petroleum oils (alternative name) (628),

an acaricide selected from the group of substances consisting of 1,1-bis(4-chlorophenyl)-2-ethoxyethanol (IUPAC name) (910), 2,4-dichlorophenyl benzenesulfonate (IUPAC/Chemical Abstracts name) (1059), 2-fluoro-*N*-methyl-*N*-1-naphthylacetamide (IUPAC name) (1295), 4-chlorophenyl phenyl sulfone (IUPAC name) (981), abamectin (1), acequinocyl (3), acetoprole [CCN], acrinathrin (9), aldicarb (16), aldoxycarb (863), alpha-cypermethrin (202), amidithion (870), amidoflumet [CCN], amidothioate (872), amiton (875), amiton hydrogen oxalate (875), amitraz (24), aramite (881), arsenous oxide (882), AVI 382 (compound code), AZ 60541 (compound code), azinphos-ethyl (44), azinphos-methyl (45), azobenzene (IUPAC name) (888), azocyclotin (46), azothoate (889), benomyl (62), benoxafos (alternative name) [CCN], benzoximate (71), benzyl benzoate (IUPAC name) [CCN], bifenazate (74), bifenthrin (76), binapacryl (907), brofenvalerate (alternative name), bromocyclen (918), bromophos (920), bromophos-ethyl (921), bromopropylate (94), buprofezin (99), butocarboxim (103), butoxycarboxim (104), butylpyridaben (alternative name), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbophenothion (947), CGA 50'439 (development code) (125), chinomethionat (126), chlorbenside (959), chlordimeform (964), chlordimeform hydrochloride (964), chlorfenapyr (130), chlorfenethol (968), chlorfenson (970), chlorfensulphide (971), chlorfenvinphos (131), chlorobenzilate (975), chloromebuform (977), chloromethiuron (978), chloropropylate (983), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), cinerin I (696), cinerin II (696), cinerins (696), clofentezine (158), closantel (alternative name) [CCN], coumaphos (174), crotamiton (alternative name) [CCN], crotoxyphos (1010), cufraneb (1013), cyanthoate (1020), cyhalothrin (196), cyhexatin (199), cypermethrin (201), DCPM (1032), DDT (219), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthiuron (226), dialifos (1042), diazinon (227), dichlofluanid (230), dichlorvos (236), dicliphos (alternative name), dicofol (242), dicrotophos (243), dienochlor (1071), dimefox (1081), dimethoate (262), dinactin (alternative name) (653), dinex (1089), dinex-diclexine (1089), dinobuton (269), dinocap (270), dinocap-4 [CCN], dinocap-6 [CCN], dinocton (1090), dino-

penton (1092), dinosulfon (1097), dinoterbon (1098), dioxathion (1102), diphenyl sulfone (IUPAC name) (1103), disulfiram (alternative name) [CCN], disulfoton (278), DNOC (282), dofenapyn (1113), doramectin (alternative name) [CCN], endosulfan (294), endothion (1121), EPN (297), eprinomectin (alternative name) [CCN], ethion (309), ethoate-methyl (1134), etoxazole (320), etrimfos (1142), fenazaflor (1147), fenazaquin (328), fenbutatin oxide (330), fenothiocarb (337), fenpropathrin (342), fenpyrad (alternative name), fenpyroximate (345), fenson (1157), fentrifanil (1161), fenvalerate (349), fipronil (354), fluacrypyrim (360), fluazuron (1166), flubenzimine (1167), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenoxuron (370), flumethrin (372), fluorbenside (1174), fluvalinate (1184), FMC 1137 (development code) (1185), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), gamma-HCH (430), glyodin (1205), halfenprox (424), heptenophos (432), hexadecyl cyclopropanecarboxylate (IUPAC/Chemical Abstracts name) (1216), hexythiazox (441), iodomethane (IUPAC name) (542), isocarbophos (alternative name) (473), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), lindane (430), lufenuron (490), malathion (492), malonoben (1254), mecarbam (502), mephosfolan (1261), mesulfen (alternative name) [CCN], methacrifos (1266), methamidophos (527), methidathion (529), methiocarb (530), methomyl (531), methyl bromide (537), metolcarb (550), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naled (567), NC-184 (compound code), nifluridide (1309), nikkomycins (alternative name) [CCN], nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), omethoate (594), oxamyl (602), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), parathion (615), permethrin (626), petroleum oils (alternative name) (628), phenkapton (1330), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosphamidon (639), phoxim (642), pirimiphos-methyl (652), polychloroterpenes (traditional name) (1347), polynactins (alternative name) (653), proclonol (1350), profenofos (662), promacyl (1354), propargite (671), propetamphos (673), propoxur (678), prothidathion (1360), prothoate (1362), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), quinalphos (711), quintiofos (1381), R-1492 (development code) (1382), RA-17 (development code) (1383), rotenone (722), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), sophamide (1402), spirodiclofen (738), spiromesifen

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(739), SSI-121 (development code) (1404), sulfiram (alternative name) [CCN], sulfluramid (750), sulfotep (753), sulfur (754), SZI-121 (development code) (757), tau-fluvalinate (398), tebufenpyrad (763), TEPP (1417), terbam (alternative name), tetrachlorvinphos (777), tetradifon (786), tetranactin (alternative name) (653), tetrasul (1425), thiafenox (alternative name), thiocarboxime (1431), thiofanox (800), thiometon (801), thioquinox (1436), thuringiensin (alternative name) [CCN], triamiphos (1441), triarathene (1443), triazophos (820), triazuron (alternative name), trichlorfon (824), trifenofos (1455), trinactin (alternative name) (653), vamidothion (847), vanilprole [CCN] and YI-5302 (compound code),

an algicide selected from the group of substances consisting of bethoxazin [CCN], copper dioctanoate (IUPAC name) (170), copper sulfate (172), cybutryne [CCN], dichlone (1052), dichlorophen (232), endothal (295), fentin (347), hydrated lime [CCN], nabam (566), quinoclamine (714), quinonamid (1379), simazine (730), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

an anthelmintic selected from the group of substances consisting of abamectin (1), crufomate (1011), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ivermectin (alternative name) [CCN], milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], piperazine [CCN], selamectin (alternative name) [CCN], spinosad (737) and thiophanate (1435),

an avicide selected from the group of substances consisting of chloralose (127), endrin (1122), fenthion (346), pyridin-4-amine (IUPAC name) (23) and strychnine (745),

a bactericide selected from the group of substances consisting of 1-hydroxy-1*H*-pyridine-2-thione (IUPAC name) (1222), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), 8-hydroxyquinoline sulfate (446), bronopol (97), copper dioctanoate (IUPAC name) (170), copper hydroxide (IUPAC name) (169), cresol [CCN], dichlorophen (232), dipyrithione (1105), dodicin (1112), fenaminosulf (1144), formaldehyde (404), hydrargaphen (alternative name) [CCN], kasugamycin (483), kasugamycin hydrochloride hydrate (483), nickel bis(dimethyldithiocarbamate) (IUPAC name) (1308), nitrapyrin (580), oclothilone (590), oxolinic acid (606), oxytetracycline (611), potassium hydroxyquinoline sulfate (446), probenazole (658), streptomycin (744), streptomycin sesquisulfate (744), tecloftalam (766) and thiomersal (alternative name) [CCN],

a biological agent selected from the group of substances consisting of *Adoxophyes orana* GV (alternative name) (12), *Agrobacterium radiobacter* (alternative name) (13), *Amblyseius* spp. (alternative name) (19), *Anagrapta falcifera* NPV (alternative name) (28),

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Anagrus atomus (alternative name) (29), *Aphelinus abdominalis* (alternative name) (33), *Aphidius colemani* (alternative name) (34), *Aphidoletes aphidimyza* (alternative name) (35), *Autographa californica* NPV (alternative name) (38), *Bacillus firmus* (alternative name) (48), *Bacillus sphaericus* Neide (scientific name) (49), *Bacillus thuringiensis* Berliner (scientific name) (51), *Bacillus thuringiensis* subsp. *aizawai* (scientific name) (51), *Bacillus thuringiensis* subsp. *israelensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *japonensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *kurstaki* (scientific name) (51), *Bacillus thuringiensis* subsp. *tenebrionis* (scientific name) (51), *Beauveria bassiana* (alternative name) (53), *Beauveria brongniartii* (alternative name) (54), *Chrysoperla carnea* (alternative name) (151), *Cryptolaemus montrouzieri* (alternative name) (178), *Cydia pomonella* GV (alternative name) (191), *Dacnusa sibirica* (alternative name) (212), *Diglyphus isaea* (alternative name) (254), *Encarsia formosa* (scientific name) (293), *Eretmocerus eremicus* (alternative name) (300), *Helicoverpa zea* NPV (alternative name) (431), *Heterorhabditis bacteriophora* and *H. megidis* (alternative name) (433), *Hippodamia convergens* (alternative name) (442), *Leptomastix dactylopii* (alternative name) (488), *Macrolophus caliginosus* (alternative name) (491), *Mamestra brassicae* NPV (alternative name) (494), *Metaphycus helvolus* (alternative name) (522), *Metarhizium anisopliae* var. *acridum* (scientific name) (523), *Metarhizium anisopliae* var. *anisopliae* (scientific name) (523), *Neodiprion sertifer* NPV and *N. lecontei* NPV (alternative name) (575), *Orius* spp. (alternative name) (596), *Paecilomyces fumosoroseus* (alternative name) (613), *Phytoseiulus persimilis* (alternative name) (644), *Spodoptera exigua* multicapsid nuclear polyhedrosis virus (scientific name) (741), *Steinernema bibionis* (alternative name) (742), *Steinernema carpocapsae* (alternative name) (742), *Steinernema feltiae* (alternative name) (742), *Steinernema glaseri* (alternative name) (742), *Steinernema riobrave* (alternative name) (742), *Steinernema riobravus* (alternative name) (742), *Steinernema scapterisci* (alternative name) (742), *Steinernema* spp. (alternative name) (742), *Trichogramma* spp. (alternative name) (826), *Typhlodromus occidentalis* (alternative name) (844) and *Verticillium lecanii* (alternative name) (848),

a soil sterilant selected from the group of substances consisting of iodomethane (IUPAC name) (542) and methyl bromide (537),

a chemosterilant selected from the group of substances consisting of apholate [CCN], bisazir (alternative name) [CCN], busulfan (alternative name) [CCN], diflubenzuron (250), dimatif (alternative name) [CCN], hemel [CCN], hempa [CCN], metepa [CCN], methiotepa [CCN], methyl apholate [CCN], morzid [CCN], penfluron (alternative name) [CCN], tepa

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[CCN], thiohempa (alternative name) [CCN], thiotepa (alternative name) [CCN], tretamine (alternative name) [CCN] and uredepa (alternative name) [CCN],

an insect pheromone selected from the group of substances consisting of (*E*)-dec-5-en-1-yl acetate with (*E*)-dec-5-en-1-ol (IUPAC name) (222), (*E*)-tridec-4-en-1-yl acetate (IUPAC name) (829), (*E*)-6-methylhept-2-en-4-ol (IUPAC name) (541), (*E,Z*)-tetradeca-4,10-dien-1-yl acetate (IUPAC name) (779), (*Z*)-dodec-7-en-1-yl acetate (IUPAC name) (285), (*Z*)-hexadec-11-enal (IUPAC name) (436), (*Z*)-hexadec-11-en-1-yl acetate (IUPAC name) (437), (*Z*)-hexadec-13-en-11-yn-1-yl acetate (IUPAC name) (438), (*Z*)-icos-13-en-10-one (IUPAC name) (448), (*Z*)-tetradec-7-en-1-ol (IUPAC name) (782), (*Z*)-tetradec-9-en-1-ol (IUPAC name) (783), (*Z*)-tetradec-9-en-1-yl acetate (IUPAC name) (784), (*7E,9Z*)-dodeca-7,9-dien-1-yl acetate (IUPAC name) (283), (*9Z,11E*)-tetradeca-9,11-dien-1-yl acetate (IUPAC name) (780), (*9Z,12E*)-tetradeca-9,12-dien-1-yl acetate (IUPAC name) (781), 14-methyloctadec-1-ene (IUPAC name) (545), 4-methylnonan-5-ol with 4-methylnonan-5-one (IUPAC name) (544), alpha-multistriatin (alternative name) [CCN], brevicomin (alternative name) [CCN], codlelure (alternative name) [CCN], codlemone (alternative name) (167), cuelure (alternative name) (179), disparlure (277), dodec-8-en-1-yl acetate (IUPAC name) (286), dodec-9-en-1-yl acetate (IUPAC name) (287), dodeca-8,10-dien-1-yl acetate (IUPAC name) (284), dominicalure (alternative name) [CCN], ethyl 4-methyloctanoate (IUPAC name) (317), eugenol (alternative name) [CCN], frontalinal (alternative name) [CCN], gossyplure (alternative name) (420), grandlure (421), grandlure I (alternative name) (421), grandlure II (alternative name) (421), grandlure III (alternative name) (421), grandlure IV (alternative name) (421), hexalure [CCN], ipsdienol (alternative name) [CCN], ipsenol (alternative name) [CCN], japonilure (alternative name) (481), lineatin (alternative name) [CCN], litlure (alternative name) [CCN], looplure (alternative name) [CCN], medlure [CCN], megatomoic acid (alternative name) [CCN], methyl eugenol (alternative name) (540), muscalure (563), octadeca-2,13-dien-1-yl acetate (IUPAC name) (588), octadeca-3,13-dien-1-yl acetate (IUPAC name) (589), orfralure (alternative name) [CCN], oryctalure (alternative name) (317), ostramone (alternative name) [CCN], siglure [CCN], sordidin (alternative name) (736), sulcatol (alternative name) [CCN], tetradec-11-en-1-yl acetate (IUPAC name) (785), trimedlure (839), trimedlure A (alternative name) (839), trimedlure B₁ (alternative name) (839), trimedlure B₂ (alternative name) (839), trimedlure C (alternative name) (839) and trunc-call (alternative name) [CCN],

an insect repellent selected from the group of substances consisting of 2-(octylthio)-ethanol (IUPAC name) (591), butopyronoxyl (933), butoxy(polypropylene glycol) (936),

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dibutyl adipate (IUPAC name) (1046), dibutyl phthalate (1047), dibutyl succinate (IUPAC name) (1048), diethyltoluamide [CCN], dimethyl carbate [CCN], dimethyl phthalate [CCN], ethyl hexanediol (1137), hexamide [CCN], methoquin-butyl (1276), methylneodecanamide [CCN], oxamate [CCN] and picaridin [CCN],

an insecticide selected from the group of substances consisting of 1,1-dichloro-1-nitroethane (IUPAC/Chemical Abstracts name) (1058), 1,1-dichloro-2,2-bis(4-ethylphenyl)ethane (IUPAC name) (1056), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1-bromo-2-chloroethane (IUPAC/Chemical Abstracts name) (916), 2,2,2-trichloro-1-(3,4-dichlorophenyl)ethyl acetate (IUPAC name) (1451), 2,2-dichlorovinyl 2-ethylsulfinylethyl methyl phosphate (IUPAC name) (1066), 2-(1,3-dithiolan-2-yl)phenyl dimethylcarbamate (IUPAC/Chemical Abstracts name) (1109), 2-(2-butoxyethoxy)ethyl thiocyanate (IUPAC/Chemical Abstracts name) (935), 2-(4,5-dimethyl-1,3-dioxolan-2-yl)phenyl methylcarbamate (IUPAC/Chemical Abstracts name) (1084), 2-(4-chloro-3,5-xylyloxy)ethanol (IUPAC name) (986), 2-chlorovinyl diethyl phosphate (IUPAC name) (984), 2-imidazolidone (IUPAC name) (1225), 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 2-methyl(prop-2-ynyl)aminophenyl methylcarbamate (IUPAC name) (1284), 2-thiocyanatoethyl laurate (IUPAC name) (1433), 3-bromo-1-chloroprop-1-ene (IUPAC name) (917), 3-methyl-1-phenylpyrazol-5-yl dimethylcarbamate (IUPAC name) (1283), 4-methyl(prop-2-ynyl)amino-3,5-xylyl methylcarbamate (IUPAC name) (1285), 5,5-dimethyl-3-oxocyclohex-1-enyl dimethylcarbamate (IUPAC name) (1085), abamectin (1), acephate (2), acetamiprid (4), acethion (alternative name) [CCN], acetoprole [CCN], acrinathrin (9), acrylonitrile (IUPAC name) (861), alanycarb (15), aldicarb (16), aldoxycarb (863), aldrin (864), allethrin (17), allosamidin (alternative name) [CCN], allyxycarb (866), alpha-cypermethrin (202), alpha-ecdysone (alternative name) [CCN], aluminium phosphide (640), amidithion (870), amidothioate (872), aminocarb (873), amiton (875), amiton hydrogen oxalate (875), amitraz (24), anabasine (877), athidathion (883), AVI 382 (compound code), AZ 60541 (compound code), azadirachtin (alternative name) (41), azamethiphos (42), azinphos-ethyl (44), azinphos-methyl (45), azothoate (889), *Bacillus thuringiensis* delta endotoxins (alternative name) (52), barium hexafluorosilicate (alternative name) [CCN], barium polysulfide (IUPAC/Chemical Abstracts name) (892), barthrin [CCN], BAS 320 I (compound code), Bayer 22/190 (development code) (893), Bayer 22408 (development code) (894), bendiocarb (58), benfuracarb (60), bensultap (66), beta-cyfluthrin (194), beta-cypermethrin (203), bifenthrin (76), bioallethrin (78), bioallethrin S-cyclopentenyl isomer (alternative name) (79), bioethanomethrin [CCN], biopermethrin (908), bioresmethrin

(80), bis(2-chloroethyl) ether (IUPAC name) (909), bistrifluron (83), borax (86), brofenvalerate (alternative name), bromfeninfos (914), bromocyclen (918), bromo-DDT (alternative name) [CCN], bromophos (920), bromophos-ethyl (921), bufencarb (924), buprofezin (99), butacarb (926), butathiofos (927), butocarboxim (103), butonate (932), butoxycarboxim (104), butylpyridaben (alternative name), cadusafos (109), calcium arsenate [CCN], calcium cyanide (444), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbon disulfide (IUPAC/Chemical Abstracts name) (945), carbon tetrachloride (IUPAC name) (946), carbophenothion (947), carbosulfan (119), cartap (123), cartap hydrochloride (123), cevadine (alternative name) (725), chlorbicyclen (960), chlordane (128), chlordecone (963), chlordimeform (964), chlordimeform hydrochloride (964), chlorethoxyfos (129), chlorfenapyr (130), chlorfenvinphos (131), chlorfluazuron (132), chlormephos (136), chloroform [CCN], chloropicrin (141), chlorphoxim (989), chlorprazophos (990), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), chromafenozide (150), cinerin I (696), cinerin II (696), cinerins (696), cis-resmethrin (alternative name), cismethrin (80), clocythrin (alternative name), cloethocarb (999), closantel (alternative name) [CCN], clothianidin (165), copper acetoarsenite [CCN], copper arsenate [CCN], copper oleate [CCN], coumaphos (174), coumithoate (1006), crotamiton (alternative name) [CCN], crotoxyphos (1010), crufomate (1011), cryolite (alternative name) (177), CS 708 (development code) (1012), cyanofenphos (1019), cyanophos (184), cyanthoate (1020), cyclethrin [CCN], cycloprothrin (188), cyfluthrin (193), cyhalothrin (196), cypermethrin (201), cyphenothrin (206), cyromazine (209), cythioate (alternative name) [CCN], *d*-limonene (alternative name) [CCN], *d*-tetramethrin (alternative name) (788), DAEP (1031), dazomet (216), DDT (219), decarbofuran (1034), deltamethrin (223), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthiuron (226), dialifos (1042), diamidafos (1044), diazinon (227), dicapthon (1050), dichlofenthion (1051), dichlorvos (236), dicliphos (alternative name), dicresyl (alternative name) [CCN], dicrotophos (243), dicyclanil (244), dieldrin (1070), diethyl 5-methylpyrazol-3-yl phosphate (IUPAC name) (1076), diflubenzuron (250), dilor (alternative name) [CCN], dimefluthrin [CCN], dimefox (1081), dimetan (1085), dimethoate (262), dimethrin (1083), dimethylvinphos (265), dimetilan (1086), dinex (1089), dinex-diclexine (1089), dinoprop (1093), dinosam (1094), dinoseb (1095), dinotefuran (271), diofenolan (1099), dioxabenzofos (1100), dioxacarb (1101), dioxathion (1102), disulfoton (278), dithicrofos (1108), DNOC (282), doramectin (alternative

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name) [CCN], DSP (1115), ecdysterone (alternative name) [CCN], EI 1642 (development code) (1118), emamectin (291), emamectin benzoate (291), EMPC (1120), empenthrin (292), endosulfan (294), endothion (1121), endrin (1122), EPBP (1123), EPN (297), epofenonane (1124), eprinomectin (alternative name) [CCN], esfenvalerate (302), etaphos (alternative name) [CCN], ethiofencarb (308), ethion (309), ethiprole (310), ethoate-methyl (1134), ethoprophos (312), ethyl formate (IUPAC name) [CCN], ethyl-DDD (alternative name) (1056), ethylene dibromide (316), ethylene dichloride (chemical name) (1136), ethylene oxide [CCN], etofenprox (319), etrimfos (1142), EXD (1143), famphur (323), fenamiphos (326), fenazaflor (1147), fenchlorphos (1148), fenethacarb (1149), fenfluthrin (1150), fenitrothion (335), fenobucarb (336), fenoxacrim (1153), fenoxycarb (340), fenpirithrin (1155), fenpropathrin (342), fenpyrad (alternative name), fensulfothion (1158), fenthion (346), fenthion-ethyl [CCN], fenvalerate (349), fipronil (354), flonicamid (358), flucofuron (1168), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenerim [CCN], flufenoxuron (370), flufenprox (1171), flumethrin (372), fluvalinate (1184), FMC 1137 (development code) (1185), fonofos (1191), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), fosmethilan (1194), fospirate (1195), fosthiazate (408), fosthietan (1196), furathiocarb (412), furethrin (1200), gamma-cyhalothrin (197), gamma-HCH (430), guazatine (422), guazatine acetates (422), GY-81 (development code) (423), halfenprox (424), halofenozide (425), HCH (430), HEOD (1070), heptachlor (1211), heptenophos (432), heterophos [CCN], hexaflumuron (439), HHDN (864), hydramethylnon (443), hydrogen cyanide (444), hydroprene (445), hyquincarb (1223), imidacloprid (458), imiprothrin (460), indoxacarb (465), iodomethane (IUPAC name) (542), IPSP (1229), isazofos (1231), isobenzan (1232), isocarbophos (alternative name) (473), isodrin (1235), isofenphos (1236), isolane (1237), isoprocab (472), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), isoprothiolane (474), isothioate (1244), isoxathion (480), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), juvenile hormone I (alternative name) [CCN], juvenile hormone II (alternative name) [CCN], juvenile hormone III (alternative name) [CCN], kelevan (1249), kinoprene (484), lambda-cyhalothrin (198), lead arsenate [CCN], leptophos (1250), lindane (430), lirimfos (1251), lufenuron (490), lythidathion (1253), *m*-cumenyl methylcarbamate (IUPAC name) (1014), magnesium phosphide (IUPAC name) (640), malathion (492), malonoben (1254), mazidox (1255), mecarbam (502), mecarphon (1258), menazon (1260), mephosfolan (1261), mercurous chloride (513), mesulfenfos (1263), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methacrifos (1266),

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methamidophos (527), methanesulfonyl fluoride (IUPAC/Chemical Abstracts name) (1268), methidathion (529), methiocarb (530), methocrotophos (1273), methomyl (531), methoprene (532), methoquin-butyl (1276), methothrin (alternative name) (533), methoxychlor (534), methoxyfenozide (535), methyl bromide (537), methyl isothiocyanate (543), methylchloroform (alternative name) [CCN], methylene chloride [CCN], metofluthrin [CCN], metolcarb (550), metoxadiazone (1288), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), mirex (1294), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naftalofos (alternative name) [CCN], naled (567), naphthalene (IUPAC/Chemical Abstracts name) (1303), NC-170 (development code) (1306), NC-184 (compound code), nicotine (578), nicotine sulfate (578), nifluridide (1309), nitenpyram (579), nithiazine (1311), nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), nornicotine (traditional name) (1319), novaluron (585), noviflumuron (586), O-2,5-dichloro-4-iodophenyl O-ethyl ethylphosphonothioate (IUPAC name) (1057), O,O-diethyl O-4-methyl-2-oxo-2*H*-chromen-7-yl phosphorothioate (IUPAC name) (1074), O,O-diethyl O-6-methyl-2-propylpyrimidin-4-yl phosphorothioate (IUPAC name) (1075), O,O,O',O'-tetrapropyl dithiopyrophosphate (IUPAC name) (1424), oleic acid (IUPAC name) (593), omethoate (594), oxamyl (602), oxydemeton-methyl (609), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), para-dichlorobenzene [CCN], parathion (615), parathion-methyl (616), penfluron (alternative name) [CCN], pentachlorophenol (623), pentachlorophenyl laurate (IUPAC name) (623), permethrin (626), petroleum oils (alternative name) (628), PH 60-38 (development code) (1328), phenkapton (1330), phenothrin (630), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosnichlor (1339), phosphamidon (639), phosphine (IUPAC name) (640), phoxim (642), phoxim-methyl (1340), pirimetaphos (1344), pirimicarb (651), pirimiphos-ethyl (1345), pirimiphos-methyl (652), polychlorodicyclopentadiene isomers (IUPAC name) (1346), polychloroterpenes (traditional name) (1347), potassium arsenite [CCN], potassium thiocyanate [CCN], prallethrin (655), precocene I (alternative name) [CCN], precocene II (alternative name) [CCN], precocene III (alternative name) [CCN], primidophos (1349), profenofos (662), profluthrin [CCN], promacyl (1354), promecarb (1355), propaphos (1356), propetamphos (673), propoxur (678), prothidathion (1360), prothiofos (686), prothoate (1362), protrifenbute [CCN], pymetrozine (688), pyraclofos (689), pyrazophos (693), pyresmethrin (1367), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridalyl (700), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), pyriproxyfen

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(708), quassia (alternative name) [CCN], quinalphos (711), quinalphos-methyl (1376), quinothion (1380), quintofos (1381), R-1492 (development code) (1382), rafoxanide (alternative name) [CCN], resmethrin (719), rotenone (722), RU 15525 (development code) (723), RU 25475 (development code) (1386), ryania (alternative name) (1387), ryanodine (traditional name) (1387), sabadilla (alternative name) (725), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), silafluofen (728), SN 72129 (development code) (1397), sodium arsenite [CCN], sodium cyanide (444), sodium fluoride (IUPAC/Chemical Abstracts name) (1399), sodium hexafluorosilicate (1400), sodium pentachlorophenoxide (623), sodium selenate (IUPAC name) (1401), sodium thiocyanate [CCN], sophamide (1402), spinosad (737), spiromesifen (739), sulcofuron (746), sulcofuron-sodium (746), sulfluramid (750), sulfotep (753), sulfuryl fluoride (756), sulprofos (1408), tar oils (alternative name) (758), tau-fluvalinate (398), tazimcarb (1412), TDE (1414), tebufenozide (762), tebufenpyrad (763), tebupirimfos (764), teflubenzuron (768), tefluthrin (769), temephos (770), TEPP (1417), terallethrin (1418), terbam (alternative name), terbufos (773), tetrachloroethane [CCN], tetrachlorvinphos (777), tetramethrin (787), theta-cypermethrin (204), thiacloprid (791), thiafenox (alternative name), thiamethoxam (792), thicrofos (1428), thiocarboxime (1431), thiocyclam (798), thiocyclam hydrogen oxalate (798), thiodicarb (799), thiofanox (800), thiometon (801), thionazin (1434), thiosultap (803), thiosultap-sodium (803), thuringiensin (alternative name) [CCN], tolfenpyrad (809), tralomethrin (812), transfluthrin (813), transpermethrin (1440), triamiphos (1441), triazamate (818), triazophos (820), triazuron (alternative name), trichlorfon (824), trichlormetaphos-3 (alternative name) [CCN], trichloronat (1452), trifenofos (1455), triflumuron (835), trimethacarb (840), triprene (1459), vamidothion (847), vaniliprole [CCN], veratridine (alternative name) (725), veratrine (alternative name) (725), XMC (853), xylylcarb (854), YI-5302 (compound code), zeta-cypermethrin (205), zetamethrin (alternative name), zinc phosphide (640), zolaprofos (1469) and ZXI 8901 (development code) (858),

a molluscicide selected from the group of substances consisting of bis(tributyltin) oxide (IUPAC name) (913), bromoacetamide [CCN], calcium arsenate [CCN], cloethocarb (999), copper acetoarsenite [CCN], copper sulfate (172), fentin (347), ferric phosphate (IUPAC name) (352), metaldehyde (518), methiocarb (530), niclosamide (576), niclosamide-olamine (576), pentachlorophenol (623), sodium pentachlorophenoxide (623), tazimcarb (1412), thiodicarb (799), tributyltin oxide (913), trifenmorph (1454), trimethacarb (840), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

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a nematicide selected from the group of substances consisting of 1,2-dibromo-3-chloropropane (IUPAC/Chemical Abstracts name) (1045), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1,3-dichloropropene (233), 3,4-dichlorotetrahydrothiophene 1,1-dioxide (IUPAC/Chemical Abstracts name) (1065), 3-(4-chlorophenyl)-5-methylrhodanine (IUPAC name) (980), 5-methyl-6-thioxo-1,3,5-thiadiazinan-3-ylacetic acid (IUPAC name) (1286), 6-isopentenylaminopurine (alternative name) (210), abamectin (1), acetoprole [CCN], alanycarb (15), aldicarb (16), aldoxycarb (863), AZ 60541 (compound code), benclothiaz [CCN], benomyl (62), butylpyridaben (alternative name), cadusafos (109), carbofuran (118), carbon disulfide (945), carbosulfan (119), chloropicrin (141), chlorpyrifos (145), cloethocarb (999), cytokinins (alternative name) (210), dazomet (216), DBCP (1045), DCIP (218), diamidafos (1044), dichlofenthion (1051), dicliphos (alternative name), dimethoate (262), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ethoprophos (312), ethylene dibromide (316), fenamiphos (326), fenpyrad (alternative name), fensulfothion (1158), fosthiazate (408), fosthietan (1196), furfural (alternative name) [CCN], GY-81 (development code) (423), heterophos [CCN], iodomethane (IUPAC name) (542), isamidofos (1230), isazofos (1231), ivermectin (alternative name) [CCN], kinetin (alternative name) (210), mecarphon (1258), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methyl bromide (537), methyl isothiocyanate (543), milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], *Myrothecium verrucaria* composition (alternative name) (565), NC-184 (compound code), oxamyl (602), phorate (636), phosphamidon (639), phosphocarb [CCN], sebufos (alternative name), selamectin (alternative name) [CCN], spinosad (737), terbam (alternative name), terbufos (773), tetrachlorothiophene (IUPAC/Chemical Abstracts name) (1422), thiafenox (alternative name), thionazin (1434), triazophos (820), triazuron (alternative name), xlenols [CCN], YI-5302 (compound code) and zeatin (alternative name) (210),

a nitrification inhibitor selected from the group of substances consisting of potassium ethylxanthate [CCN] and nitrapyrin (580),

a plant activator selected from the group of substances consisting of acibenzolar (6), acibenzolar-S-methyl (6), probenazole (658) and *Reynoutria sachalinensis* extract (alternative name) (720),

a rodenticide selected from the group of substances consisting of 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC

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name) (748), alpha-chlorohydrin [CCN], aluminium phosphide (640), antu (880), arsenous oxide (882), barium carbonate (891), bisthiosemi (912), brodifacoum (89), bromadiolone (91), bromethalin (92), calcium cyanide (444), chloralose (127), chlorophacinone (140), cholecalciferol (alternative name) (850), coumachlor (1004), coumafuryl (1005), coumatetralyl (175), crimidine (1009), difenacoum (246), difethialone (249), diphacinone (273), ergocalciferol (301), flocoumafen (357), fluoroacetamide (379), flupropadine (1183), flupropadine hydrochloride (1183), gamma-HCH (430), HCH (430), hydrogen cyanide (444), iodomethane (IUPAC name) (542), lindane (430), magnesium phosphide (IUPAC name) (640), methyl bromide (537), norbormide (1318), phosacetim (1336), phosphine (IUPAC name) (640), phosphorus [CCN], pindone (1341), potassium arsenite [CCN], pyrinuron (1371), scilliroside (1390), sodium arsenite [CCN], sodium cyanide (444), sodium fluoroacetate (735), strychnine (745), thallium sulfate [CCN], warfarin (851) and zinc phosphide (640),

a synergist selected from the group of substances consisting of 2-(2-butoxyethoxy)-ethyl piperonylate (IUPAC name) (934), 5-(1,3-benzodioxol-5-yl)-3-hexylcyclohex-2-enone (IUPAC name) (903), farnesol with nerolidol (alternative name) (324), MB-599 (development code) (498), MGK 264 (development code) (296), piperonyl butoxide (649), piprotal (1343), propyl isomer (1358), S421 (development code) (724), sesamex (1393), sesasmolin (1394) and sulfoxide (1406),

an animal repellent selected from the group of substances consisting of anthraquinone (32), chloralose (127), copper naphthenate [CCN], copper oxychloride (171), diazinon (227), dicyclopentadiene (chemical name) (1069), guazatine (422), guazatine acetates (422), methiocarb (530), pyridin-4-amine (IUPAC name) (23), thiram (804), trimethacarb (840), zinc naphthenate [CCN] and ziram (856),

a virucide selected from the group of substances consisting of imanin (alternative name) [CCN] and ribavirin (alternative name) [CCN],

and a wound protectant selected from the group of substances consisting of mercuric oxide (512), octhilinone (590) and thiophanate-methyl (802).

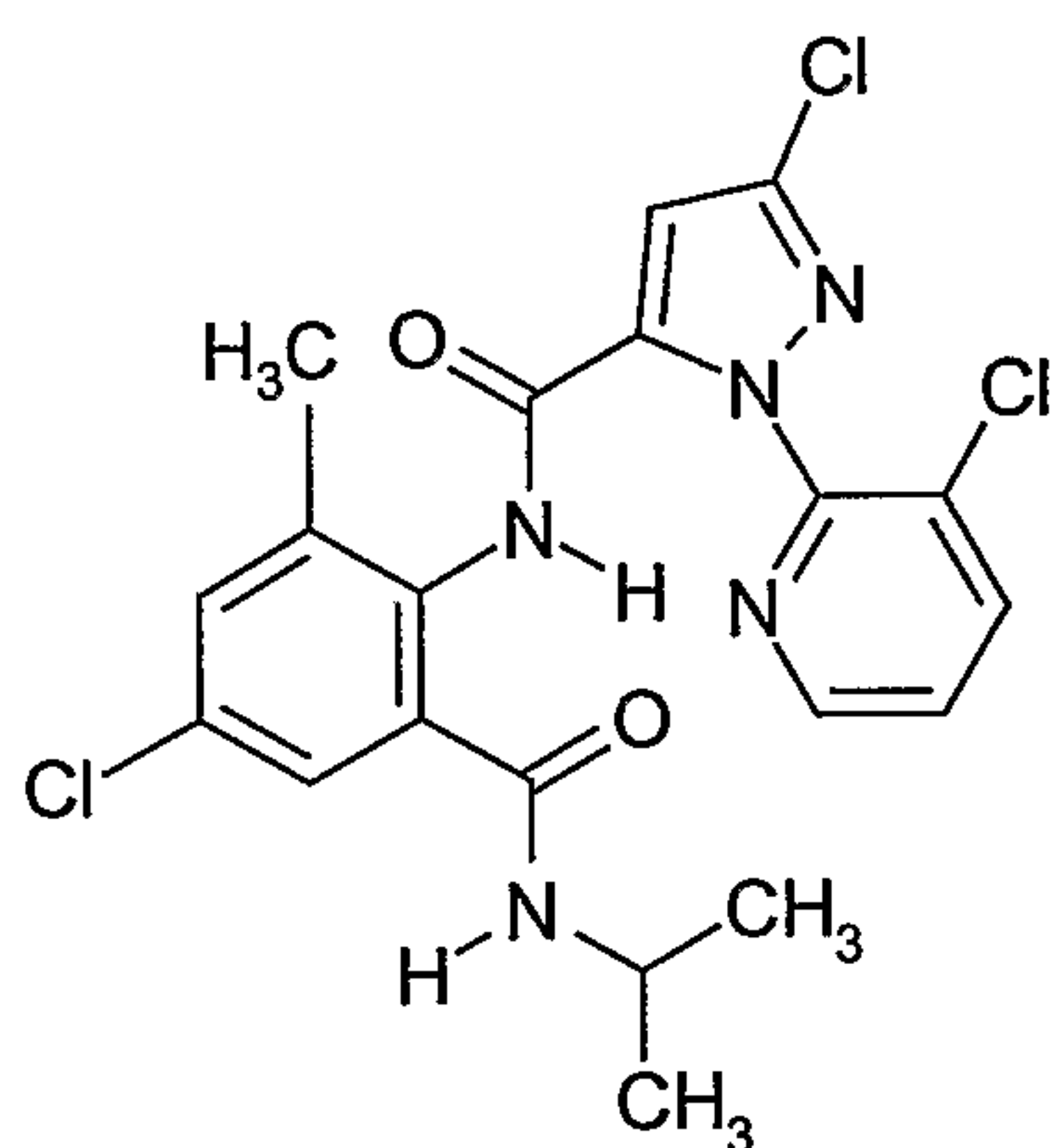
A very especially preferred embodiment of the subject-matter {1.1.10} of the invention is {1.1.10.2} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-10) and the compound (B) is a compound selected from the group of substances consisting of

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abamectin (1), cyromazine (209), diafenthiuron (226), diazinon (227), emamectin benzoate (291), fenoxycarb (340), fosthiazate (408), lambda-cyhalothrin (198), lufenuron (490), methidathion (529), profenofos (662), pymetrozine (688), tefluthrin (769) and thiamethoxam (792).

The compound of formula (A-10) is known, for example, from the PCT Application WO-03/015519.

A preferred embodiment of the subject-matter {1.1} of the invention is {1.1.11} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-11)



(A-11)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

An especially preferred embodiment of the subject-matter {1.1.11} of the invention is {1.1.11.1} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-11) and the compound (B) is a compound selected from the group of substances consisting of an adjuvant selected from the group of substances consisting of petroleum oils (alternative name) (628),

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an acaricide selected from the group of substances consisting of 1,1-bis(4-chlorophenyl)-2-ethoxyethanol (IUPAC name) (910), 2,4-dichlorophenyl benzenesulfonate (IUPAC/Chemical Abstracts name) (1059), 2-fluoro-*N*-methyl-*N*-1-naphthylacetamide (IUPAC name) (1295), 4-chlorophenyl phenyl sulfone (IUPAC name) (981), abamectin (1), acequinocyl (3), acetoprole [CCN], acrinathrin (9), aldicarb (16), aldoxycarb (863), alpha-cypermethrin (202), amidithion (870), amidoflumet [CCN], amidothioate (872), amiton (875), amiton hydrogen oxalate (875), amitraz (24), aramite (881), arsenous oxide (882), AVI 382 (compound code), AZ 60541 (compound code), azinphos-ethyl (44), azinphos-methyl (45), azobenzene (IUPAC name) (888), azocyclotin (46), azothoate (889), benomyl (62), benoxafos (alternative name) [CCN], benzoximate (71), benzyl benzoate (IUPAC name) [CCN], bifenazate (74), bifenthrin (76), binapacryl (907), brofenvalerate (alternative name), bromocyclen (918), bromophos (920), bromophos-ethyl (921), bromopropylate (94), buprofezin (99), butocarboxim (103), butoxycarboxim (104), butylpyridaben (alternative name), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbophenothion (947), CGA 50'439 (development code) (125), chinomethionat (126), chlorbenside (959), chlordimeform (964), chlordimeform hydrochloride (964), chlorfenapyr (130), chlorfenethol (968), chlorfenson (970), chlorfensulphide (971), chlorfenvinphos (131), chlorobenzilate (975), chloromebuform (977), chloromethiuron (978), chloropropylate (983), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), cinerin I (696), cinerin II (696), cinerins (696), clofentezine (158), closantel (alternative name) [CCN], coumaphos (174), crotamiton (alternative name) [CCN], crotoxyphos (1010), cufraneb (1013), cyanthoate (1020), cyhalothrin (196), cyhexatin (199), cypermethrin (201), DCPM (1032), DDT (219), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthion (226), dialifos (1042), diazinon (227), dichlofluanid (230), dichlorvos (236), dicliphos (alternative name), dicofol (242), dicrotophos (243), dienochlor (1071), dimefox (1081), dimethoate (262), dinactin (alternative name) (653), dinex (1089), dinex-diclexine (1089), dinobuton (269), dinocap (270), dinocap-4 [CCN], dinocap-6 [CCN], dinocron (1090), dinopenton (1092), dinosulfon (1097), dinoterbon (1098), dioxathion (1102), diphenyl sulfone (IUPAC name) (1103), disulfiram (alternative name) [CCN], disulfoton (278), DNOC (282), dofenapyn (1113), doramectin (alternative name) [CCN], endosulfan (294), endothion (1121), EPN (297), eprinomectin (alternative name) [CCN], ethion (309), ethoate-methyl (1134), etoxazole (320), etrimfos (1142), fenazaflor (1147), fenazaquin (328), fenbutatin

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oxide (330), fenothiocarb (337), fenpropathrin (342), fenpyrad (alternative name), fenpyroximate (345), fenson (1157), fentrifanil (1161), fenvalerate (349), fipronil (354), fluacrypyrim (360), fluazuron (1166), flubenzimine (1167), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenoxuron (370), flumethrin (372), fluorbenside (1174), fluvalinate (1184), FMC 1137 (development code) (1185), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), gamma-HCH (430), glyodin (1205), halfenprox (424), heptenophos (432), hexadecyl cyclopropanecarboxylate (IUPAC/Chemical Abstracts name) (1216), hexythiazox (441), iodomethane (IUPAC name) (542), isocarbophos (alternative name) (473), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), lindane (430), lufenuron (490), malathion (492), malonoben (1254), mecarbam (502), mephosfolan (1261), mesulfen (alternative name) [CCN], methacrifos (1266), methamidophos (527), methidathion (529), methiocarb (530), methomyl (531), methyl bromide (537), metolcarb (550), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naled (567), NC-184 (compound code), nifluridide (1309), nikkomycins (alternative name) [CCN], nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), omethoate (594), oxamyl (602), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), parathion (615), permethrin (626), petroleum oils (alternative name) (628), phenkapton (1330), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosphamidon (639), phoxim (642), pirimiphos-methyl (652), polychloroterpenes (traditional name) (1347), polynactins (alternative name) (653), proclonol (1350), profenofos (662), promacyl (1354), propargite (671), propetamphos (673), propoxur (678), prothidathion (1360), prothoate (1362), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), quinalphos (711), quintiofos (1381), R-1492 (development code) (1382), RA-17 (development code) (1383), rotenone (722), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), sophamide (1402), spirodiclofen (738), spiromesifen (739), SSI-121 (development code) (1404); sulfiram (alternative name) [CCN], sulfluramid (750), sulfotep (753), sulfur (754), SZI-121 (development code) (757), tau-fluvalinate (398), tebufenpyrad (763), TEPP (1417), terbam (alternative name), tetrachlorvinphos (777), tetradifon (786), tetranactin (alternative name) (653), tetrasul (1425), thiafenox (alternative name), thiocarboxime (1431), thiofanox (800), thiometon (801), thioquinox (1436),

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thuringiensin (alternative name) [CCN], triamiphos (1441), triarathene (1443), triazophos (820), triazuron (alternative name), trichlorfon (824), trifenofos (1455), trinactin (alternative name) (653), vamidothion (847), vaniliprole [CCN] and YI-5302 (compound code),

an algicide selected from the group of substances consisting of bethoxazin [CCN], copper dioctanoate (IUPAC name) (170), copper sulfate (172), cybutryne [CCN], dichlone (1052), dichlorophen (232), endothal (295), fentin (347), hydrated lime [CCN], nabam (566), quinoclamine (714), quinonamid (1379), simazine (730), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

an anthelmintic selected from the group of substances consisting of abamectin (1), crufomate (1011), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ivermectin (alternative name) [CCN], milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], piperazine [CCN], selamectin (alternative name) [CCN], spinosad (737) and thiophanate (1435),

an avicide selected from the group of substances consisting of chloralose (127), endrin (1122), fenthion (346), pyridin-4-amine (IUPAC name) (23) and strychnine (745),

a bactericide selected from the group of substances consisting of 1-hydroxy-1*H*-pyridine-2-thione (IUPAC name) (1222), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), 8-hydroxyquinoline sulfate (446), bronopol (97), copper dioctanoate (IUPAC name) (170), copper hydroxide (IUPAC name) (169), cresol [CCN], dichlorophen (232), dipyrithione (1105), dodicin (1112), fenaminosulf (1144), formaldehyde (404), hydrargaphen (alternative name) [CCN], kasugamycin (483), kasugamycin hydrochloride hydrate (483), nickel bis(dimethyldithiocarbamate) (IUPAC name) (1308), nitrapyrin (580), octhilinone (590), oxolinic acid (606), oxytetracycline (611), potassium hydroxyquinoline sulfate (446), probenazole (658), streptomycin (744), streptomycin sesquisulfate (744), tecloftalam (766) and thiomersal (alternative name) [CCN],

a biological agent selected from the group of substances consisting of *Adoxophyes orana* GV (alternative name) (12), *Agrobacterium radiobacter* (alternative name) (13), *Amblyseius* spp. (alternative name) (19), *Anagrapha falcifera* NPV (alternative name) (28), *Anagrus atomus* (alternative name) (29), *Aphelinus abdominalis* (alternative name) (33), *Aphidius colemani* (alternative name) (34), *Aphidoletes aphidimyza* (alternative name) (35), *Autographa californica* NPV (alternative name) (38), *Bacillus firmus* (alternative name) (48), *Bacillus sphaericus* Neide (scientific name) (49), *Bacillus thuringiensis* Berliner (scientific name) (51), *Bacillus thuringiensis* subsp. *aizawai* (scientific name) (51), *Bacillus*

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thuringiensis subsp. *israelensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *japonensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *kurstaki* (scientific name) (51), *Bacillus thuringiensis* subsp. *tenebrionis* (scientific name) (51), *Beauveria bassiana* (alternative name) (53), *Beauveria brongniartii* (alternative name) (54), *Chrysoperla carnea* (alternative name) (151), *Cryptolaemus montrouzieri* (alternative name) (178), *Cydia pomonella* GV (alternative name) (191), *Dacnusa sibirica* (alternative name) (212), *Diglyphus isaea* (alternative name) (254), *Encarsia formosa* (scientific name) (293), *Eretmocerus eremicus* (alternative name) (300), *Helicoverpa zea* NPV (alternative name) (431), *Heterorhabditis bacteriophora* and *H. megidis* (alternative name) (433), *Hippodamia convergens* (alternative name) (442), *Leptomastix dactylopii* (alternative name) (488), *Macrolophus caliginosus* (alternative name) (491), *Mamestra brassicae* NPV (alternative name) (494), *Metaphycus helvolus* (alternative name) (522), *Metarhizium anisopliae* var. *acridum* (scientific name) (523), *Metarhizium anisopliae* var. *anisopliae* (scientific name) (523), *Neodiprion sertifer* NPV and *N. lecontei* NPV (alternative name) (575), *Orius* spp. (alternative name) (596), *Paecilomyces fumosoroseus* (alternative name) (613), *Phytoseiulus persimilis* (alternative name) (644), *Spodoptera exigua* multicapsid nuclear polyhedrosis virus (scientific name) (741), *Steinernema bibionis* (alternative name) (742), *Steinernema carpocapsae* (alternative name) (742), *Steinernema feltiae* (alternative name) (742), *Steinernema glaseri* (alternative name) (742), *Steinernema riobrave* (alternative name) (742), *Steinernema riobravus* (alternative name) (742), *Steinernema scapterisci* (alternative name) (742), *Steinernema* spp. (alternative name) (742), *Trichogramma* spp. (alternative name) (826), *Typhlodromus occidentalis* (alternative name) (844) and *Verticillium lecanii* (alternative name) (848),

a soil sterilant selected from the group of substances consisting of iodomethane (IUPAC name) (542) and methyl bromide (537),

a chemosterilant selected from the group of substances consisting of apholate [CCN], bisazir (alternative name) [CCN], busulfan (alternative name) [CCN], diflubenzuron (250), dimatif (alternative name) [CCN], hemel [CCN], hempa [CCN], metepa [CCN], methiotepa [CCN], methyl apholate [CCN], morzid [CCN], penfluron (alternative name) [CCN], tepa [CCN], thiohempa (alternative name) [CCN], thiotepa (alternative name) [CCN], tretamine (alternative name) [CCN] and uredepa (alternative name) [CCN],

an insect pheromone selected from the group of substances consisting of (*E*)-dec-5-en-1-yl acetate with (*E*)-dec-5-en-1-ol (IUPAC name) (222), (*E*)-tridec-4-en-1-yl acetate (IUPAC name) (829), (*E*)-6-methylhept-2-en-4-ol (IUPAC name) (541), (*E,Z*)-tetradeca-4,10-

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dien-1-yl acetate (IUPAC name) (779), (Z)-dodec-7-en-1-yl acetate (IUPAC name) (285), (Z)-hexadec-11-enal (IUPAC name) (436), (Z)-hexadec-11-en-1-yl acetate (IUPAC name) (437), (Z)-hexadec-13-en-11-yn-1-yl acetate (IUPAC name) (438), (Z)-icos-13-en-10-one (IUPAC name) (448), (Z)-tetradec-7-en-1-al (IUPAC name) (782), (Z)-tetradec-9-en-1-ol (IUPAC name) (783), (Z)-tetradec-9-en-1-yl acetate (IUPAC name) (784), (7E,9Z)-dodeca-7,9-dien-1-yl acetate (IUPAC name) (283), (9Z,11E)-tetradeca-9,11-dien-1-yl acetate (IUPAC name) (780), (9Z,12E)-tetradeca-9,12-dien-1-yl acetate (IUPAC name) (781), 14-methyloctadec-1-ene (IUPAC name) (545), 4-methylnonan-5-ol with 4-methylnonan-5-one (IUPAC name) (544), alpha-multistriatin (alternative name) [CCN], brevicomin (alternative name) [CCN], codlure (alternative name) [CCN], codlemone (alternative name) (167), cuelure (alternative name) (179), disarlure (277), dodec-8-en-1-yl acetate (IUPAC name) (286), dodec-9-en-1-yl acetate (IUPAC name) (287), dodeca-8,10-dien-1-yl acetate (IUPAC name) (284), dominicalure (alternative name) [CCN], ethyl 4-methyloctanoate (IUPAC name) (317), eugenol (alternative name) [CCN], frontaline (alternative name) [CCN], gossyplure (alternative name) (420), grandlure (421), grandlure I (alternative name) (421), grandlure II (alternative name) (421), grandlure III (alternative name) (421), grandlure IV (alternative name) (421), hexalure [CCN], ipsdienol (alternative name) [CCN], ipsenol (alternative name) [CCN], japonilure (alternative name) (481), lineatin (alternative name) [CCN], litlure (alternative name) [CCN], looplure (alternative name) [CCN], medlure [CCN], megatomoic acid (alternative name) [CCN], methyl eugenol (alternative name) (540), muscalure (563), octadeca-2,13-dien-1-yl acetate (IUPAC name) (588), octadeca-3,13-dien-1-yl acetate (IUPAC name) (589), orflure (alternative name) [CCN], oryctalure (alternative name) (317), oostamone (alternative name) [CCN], siglure [CCN], sordidin (alternative name) (736), sulcatol (alternative name) [CCN], tetradec-11-en-1-yl acetate (IUPAC name) (785), trimedlure (839), trimedlure A (alternative name) (839), trimedlure B₁ (alternative name) (839), trimedlure B₂ (alternative name) (839), trimedlure C (alternative name) (839) and trunc-call (alternative name) [CCN],

an insect repellent selected from the group of substances consisting of 2-(octylthio)-ethanol (IUPAC name) (591), butopyronoxyl (933), butoxy(polypropylene glycol) (936), dibutyl adipate (IUPAC name) (1046), dibutyl phthalate (1047), dibutyl succinate (IUPAC name) (1048), diethyltoluamide [CCN], dimethyl carbate [CCN], dimethyl phthalate [CCN], ethyl hexanediol (1137), hexamide [CCN], methoquin-butyl (1276), methylneodecanamide [CCN], oxamate [CCN] and picaridin [CCN],

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an insecticide selected from the group of substances consisting of 1,1-dichloro-1-nitroethane (IUPAC/Chemical Abstracts name) (1058), 1,1-dichloro-2,2-bis(4-ethylphenyl)-ethane (IUPAC name) (1056), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1-bromo-2-chloroethane (IUPAC/Chemical Abstracts name) (916), 2,2,2-trichloro-1-(3,4-dichlorophenyl)ethyl acetate (IUPAC name) (1451), 2,2-dichlorovinyl 2-ethylsulfinylethyl methyl phosphate (IUPAC name) (1066), 2-(1,3-dithiolan-2-yl)phenyl dimethylcarbamate (IUPAC/Chemical Abstracts name) (1109), 2-(2-butoxyethoxy)ethyl thiocyanate (IUPAC/Chemical Abstracts name) (935), 2-(4,5-dimethyl-1,3-dioxolan-2-yl)phenyl methylcarbamate (IUPAC/Chemical Abstracts name) (1084), 2-(4-chloro-3,5-xylyloxy)ethanol (IUPAC name) (986), 2-chlorovinyl diethyl phosphate (IUPAC name) (984), 2-imidazolidone (IUPAC name) (1225), 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 2-methyl(prop-2-ynyl)aminophenyl methylcarbamate (IUPAC name) (1284), 2-thiocyanatoethyl laurate (IUPAC name) (1433), 3-bromo-1-chloroprop-1-ene (IUPAC name) (917), 3-methyl-1-phenylpyrazol-5-yl dimethylcarbamate (IUPAC name) (1283), 4-methyl(prop-2-ynyl)amino-3,5-xylyl methylcarbamate (IUPAC name) (1285), 5,5-dimethyl-3-oxocyclohex-1-enyl dimethylcarbamate (IUPAC name) (1085), abamectin (1), acephate (2), acetamiprid (4), acethion (alternative name) [CCN], acetoprole [CCN], acrinathrin (9), acrylonitrile (IUPAC name) (861), alanycarb (15), aldicarb (16), aldoxycarb (863), aldrin (864), allethrin (17), allosamidin (alternative name) [CCN], allyxycarb (866), alpha-cypermethrin (202), alpha-ecdysone (alternative name) [CCN], aluminium phosphide (640), amidithion (870), amidothioate (872), aminocarb (873), amiton (875), amiton hydrogen oxalate (875), amitraz (24), anabasine (877), athidathion (883), AVI 382 (compound code), AZ 60541 (compound code), azadirachtin (alternative name) (41), azamethiphos (42), azinphos-ethyl (44), azinphos-methyl (45), azothoate (889), *Bacillus thuringiensis* delta endotoxins (alternative name) (52), barium hexafluorosilicate (alternative name) [CCN], barium polysulfide (IUPAC/Chemical Abstracts name) (892), barthrin [CCN], BAS 320 I (compound code), Bayer 22/190 (development code) (893), Bayer 22408 (development code) (894), bendiocarb (58), benfuracarb (60), bensultap (66), beta-cyfluthrin (194), beta-cypermethrin (203), bifenthrin (76), bioallethrin (78), bioallethrin S-cyclopentenyl isomer (alternative name) (79), bioethanomethrin [CCN], biopermethrin (908), bioresmethrin (80), bis(2-chloroethyl) ether (IUPAC name) (909), bistrifluron (83), borax (86), brofenvalerate (alternative name), bromfenvinfos (914), bromocyclen (918), bromo-DDT (alternative name) [CCN], bromophos (920), bromophos-ethyl (921), bufencarb (924), buprofezin (99), butacarb (926), butathiofos (927), butocarboxim (103), butonate (932),

butoxycarboxim (104), butylpyridaben (alternative name), cadusafos (109), calcium arsenate [CCN], calcium cyanide (444), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbon disulfide (IUPAC/Chemical Abstracts name) (945), carbon tetrachloride (IUPAC name) (946), carbophenothion (947), carbosulfan (119), cartap (123), cartap hydrochloride (123), cevadine (alternative name) (725), chlorbicyclen (960), chlordane (128), chlordecone (963), chlordimeform (964), chlordimeform hydrochloride (964), chlorethoxyfos (129), chlorfenapyr (130), chlorfenvinphos (131), chlorfluazuron (132), chlormephos (136), chloroform [CCN], chloropicrin (141), chlorphoxim (989), chlorprazophos (990), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), chromafenozide (150), cinerin I (696), cinerin II (696), cinerins (696), cis-resmethrin (alternative name), cismethrin (80), clocythrin (alternative name), cloethocarb (999), closantel (alternative name) [CCN], clothianidin (165), copper acetoarsenite [CCN], copper arsenate [CCN], copper oleate [CCN], coumaphos (174), coumithoate (1006), crotamiton (alternative name) [CCN], crotoxyphos (1010), cruformate (1011), cryolite (alternative name) (177), CS 708 (development code) (1012), cyanofenphos (1019), cyanophos (184), cyanthoate (1020), cyclethrin [CCN], cycloprothrin (188), cyfluthrin (193), cyhalothrin (196), cypermethrin (201), cyphenothrin (206), cyromazine (209), cythioate (alternative name) [CCN], *d*-limonene (alternative name) [CCN], *d*-tetramethrin (alternative name) (788), DAEP (1031), dazomet (216), DDT (219), decarbofuran (1034), deltamethrin (223), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthiuron (226), dialifos (1042), diamidafos (1044), diazinon (227), dicapthon (1050), dichlofenthion (1051), dichlorvos (236), dicliphos (alternative name), dicresyl (alternative name) [CCN], dicrotophos (243), dicyclanil (244), dieldrin (1070), diethyl 5-methylpyrazol-3-yl phosphate (IUPAC name) (1076), diflubenzuron (250), dilor (alternative name) [CCN], dimefluthrin [CCN], dimefox (1081), dimetan (1085), dimethoate (262), dimethrin (1083), dimethylvinphos (265), dimetilan (1086), dinex (1089), dinex-diclexine (1089), dinoprop (1093), dinosam (1094), dinoseb (1095), dinotefuran (271), diofenolan (1099), dioxabenzofos (1100), dioxacarb (1101), dioxathion (1102), disulfoton (278), dithicrofos (1108), DNOC (282), doramectin (alternative name) [CCN], DSP (1115), ecdysterone (alternative name) [CCN], EI 1642 (development code) (1118), emamectin (291), emamectin benzoate (291), EMPC (1120), empenthrin (292), endosulfan (294), endothion (1121), endrin (1122), EPBP (1123), EPN (297), epofenonane (1124), eprinomectin (alternative name) [CCN], esfenvalerate (302), etaphos

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(alternative name) [CCN], ethiofencarb (308), ethion (309), ethiprole (310), ethoate-methyl (1134), ethoprophos (312), ethyl formate (IUPAC name) [CCN], ethyl-DDD (alternative name) (1056), ethylene dibromide (316), ethylene dichloride (chemical name) (1136), ethylene oxide [CCN], etofenprox (319), etrimfos (1142), EXD (1143), famphur (323), fenamiphos (326), fenazaflor (1147), fenchlorphos (1148), fenethacarb (1149), fenfluthrin (1150), fenitrothion (335), fenobucarb (336), fenoxacrim (1153), fenoxycarb (340), fenpirithrin (1155), fenpropathrin (342), fenpyrad (alternative name), fensulfothion (1158), fenthion (346), fenthion-ethyl [CCN], fenvalerate (349), fipronil (354), flonicamid (358), flucofuron (1168), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenerim [CCN], flufenoxuron (370), flufenprox (1171), flumethrin (372), fluvalinate (1184), FMC 1137 (development code) (1185), fonofos (1191), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), fosmethilan (1194), fospirate (1195), fosthiazate (408), fosthietan (1196), furathiocarb (412), furethrin (1200), gamma-cyhalothrin (197), gamma-HCH (430), guazatine (422), guazatine acetates (422), GY-81 (development code) (423), halfenprox (424), halofenozide (425), HCH (430), HEOD (1070), heptachlor (1211), heptenophos (432), heterophos [CCN], hexaflumuron (439), HHDN (864), hydramethylnon (443), hydrogen cyanide (444), hydroprene (445), hyquincarb (1223), imidacloprid (458), imiprothrin (460), indoxacarb (465), iodomethane (IUPAC name) (542), IPSP (1229), isazofos (1231), isobenzan (1232), isocarbophos (alternative name) (473), isodrin (1235), isofenphos (1236), isolane (1237), isoprocab (472), isopropyl O-(methoxy-aminothiophosphoryl)salicylate (IUPAC name) (473), isoprothiolane (474), isothioate (1244), isoxathion (480), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), juvenile hormone I (alternative name) [CCN], juvenile hormone II (alternative name) [CCN], juvenile hormone III (alternative name) [CCN], kelevan (1249), kinoprene (484), lambda-cyhalothrin (198), lead arsenate [CCN], leptophos (1250), lindane (430), lirimfos (1251), lufenuron (490), lythidathion (1253), *m*-cumenyl methylcarbamate (IUPAC name) (1014), magnesium phosphide (IUPAC name) (640), malathion (492), malonoben (1254), mazidox (1255), mecarbam (502), mecarphon (1258), menazon (1260), mephosfolan (1261), mercurous chloride (513), mesulfenfos (1263), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methacrifos (1266), methamidophos (527), methanesulfonyl fluoride (IUPAC/Chemical Abstracts name) (1268), methidathion (529), methiocarb (530), methocrotophos (1273), methomyl (531), methoprene (532), methoquin-butyl (1276), methothrin (alternative name) (533), methoxychlor (534), methoxyfenozide (535), methyl bromide (537), methyl isothiocyanate (543),

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methylchloroform (alternative name) [CCN], methylene chloride [CCN], metofluthrin [CCN], metolcarb (550), metoxadiazone (1288), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), mirex (1294), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naftalofos (alternative name) [CCN], naled (567), naphthalene (IUPAC/Chemical Abstracts name) (1303), NC-170 (development code) (1306), NC-184 (compound code), nicotine (578), nicotine sulfate (578), nifluridide (1309), nitenpyram (579), nithiazine (1311), nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), nor nicotine (traditional name) (1319), novaluron (585), noviflumuron (586), O-2,5-dichloro-4-iodophenyl O-ethyl ethylphosphonothioate (IUPAC name) (1057), O,O-diethyl O-4-methyl-2-oxo-2*H*-chromen-7-yl phosphorothioate (IUPAC name) (1074), O,O-diethyl O-6-methyl-2-propylpyrimidin-4-yl phosphorothioate (IUPAC name) (1075), O,O,O',O'-tetrapropyl dithiopyrophosphate (IUPAC name) (1424), oleic acid (IUPAC name) (593), omethoate (594), oxamyl (602), oxydemeton-methyl (609), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), para-dichlorobenzene [CCN], parathion (615), parathion-methyl (616), penfluron (alternative name) [CCN], pentachlorophenol (623), pentachlorophenyl laurate (IUPAC name) (623), permethrin (626), petroleum oils (alternative name) (628), PH 60-38 (development code) (1328), phenkapton (1330), phenothrin (630), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosnichlor (1339), phosphamidon (639), phosphine (IUPAC name) (640), phoxim (642), phoxim-methyl (1340), pirimetaphos (1344), pirimicarb (651), pirimiphos-ethyl (1345), pirimiphos-methyl (652), polychlorodicyclopentadiene isomers (IUPAC name) (1346), polychloroterpenes (traditional name) (1347), potassium arsenite [CCN], potassium thiocyanate [CCN], prallethrin (655), precocene I (alternative name) [CCN], precocene II (alternative name) [CCN], precocene III (alternative name) [CCN], primidophos (1349), profenofos (662), profluthrin [CCN], promacyl (1354), promecarb (1355), propaphos (1356), propetamphos (673), propoxur (678), prothidathion (1360), prothiofos (686), prothoate (1362), protrifenbute [CCN], pymetrozine (688), pyraclofos (689), pyrazophos (693), pyresmethrin (1367), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridalyl (700), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), pyriproxyfen (708), quassia (alternative name) [CCN], quinalphos (711), quinalphos-methyl (1376), quinothion (1380), quintiofos (1381), R-1492 (development code) (1382), rafoxanide (alternative name) [CCN], resmethrin (719), rotenone (722), RU 15525 (development code) (723), RU 25475 (development code) (1386), ryania (alternative name) (1387), ryanodine

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(traditional name) (1387), sabadilla (alternative name) (725), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), silafluofen (728), SN 72129 (development code) (1397), sodium arsenite [CCN], sodium cyanide (444), sodium fluoride (IUPAC/Chemical Abstracts name) (1399), sodium hexafluorosilicate (1400), sodium pentachlorophenoxide (623), sodium selenate (IUPAC name) (1401), sodium thiocyanate [CCN], sophamide (1402), spinosad (737), spiromesifen (739), sulcofuron (746), sulcofuron-sodium (746), sulfluramid (750), sulfotep (753), sulfuryl fluoride (756), sulprofos (1408), tar oils (alternative name) (758), tau-fluvalinate (398), tazimcarb (1412), TDE (1414), tebufenozide (762), tebufenpyrad (763), tebupirimfos (764), teflubenzuron (768), tefluthrin (769), temephos (770), TEPP (1417), terallethrin (1418), terbam (alternative name), terbufos (773), tetrachloroethane [CCN], tetrachlorvinphos (777), tetramethrin (787), theta-cypermethrin (204), thiacloprid (791), thiafenox (alternative name), thiamethoxam (792), thicrofos (1428), thiocarboxime (1431), thiocyclam (798), thiocyclam hydrogen oxalate (798), thiodicarb (799), thiofanox (800), thiometon (801), thionazin (1434), thiosultap (803), thiosultap-sodium (803), thuringiensin (alternative name) [CCN], tolfenpyrad (809), tralomethrin (812), transfluthrin (813), transpermethrin (1440), triamiphos (1441), triazamate (818), triazophos (820), triazuron (alternative name), trichlorfon (824), trichlormetaphos-3 (alternative name) [CCN], trichloronat (1452), trifenofos (1455), triflumuron (835), trimethacarb (840), triprene (1459), vamidothion (847), vaniliprole [CCN], veratridine (alternative name) (725), veratrine (alternative name) (725), XMC (853), xylylcarb (854), YI-5302 (compound code), zeta-cypermethrin (205), zetamethrin (alternative name), zinc phosphide (640), zolaprofos (1469) and ZXI 8901 (development code) (858),

a molluscicide selected from the group of substances consisting of bis(tributyltin) oxide (IUPAC name) (913), bromoacetamide [CCN], calcium arsenate [CCN], cloethocarb (999), copper acetoarsenite [CCN], copper sulfate (172), fentin (347), ferric phosphate (IUPAC name) (352), metaldehyde (518), methiocarb (530), niclosamide (576), niclosamide-olamine (576), pentachlorophenol (623), sodium pentachlorophenoxide (623), tazimcarb (1412), thiodicarb (799), tributyltin oxide (913), trifenmorph (1454), trimethacarb (840), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

a nematicide selected from the group of substances consisting of 1,2-dibromo-3-chloropropane (IUPAC/Chemical Abstracts name) (1045), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1,3-dichloropropene (233), 3,4-dichlorotetrahydrothiophene 1,1-dioxide (IUPAC/Chemical Abstracts name) (1065), 3-(4-chlorophenyl)-5-methylrhodanine (IUPAC

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name) (980), 5-methyl-6-thioxo-1,3,5-thiadiazinan-3-ylacetic acid (IUPAC name) (1286), 6-isopentenylaminopurine (alternative name) (210), abamectin (1), acetoprole [CCN], alanycarb (15), aldicarb (16), aldoxycarb (863), AZ 60541 (compound code), benclonthiaz [CCN], benomyl (62), butylpyridaben (alternative name), cadusafos (109), carbofuran (118), carbon disulfide (945), carbosulfan (119), chloropicrin (141), chlorpyrifos (145), cloethocarb (999), cytokinins (alternative name) (210), dazomet (216), DBCP (1045), DCIP (218), diamidafos (1044), dichlofenthion (1051), dicliphos (alternative name), dimethoate (262), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ethoprophos (312), ethylene dibromide (316), fenamiphos (326), fenpyrad (alternative name), fensulfothion (1158), fosthiazate (408), fosthietan (1196), furfural (alternative name) [CCN], GY-81 (development code) (423), heterophos [CCN], iodomethane (IUPAC name) (542), isamidofos (1230), isazofos (1231), ivermectin (alternative name) [CCN], kinetin (alternative name) (210), mecarphon (1258), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methyl bromide (537), methyl isothiocyanate (543), milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], *Myrothecium verrucaria* composition (alternative name) (565), NC-184 (compound code), oxamyl (602), phorate (636), phosphamidon (639), phosphocarb [CCN], sebufos (alternative name), selamectin (alternative name) [CCN], spinosad (737), terbam (alternative name), terbufos (773), tetrachlorothiophene (IUPAC/Chemical Abstracts name) (1422), thiafenox (alternative name), thionazin (1434), triazophos (820), triazuron (alternative name), xlenols [CCN], YI-5302 (compound code) and zeatin (alternative name) (210),

a nitrification inhibitor selected from the group of substances consisting of potassium ethylxanthate [CCN] and nitrapyrin (580),

a plant activator selected from the group of substances consisting of acibenzolar (6), acibenzolar-S-methyl (6), probenazole (658) and *Reynoutria sachalinensis* extract (alternative name) (720),

a rodenticide selected from the group of substances consisting of 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), alpha-chlorohydrin [CCN], aluminium phosphide (640), antu (880), arsenous oxide (882), barium carbonate (891), bithiosemi (912), brodifacoum (89), bromadiolone (91), bromethalin (92), calcium cyanide (444), chloralose (127), chlorophacinone (140), cholecalciferol (alternative name) (850), coumachlor (1004), coumafuryl (1005), coumatetralyl (175), crimidine (1009), difenacoum (246), difethialone (249), diphacinone

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(273), ergocalciferol (301), flocoumafen (357), fluoroacetamide (379), flupropadine (1183), flupropadine hydrochloride (1183), gamma-HCH (430), HCH (430), hydrogen cyanide (444), iodomethane (IUPAC name) (542), lindane (430), magnesium phosphide (IUPAC name) (640), methyl bromide (537), norbormide (1318), phosacetim (1336), phosphine (IUPAC name) (640), phosphorus [CCN], pindone (1341), potassium arsenite [CCN], pyrinuron (1371), scilliroside (1390), sodium arsenite [CCN], sodium cyanide (444), sodium fluoroacetate (735), strychnine (745), thallium sulfate [CCN], warfarin (851) and zinc phosphide (640),

a synergist selected from the group of substances consisting of 2-(2-butoxyethoxy)-ethyl piperonylate (IUPAC name) (934), 5-(1,3-benzodioxol-5-yl)-3-hexylcyclohex-2-enone (IUPAC name) (903), farnesol with nerolidol (alternative name) (324), MB-599 (development code) (498), MGK 264 (development code) (296), piperonyl butoxide (649), piprotal (1343), propyl isomer (1358), S421 (development code) (724), sesamex (1393), sesasmolin (1394) and sulfoxide (1406),

an animal repellent selected from the group of substances consisting of anthraquinone (32), chloralose (127), copper naphthenate [CCN], copper oxychloride (171), diazinon (227), dicyclopentadiene (chemical name) (1069), guazatine (422), guazatine acetates (422), methiocarb (530), pyridin-4-amine (IUPAC name) (23), thiram (804), trimethacarb (840), zinc naphthenate [CCN] and ziram (856),

a virucide selected from the group of substances consisting of imanin (alternative name) [CCN] and ribavirin (alternative name) [CCN],

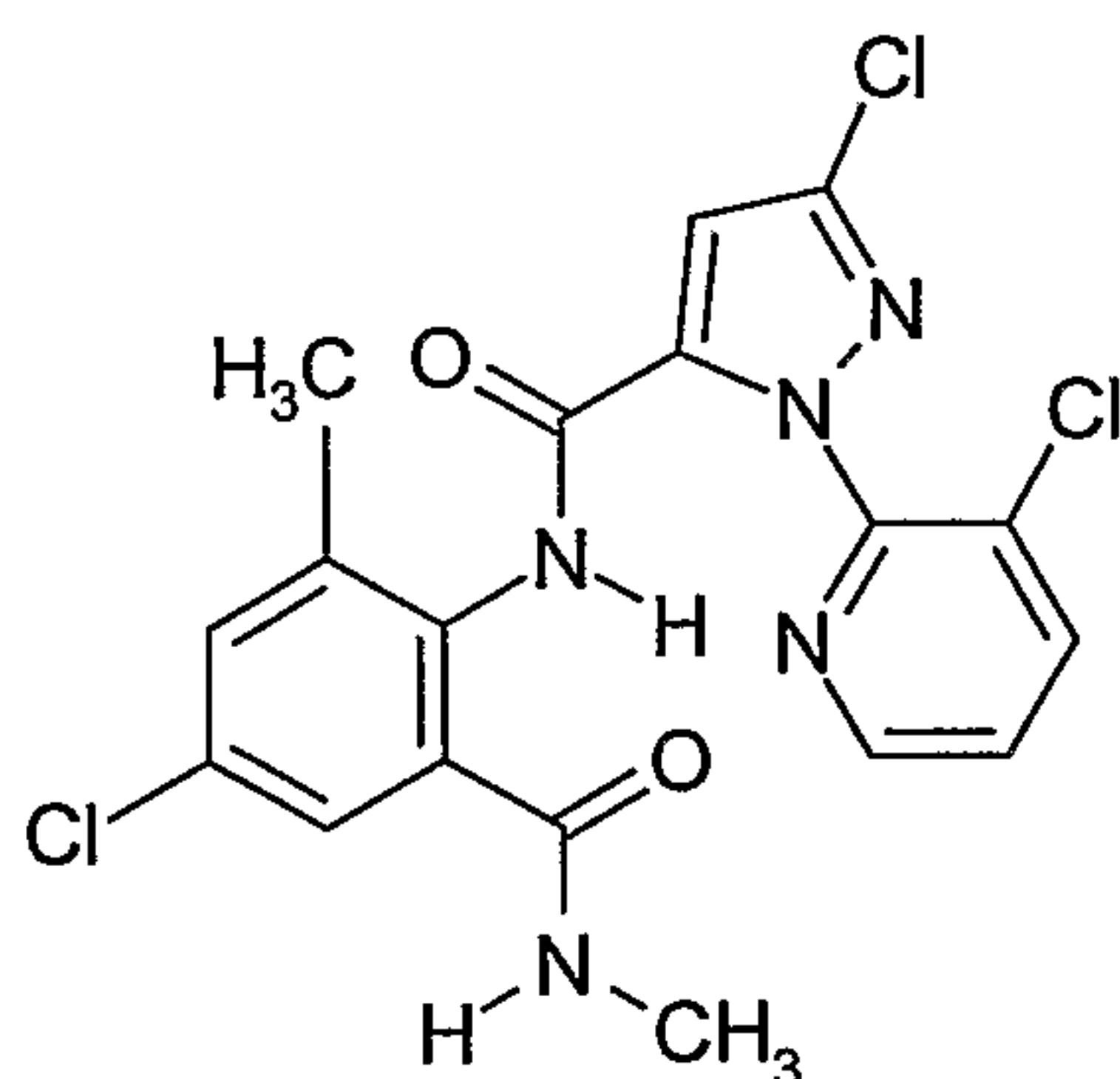
and a wound protectant selected from the group of substances consisting of mercuric oxide (512), octhilinone (590) and thiophanate-methyl (802).

A very especially preferred embodiment of the subject-matter {1.1.11} of the invention is {1.1.11.2} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-11) and the compound (B) is a compound selected from the group of substances consisting of abamectin (1), cyromazine (209), diafenthiuron (226), diazinon (227), emamectin benzoate (291), fenoxycarb (340), fosthiazate (408), lambda-cyhalothrin (198), lufenuron (490), methidathion (529), profenofos (662), pymetrozine (688), tefluthrin (769) and thiamethoxam (792).

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The compound of formula (A-11) is known, for example, from the PCT Application WO-03/015519.

A preferred embodiment of the subject-matter {1.1} of the invention is {1.1.12} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-12)



(A-12)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

An especially preferred embodiment of the subject-matter {1.1.12} of the invention is {1.1.12.1} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-12) and the compound (B) is a compound selected from the group of substances consisting of an adjuvant selected from the group of substances consisting of petroleum oils (alternative name) (628),

an acaricide selected from the group of substances consisting of 1,1-bis(4-chlorophenyl)-2-ethoxyethanol (IUPAC name) (910), 2,4-dichlorophenyl benzenesulfonate (IUPAC/Chemical Abstracts name) (1059), 2-fluoro-*N*-methyl-*N*-1-naphthylacetamide (IUPAC name) (1295), 4-chlorophenyl phenyl sulfone (IUPAC name) (981), abamectin (1), acequinocyl (3), acetoprole [CCN], acrinathrin (9), aldicarb (16), aldoxycarb (863), alpha-cypermethrin (202), amidithion (870), amidoflumet [CCN], amidothioate (872), amiton (875), amiton hydrogen oxalate (875), amitraz (24), aramite (881), arsenous oxide (882), AVI 382

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(compound code), AZ 60541 (compound code), azinphos-ethyl (44), azinphos-methyl (45), azobenzene (IUPAC name) (888), azocyclotin (46), azothoate (889), benomyl (62), benoxafos (alternative name) [CCN], benzoximate (71), benzyl benzoate (IUPAC name) [CCN], bifenazate (74), bifenthrin (76), binapacryl (907), brofenvalerate (alternative name), bromocyclen (918), bromophos (920), bromophos-ethyl (921), bromopropylate (94), buprofezin (99), butocarboxim (103), butoxycarboxim (104), butylpyridaben (alternative name), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbophenothion (947), CGA 50'439 (development code) (125), chinomethionat (126), chlorbenside (959), chlordimeform (964), chlordimeform hydrochloride (964), chlorfenapyr (130), chlorfenethol (968), chlorfenson (970), chlorfensulphide (971), chlorfenvinphos (131), chlorobenzilate (975), chloromebuform (977), chloromethiuron (978), chloropropylate (983), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), cinerin I (696), cinerin II (696), cinerins (696), clofentezine (158), closantel (alternative name) [CCN], coumaphos (174), crotamiton (alternative name) [CCN], crotoxyphos (1010), cufraneb (1013), cyanthoate (1020), cyhalothrin (196), cyhexatin (199), cypermethrin (201), DCPM (1032), DDT (219), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthion (226), dialifos (1042), diazinon (227), dichlofluanid (230), dichlorvos (236), dicliphos (alternative name), dicofol (242), dicrotophos (243), dienochlor (1071), dimefox (1081), dimethoate (262), dinactin (alternative name) (653), dinex (1089), dinex-diclexine (1089), dinobuton (269), dinocap (270), dinocap-4 [CCN], dinocap-6 [CCN], dinocron (1090), dinopenton (1092), dinosulfon (1097), dinoterbon (1098), dioxathion (1102), diphenyl sulfone (IUPAC name) (1103), disulfiram (alternative name) [CCN], disulfoton (278), DNOC (282), dofenapyn (1113), doramectin (alternative name) [CCN], endosulfan (294), endothion (1121), EPN (297), eprinomectin (alternative name) [CCN], ethion (309), ethoate-methyl (1134), etoxazole (320), etrimfos (1142), fenazaflor (1147), fenazaquin (328), fenbutatin oxide (330), fenothiocarb (337), fenpropathrin (342), fenpyrad (alternative name), fenpyroximate (345), fenson (1157), fentrifanil (1161), fenvalerate (349), fipronil (354), fluacrypyrim (360), fluazuron (1166), flubenzimine (1167), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenoxuron (370), flumethrin (372), fluorbenside (1174), fluvalinate (1184), FMC 1137 (development code) (1185), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), gamma-HCH (430), glyodin (1205), halfenprox (424), heptenophos (432), hexadecyl cyclopropanecarboxylate (IUPAC/Chemical Abstracts

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name) (1216), hexythiazox (441), iodomethane (IUPAC name) (542), isocarbophos (alternative name) (473), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), lindane (430), lufenuron (490), malathion (492), malonoben (1254), mecarbam (502), mephosfolan (1261), mesulfen (alternative name) [CCN], methacrifos (1266), methamidophos (527), methidathion (529), methiocarb (530), methomyl (531), methyl bromide (537), metolcarb (550), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naled (567), NC-184 (compound code), nifluridide (1309), nikkomycins (alternative name) [CCN], nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), omethoate (594), oxamyl (602), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), parathion (615), permethrin (626), petroleum oils (alternative name) (628), phenkapton (1330), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosphamidon (639), phoxim (642), pirimiphos-methyl (652), polychloroterpenes (traditional name) (1347), polynactins (alternative name) (653), proclonol (1350), profenofos (662), promacyl (1354), propargite (671), propetamphos (673), propoxur (678), prothidathion (1360), prothoate (1362), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), quinalphos (711), quintiofos (1381), R-1492 (development code) (1382), RA-17 (development code) (1383), rotenone (722), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), sophamide (1402), spirodiclofen (738), spiromesifen (739), SSI-121 (development code) (1404), sulfiram (alternative name) [CCN], sulfluramid (750), sulfotep (753), sulfur (754), SZI-121 (development code) (757), tau-fluvalinate (398), tebufenpyrad (763), TEPP (1417), terbam (alternative name), tetrachlorvinphos (777), tetradifon (786), tetranactin (alternative name) (653), tetrasul (1425), thiafenox (alternative name), thiocarboxime (1431), thiofanox (800), thiometon (801), thioquinox (1436), thuringiensin (alternative name) [CCN], triamiphos (1441), triarathene (1443), triazophos (820), triazuron (alternative name), trichlorfon (824), trifenofos (1455), trinactin (alternative name) (653), vamidothion (847), vaniliprole [CCN] and YI-5302 (compound code),

an algicide selected from the group of substances consisting of bethoxazin [CCN], copper dioctanoate (IUPAC name) (170), copper sulfate (172), cybutryne [CCN], dichlone (1052), dichlorophen (232), endothal (295), fentin (347), hydrated lime [CCN], nabam (566),

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quinoclamine (714), quinonamid (1379), simazine (730), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

an anthelmintic selected from the group of substances consisting of abamectin (1), crufomate (1011), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ivermectin (alternative name) [CCN], milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], piperazine [CCN], selamectin (alternative name) [CCN], spinosad (737) and thiophanate (1435),

an avicide selected from the group of substances consisting of chloralose (127), endrin (1122), fenthion (346), pyridin-4-amine (IUPAC name) (23) and strychnine (745),

a bactericide selected from the group of substances consisting of 1-hydroxy-1*H*-pyridine-2-thione (IUPAC name) (1222), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), 8-hydroxyquinoline sulfate (446), bronopol (97), copper dioctanoate (IUPAC name) (170), copper hydroxide (IUPAC name) (169), cresol [CCN], dichlorophen (232), dipyrithione (1105), dodicin (1112), fenaminosulf (1144), formaldehyde (404), hydrargaphen (alternative name) [CCN], kasugamycin (483), kasugamycin hydrochloride hydrate (483), nickel bis(dimethyldithiocarbamate) (IUPAC name) (1308), nitrapyrin (580), octhilinone (590), oxolinic acid (606), oxytetracycline (611), potassium hydroxyquinoline sulfate (446), probenazole (658), streptomycin (744), streptomycin sesquisulfate (744), tecloftalam (766) and thiomersal (alternative name) [CCN],

a biological agent selected from the group of substances consisting of *Adoxophyes orana* GV (alternative name) (12), *Agrobacterium radiobacter* (alternative name) (13), *Amblyseius* spp. (alternative name) (19), *Anagrapha falcifera* NPV (alternative name) (28), *Anagrus atomus* (alternative name) (29), *Aphelinus abdominalis* (alternative name) (33), *Aphidius colemani* (alternative name) (34), *Aphidoletes aphidimyza* (alternative name) (35), *Autographa californica* NPV (alternative name) (38), *Bacillus firmus* (alternative name) (48), *Bacillus sphaericus* Neide (scientific name) (49), *Bacillus thuringiensis* Berliner (scientific name) (51), *Bacillus thuringiensis* subsp. *aizawai* (scientific name) (51), *Bacillus thuringiensis* subsp. *israelensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *japonensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *kurstaki* (scientific name) (51), *Bacillus thuringiensis* subsp. *tenebrionis* (scientific name) (51), *Beauveria bassiana* (alternative name) (53), *Beauveria brongniartii* (alternative name) (54), *Chrysoperla carnea* (alternative name) (151), *Cryptolaemus montrouzieri* (alternative name) (178), *Cydia pomonella* GV (alternative name) (191), *Dacnusa sibirica* (alternative name) (212), *Diglyphus*

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isaea (alternative name) (254), *Encarsia formosa* (scientific name) (293), *Eretmocerus eremicus* (alternative name) (300), *Helicoverpa zea* NPV (alternative name) (431), *Heterorhabditis bacteriophora* and *H. megidis* (alternative name) (433), *Hippodamia convergens* (alternative name) (442), *Leptomastix dactylopii* (alternative name) (488), *Macrolophus caliginosus* (alternative name) (491), *Mamestra brassicae* NPV (alternative name) (494), *Metaphycus helvolus* (alternative name) (522), *Metarhizium anisopliae* var. *acridum* (scientific name) (523), *Metarhizium anisopliae* var. *anisopliae* (scientific name) (523), *Neodiprion sertifer* NPV and *N. lecontei* NPV (alternative name) (575), *Orius* spp. (alternative name) (596), *Paecilomyces fumosoroseus* (alternative name) (613), *Phytoseiulus persimilis* (alternative name) (644), *Spodoptera exigua* multicapsid nuclear polyhedrosis virus (scientific name) (741), *Steinernema bibionis* (alternative name) (742), *Steinernema carpocapsae* (alternative name) (742), *Steinernema feltiae* (alternative name) (742), *Steinernema glaseri* (alternative name) (742), *Steinernema riobrave* (alternative name) (742), *Steinernema riobravus* (alternative name) (742), *Steinernema scapterisci* (alternative name) (742), *Steinernema* spp. (alternative name) (742), *Trichogramma* spp. (alternative name) (826), *Typhlodromus occidentalis* (alternative name) (844) and *Verticillium lecanii* (alternative name) (848),

a soil sterilant selected from the group of substances consisting of iodomethane (IUPAC name) (542) and methyl bromide (537),

a chemosterilant selected from the group of substances consisting of apholate [CCN], bisazir (alternative name) [CCN], busulfan (alternative name) [CCN], diflubenzuron (250), dimatif (alternative name) [CCN], hemel [CCN], hempa [CCN], metepa [CCN], methiotepa [CCN], methyl apholate [CCN], morzid [CCN], penfluron (alternative name) [CCN], tepa [CCN], thiohempa (alternative name) [CCN], thiotepa (alternative name) [CCN], tretamine (alternative name) [CCN] and uredepa (alternative name) [CCN],

an insect pheromone selected from the group of substances consisting of (*E*)-dec-5-en-1-yl acetate with (*E*)-dec-5-en-1-ol (IUPAC name) (222), (*E*)-tridec-4-en-1-yl acetate (IUPAC name) (829), (*E*)-6-methylhept-2-en-4-ol (IUPAC name) (541), (*E,Z*)-tetradeca-4,10-dien-1-yl acetate (IUPAC name) (779), (*Z*)-dodec-7-en-1-yl acetate (IUPAC name) (285), (*Z*)-hexadec-11-enal (IUPAC name) (436), (*Z*)-hexadec-11-en-1-yl acetate (IUPAC name) (437), (*Z*)-hexadec-13-en-11-yn-1-yl acetate (IUPAC name) (438), (*Z*)-icos-13-en-10-one (IUPAC name) (448), (*Z*)-tetradec-7-en-1-al (IUPAC name) (782), (*Z*)-tetradec-9-en-1-ol (IUPAC name) (783), (*Z*)-tetradec-9-en-1-yl acetate (IUPAC name) (784), (*7E,9Z*)-dodeca-7,9-dien-1-yl acetate (IUPAC name) (283), (*9Z,11E*)-tetradeca-9,11-dien-1-yl acetate

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(IUPAC name) (780), (9Z,12E)-tetradeca-9,12-dien-1-yl acetate (IUPAC name) (781), 14-methyloctadec-1-ene (IUPAC name) (545), 4-methylnonan-5-ol with 4-methylnonan-5-one (IUPAC name) (544), alpha-multistriatin (alternative name) [CCN], brevicomin (alternative name) [CCN], codlure (alternative name) [CCN], codlemone (alternative name) (167), cuelure (alternative name) (179), disarlure (277), dodec-8-en-1-yl acetate (IUPAC name) (286), dodec-9-en-1-yl acetate (IUPAC name) (287), dodeca-8,10-dien-1-yl acetate (IUPAC name) (284), dominicalure (alternative name) [CCN], ethyl 4-methyloctanoate (IUPAC name) (317), eugenol (alternative name) [CCN], frontaline (alternative name) [CCN], gossypolure (alternative name) (420), grandlure (421), grandlure I (alternative name) (421), grandlure II (alternative name) (421), grandlure III (alternative name) (421), grandlure IV (alternative name) (421), hexalure [CCN], ipsdienol (alternative name) [CCN], ipsenol (alternative name) [CCN], japonilure (alternative name) (481), lineatin (alternative name) [CCN], litlure (alternative name) [CCN], looplure (alternative name) [CCN], medlure [CCN], megatomoic acid (alternative name) [CCN], methyl eugenol (alternative name) (540), muscalure (563), octadeca-2,13-dien-1-yl acetate (IUPAC name) (588), octadeca-3,13-dien-1-yl acetate (IUPAC name) (589), orfuralure (alternative name) [CCN], oryctalure (alternative name) (317), ostramone (alternative name) [CCN], siglure [CCN], sordidin (alternative name) (736), sulcatol (alternative name) [CCN], tetradec-11-en-1-yl acetate (IUPAC name) (785), trimedlure (839), trimedlure A (alternative name) (839), trimedlure B₁ (alternative name) (839), trimedlure B₂ (alternative name) (839), trimedlure C (alternative name) (839) and trunc-call (alternative name) [CCN],

an insect repellent selected from the group of substances consisting of 2-(octylthio)-ethanol (IUPAC name) (591), butopyronoxyl (933), butoxy(polypropylene glycol) (936), dibutyl adipate (IUPAC name) (1046), dibutyl phthalate (1047), dibutyl succinate (IUPAC name) (1048), diethyltoluamide [CCN], dimethyl carbate [CCN], dimethyl phthalate [CCN], ethyl hexanediol (1137), hexamide [CCN], methoquin-butyl (1276), methylneodecanamide [CCN], oxamate [CCN] and picaridin [CCN],

an insecticide selected from the group of substances consisting of 1,1-dichloro-1-nitroethane (IUPAC/Chemical Abstracts name) (1058), 1,1-dichloro-2,2-bis(4-ethylphenyl)-ethane (IUPAC name) (1056), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1-bromo-2-chloroethane (IUPAC/Chemical Abstracts name) (916), 2,2,2-trichloro-1-(3,4-dichlorophenyl)ethyl acetate (IUPAC name) (1451), 2,2-dichlorovinyl 2-ethylsulfinylethyl methyl phosphate (IUPAC name) (1066), 2-(1,3-dithiolan-2-yl)phenyl dimethylcarbamate (IUPAC/

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Chemical Abstracts name) (1109), 2-(2-butoxyethoxy)ethyl thiocyanate (IUPAC/Chemical Abstracts name) (935), 2-(4,5-dimethyl-1,3-dioxolan-2-yl)phenyl methylcarbamate (IUPAC/Chemical Abstracts name) (1084), 2-(4-chloro-3,5-xylyloxy)ethanol (IUPAC name) (986), 2-chlorovinyl diethyl phosphate (IUPAC name) (984), 2-imidazolidone (IUPAC name) (1225), 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 2-methyl(prop-2-ynyl)aminophenyl methylcarbamate (IUPAC name) (1284), 2-thiocyanatoethyl laurate (IUPAC name) (1433), 3-bromo-1-chloroprop-1-ene (IUPAC name) (917), 3-methyl-1-phenylpyrazol-5-yl dimethylcarbamate (IUPAC name) (1283), 4-methyl(prop-2-ynyl)amino-3,5-xylyl methylcarbamate (IUPAC name) (1285), 5,5-dimethyl-3-oxocyclohex-1-enyl dimethylcarbamate (IUPAC name) (1085), abamectin (1), acephate (2), acetamiprid (4), acethion (alternative name) [CCN], acetoprole [CCN], acrinathrin (9), acrylonitrile (IUPAC name) (861), alanycarb (15), aldicarb (16), aldoxycarb (863), aldrin (864), allethrin (17), allosamidin (alternative name) [CCN], allyxycarb (866), alpha-cypermethrin (202), alpha-ecdysone (alternative name) [CCN], aluminium phosphide (640), amidithion (870), amidothioate (872), aminocarb (873), amiton (875), amiton hydrogen oxalate (875), amitraz (24), anabasine (877), athidathion (883), AVI 382 (compound code), AZ 60541 (compound code), azadirachtin (alternative name) (41), azamethiphos (42), azinphos-ethyl (44), azinphos-methyl (45), azothoate (889), *Bacillus thuringiensis* delta endotoxins (alternative name) (52), barium hexafluorosilicate (alternative name) [CCN], barium polysulfide (IUPAC/Chemical Abstracts name) (892), barthrin [CCN], BAS 320 I (compound code), Bayer 22/190 (development code) (893), Bayer 22408 (development code) (894), bendiocarb (58), benfuracarb (60), bensultap (66), beta-cyfluthrin (194), beta-cypermethrin (203), bifenthrin (76), bioallethrin (78), bioallethrin S-cyclopentenyl isomer (alternative name) (79), bioethanomethrin [CCN], biopermethrin (908), bioresmethrin (80), bis(2-chloroethyl) ether (IUPAC name) (909), bistrifluron (83), borax (86), brofenvalerate (alternative name), bromfenvinfos (914), bromocyclen (918), bromo-DDT (alternative name) [CCN], bromophos (920), bromophos-ethyl (921), bufencarb (924), buprofezin (99), butacarb (926), butathiofos (927), butocarboxim (103), butonate (932), butoxycarboxim (104), butylpyridaben (alternative name), cadusafos (109), calcium arsenate [CCN], calcium cyanide (444), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbon disulfide (IUPAC/Chemical Abstracts name) (945), carbon tetrachloride (IUPAC name) (946), carbophenothion (947), carbosulfan (119), cartap (123), cartap hydrochloride (123), cevadine (alternative name) (725), chlorbicyclen (960), chlordane (128), chlordecone (963), chlordimeform (964), chlordimeform hydrochloride (964), chlorethoxyfos (129), chlorfenapyr (130),

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chlorfenvinphos (131), chlorfluazuron (132), chlormephos (136), chloroform [CCN], chloropicrin (141), chlorphoxim (989), chlorprazophos (990), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), chromafenozide (150), cinerin I (696), cinerin II (696), cinerins (696), cis-resmethrin (alternative name), cismethrin (80), clocythrin (alternative name), cloethocarb (999), closantel (alternative name) [CCN], clothianidin (165), copper acetoarsenite [CCN], copper arsenate [CCN], copper oleate [CCN], coumaphos (174), coumithoate (1006), crotamiton (alternative name) [CCN], crotoxyphos (1010), crufomate (1011), cryolite (alternative name) (177), CS 708 (development code) (1012), cyanofenphos (1019), cyanophos (184), cyanthoate (1020), cyclethrin [CCN], cycloprothrin (188), cyfluthrin (193), cyhalothrin (196), cypermethrin (201), cyphenothrin (206), cyromazine (209), cythioate (alternative name) [CCN], *d*-limonene (alternative name) [CCN], *d*-tetramethrin (alternative name) (788), DAEP (1031), dazomet (216), DDT (219), decarbofuran (1034), deltamethrin (223), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthiuron (226), dialifos (1042), diamidafos (1044), diazinon (227), dicapthon (1050), dichlofenthion (1051), dichlorvos (236), dicliphos (alternative name), dicresyl (alternative name) [CCN], dicrotophos (243), dicyclanil (244), dieldrin (1070), diethyl 5-methylpyrazol-3-yl phosphate (IUPAC name) (1076), diflubenzuron (250), dilor (alternative name) [CCN], dimefluthrin [CCN], dimefox (1081), dimetan (1085), dimethoate (262), dimethrin (1083), dimethylvinphos (265), dimetilan (1086), dinex (1089), dinex-diclexine (1089), dinoprop (1093), dinosam (1094), dinoseb (1095), dinotefuran (271), diofenolan (1099), dioxabenzofos (1100), dioxacarb (1101), dioxathion (1102), disulfoton (278), dithicrofos (1108), DNOC (282), doramectin (alternative name) [CCN], DSP (1115), ecdysterone (alternative name) [CCN], EI 1642 (development code) (1118), emamectin (291), emamectin benzoate (291), EMPC (1120), empenthrin (292), endosulfan (294), endothion (1121), endrin (1122), EPBP (1123), EPN (297), epofenonane (1124), eprinomectin (alternative name) [CCN], esfenvalerate (302), etaphos (alternative name) [CCN], ethiofencarb (308), ethion (309), ethiprole (310), ethoate-methyl (1134), ethoprophos (312), ethyl formate (IUPAC name) [CCN], ethyl-DDD (alternative name) (1056), ethylene dibromide (316), ethylene dichloride (chemical name) (1136), ethylene oxide [CCN], etofenprox (319), etrimfos (1142), EXD (1143), famphur (323), fenamiphos (326), fenazaflor (1147), fenchlorphos (1148), fenethacarb (1149), fenfluthrin (1150), fenitrothion (335), fenobucarb (336), fenoxacrim (1153), fenoxycarb (340), fenpirithrin (1155), fenpropathrin (342), fenpyrad (alternative name), fensulfothion (1158),

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fenthion (346), fenthion-ethyl [CCN], fenvalerate (349), fipronil (354), flonicamid (358), flucofuron (1168), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenerim [CCN], flufenoxuron (370), flufenprox (1171), flumethrin (372), fluvalinate (1184), FMC 1137 (development code) (1185), fonofos (1191), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), fosmethilan (1194), fospirate (1195), fosthiazate (408), fosthietan (1196), furathiocarb (412), furethrin (1200), gamma-cyhalothrin (197), gamma-HCH (430), guazatine (422), guazatine acetates (422), GY-81 (development code) (423), halfenprox (424), halofenozide (425), HCH (430), HEOD (1070), heptachlor (1211), heptenophos (432), heterophos [CCN], hexaflumuron (439), HHDN (864), hydramethylnon (443), hydrogen cyanide (444), hydroprene (445), hyquincarb (1223), imidacloprid (458), imiprothrin (460), indoxacarb (465), iodomethane (IUPAC name) (542), IPSP (1229), isazofos (1231), isobenzan (1232), isocarbophos (alternative name) (473), isodrin (1235), isofenphos (1236), isolane (1237), isoprocab (472), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), isoprothiolane (474), isothioate (1244), isoxathion (480), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), juvenile hormone I (alternative name) [CCN], juvenile hormone II (alternative name) [CCN], juvenile hormone III (alternative name) [CCN], kelevan (1249), kinoprene (484), lambda-cyhalothrin (198), lead arsenate [CCN], leptophos (1250), lindane (430), lirimfos (1251), lufenuron (490), lythidathion (1253), *m*-cumenyl methylcarbamate (IUPAC name) (1014), magnesium phosphide (IUPAC name) (640), malathion (492), malonoben (1254), mazidox (1255), mecarbam (502), mecarphon (1258), menazon (1260), mephosfolan (1261), mercurous chloride (513), mesulfenfos (1263), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methacrifos (1266), methamidophos (527), methanesulfonyl fluoride (IUPAC/Chemical Abstracts name) (1268), methidathion (529), methiocarb (530), methocrotophos (1273), methomyl (531), methoprene (532), methoquin-butyl (1276), methothrin (alternative name) (533), methoxychlor (534), methoxyfenozide (535), methyl bromide (537), methyl isothiocyanate (543), methylchloroform (alternative name) [CCN], methylene chloride [CCN], metofluthrin [CCN], metolcarb (550), metoxadiazone (1288), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), mirex (1294), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naftalofos (alternative name) [CCN], naled (567), naphthalene (IUPAC/Chemical Abstracts name) (1303), NC-170 (development code) (1306), NC-184 (compound code), nicotine (578), nicotine sulfate (578), nifluridide (1309), nitenpyram (579), nithiazine (1311), nitrilacarb

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(1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), nornicotine (traditional name) (1319), novaluron (585), noviflumuron (586), O-2,5-dichloro-4-iodophenyl O-ethyl ethylphosphonothioate (IUPAC name) (1057), O,O-diethyl O-4-methyl-2-oxo-2*H*-chromen-7-yl phosphorothioate (IUPAC name) (1074), O,O-diethyl O-6-methyl-2-propylpyrimidin-4-yl phosphorothioate (IUPAC name) (1075), O,O,O',O'-tetrapropyl dithiopyrophosphate (IUPAC name) (1424), oleic acid (IUPAC name) (593), omethoate (594), oxamyl (602), oxydemeton-methyl (609), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), para-dichlorobenzene [CCN], parathion (615), parathion-methyl (616), penfluron (alternative name) [CCN], pentachlorophenol (623), pentachlorophenyl laurate (IUPAC name) (623), permethrin (626), petroleum oils (alternative name) (628), PH 60-38 (development code) (1328), phenkapton (1330), phenothrin (630), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosnichlor (1339), phosphamidon (639), phosphine (IUPAC name) (640), phoxim (642), phoxim-methyl (1340), pirimetaphos (1344), pirimicarb (651), pirimiphos-ethyl (1345), pirimiphos-methyl (652), polychlorodicyclopentadiene isomers (IUPAC name) (1346), polychloroterpenes (traditional name) (1347), potassium arsenite [CCN], potassium thiocyanate [CCN], prallethrin (655), precocene I (alternative name) [CCN], precocene II (alternative name) [CCN], precocene III (alternative name) [CCN], primidophos (1349), profenofos (662), profluthrin [CCN], promacyl (1354), promecarb (1355), propaphos (1356), propetamphos (673), propoxur (678), prothidathion (1360), prothiofos (686), prothoate (1362), protrifenbute [CCN], pymetrozine (688), pyraclofos (689), pyrazophos (693), pyresmethrin (1367), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridalyl (700), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), pyriproxyfen (708), quassia (alternative name) [CCN], quinalphos (711), quinalphos-methyl (1376), quinothion (1380), quintiofos (1381), R-1492 (development code) (1382), rafoxanide (alternative name) [CCN], resmethrin (719), rotenone (722), RU 15525 (development code) (723), RU 25475 (development code) (1386), ryania (alternative name) (1387), ryanodine (traditional name) (1387), sabadilla (alternative name) (725), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), silafluofen (728), SN 72129 (development code) (1397), sodium arsenite [CCN], sodium cyanide (444), sodium fluoride (IUPAC/Chemical Abstracts name) (1399), sodium hexafluorosilicate (1400), sodium pentachlorophenoxide (623), sodium selenate (IUPAC name) (1401), sodium thiocyanate [CCN], sophamide (1402), spinosad (737), spiromesifen (739), sulcofuron (746), sulcofuron-sodium (746), sulfluramid (750), sulfotep (753), sulfuryl

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fluoride (756), sulprofos (1408), tar oils (alternative name) (758), tau-fluvalinate (398), tazimcarb (1412), TDE (1414), tebufenozide (762), tebufenpyrad (763), tebupirimfos (764), teflubenzuron (768), tefluthrin (769), temephos (770), TEPP (1417), terallethrin (1418), terbam (alternative name), terbufos (773), tetrachloroethane [CCN], tetrachlorvinphos (777), tetramethrin (787), theta-cypermethrin (204), thiacloprid (791), thiafenox (alternative name), thiamethoxam (792), thicrofos (1428), thiocarboxime (1431), thiocyclam (798), thiocyclam hydrogen oxalate (798), thiodicarb (799), thiofanox (800), thiometon (801), thionazin (1434), thiosultap (803), thiosultap-sodium (803), thuringiensin (alternative name) [CCN], tolfenpyrad (809), tralomethrin (812), transfluthrin (813), transpermethrin (1440), triamiphos (1441), triazamate (818), triazophos (820), triazuron (alternative name), trichlorfon (824), trichlormetaphos-3 (alternative name) [CCN], trichloronat (1452), trifenofos (1455), triflumuron (835), trimethacarb (840), triprene (1459), vamidothion (847), vaniliprole [CCN], veratridine (alternative name) (725), veratrine (alternative name) (725), XMC (853), xylylcarb (854), YI-5302 (compound code), zeta-cypermethrin (205), zetamethrin (alternative name), zinc phosphide (640), zolaprofos (1469) and ZXI 8901 (development code) (858),

a molluscicide selected from the group of substances consisting of bis(tributyltin) oxide (IUPAC name) (913), bromoacetamide [CCN], calcium arsenate [CCN], cloethocarb (999), copper acetoarsenite [CCN], copper sulfate (172), fentin (347), ferric phosphate (IUPAC name) (352), metaldehyde (518), methiocarb (530), niclosamide (576), niclosamide-olamine (576), pentachlorophenol (623), sodium pentachlorophenoxide (623), tazimcarb (1412), thiodicarb (799), tributyltin oxide (913), trifenmorph (1454), trimethacarb (840), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

a nematicide selected from the group of substances consisting of 1,2-dibromo-3-chloropropane (IUPAC/Chemical Abstracts name) (1045), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1,3-dichloropropene (233), 3,4-dichlorotetrahydrothiophene 1,1-dioxide (IUPAC/Chemical Abstracts name) (1065), 3-(4-chlorophenyl)-5-methylrhodanine (IUPAC name) (980), 5-methyl-6-thioxo-1,3,5-thiadiazinan-3-ylacetic acid (IUPAC name) (1286), 6-isopentenylaminopurine (alternative name) (210), abamectin (1), acetoprole [CCN], alanycarb (15), aldicarb (16), aldoxycarb (863), AZ 60541 (compound code), benclothiaz [CCN], benomyl (62), butylpyridaben (alternative name), cadusafos (109), carbofuran (118), carbon disulfide (945), carbosulfan (119), chloropicrin (141), chlorpyrifos (145), cloethocarb (999), cytokinins (alternative name) (210), dazomet (216), DBCP (1045), DCIP (218), diamidafos (1044), dichlofenthion (1051), dicliphos (alternative name), dimethoate (262),

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doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ethoprophos (312), ethylene dibromide (316), fenamiphos (326), fenpyrad (alternative name), fensulfothion (1158), fosthiazate (408), fosthietan (1196), furfural (alternative name) [CCN], GY-81 (development code) (423), heterophos [CCN], iodomethane (IUPAC name) (542), isamidofos (1230), isazofos (1231), ivermectin (alternative name) [CCN], kinetin (alternative name) (210), mecarphon (1258), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methyl bromide (537), methyl isothiocyanate (543), milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], *Myrothecium verrucaria* composition (alternative name) (565), NC-184 (compound code), oxamyl (602), phorate (636), phosphamidon (639), phosphocarb [CCN], sebufos (alternative name), selamectin (alternative name) [CCN], spinosad (737), terbam (alternative name), terbufos (773), tetrachlorothiophene (IUPAC/ Chemical Abstracts name) (1422), thiafenox (alternative name), thionazin (1434), triazophos (820), triazuron (alternative name), xlenols [CCN], YI-5302 (compound code) and zeatin (alternative name) (210),

a nitrification inhibitor selected from the group of substances consisting of potassium ethylxanthate [CCN] and nitrapyrin (580),

a plant activator selected from the group of substances consisting of acibenzolar (6), acibenzolar-S-methyl (6), probenazole (658) and *Reynoutria sachalinensis* extract (alternative name) (720),

a rodenticide selected from the group of substances consisting of 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), alpha-chlorohydrin [CCN], aluminium phosphide (640), antu (880), arsenous oxide (882), barium carbonate (891), bithiosemi (912), brodifacoum (89), bromadiolone (91), bromethalin (92), calcium cyanide (444), chloralose (127), chlorophacinone (140), cholecalciferol (alternative name) (850), coumachlor (1004), coumafuryl (1005), coumatetralyl (175), crimidine (1009), difenacoum (246), difethialone (249), diphacinone (273), ergocalciferol (301), flocoumafen (357), fluoroacetamide (379), flupropadine (1183), flupropadine hydrochloride (1183), gamma-HCH (430), HCH (430), hydrogen cyanide (444), iodomethane (IUPAC name) (542), lindane (430), magnesium phosphide (IUPAC name) (640), methyl bromide (537), norbormide (1318), phosacetim (1336), phosphine (IUPAC name) (640), phosphorus [CCN], pindone (1341), potassium arsenite [CCN], pyrinuron (1371), scilliroside (1390), sodium arsenite [CCN], sodium cyanide (444), sodium fluoro-

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acetate (735), strychnine (745), thallium sulfate [CCN], warfarin (851) and zinc phosphide (640),

a synergist selected from the group of substances consisting of 2-(2-butoxyethoxy)-ethyl piperonylate (IUPAC name) (934), 5-(1,3-benzodioxol-5-yl)-3-hexylcyclohex-2-enone (IUPAC name) (903), farnesol with nerolidol (alternative name) (324), MB-599 (development code) (498), MGK 264 (development code) (296), piperonyl butoxide (649), piprotal (1343), propyl isomer (1358), S421 (development code) (724), sesamex (1393), sesasmolin (1394) and sulfoxide (1406),

an animal repellent selected from the group of substances consisting of anthraquinone (32), chloralose (127), copper naphthenate [CCN], copper oxychloride (171), diazinon (227), dicyclopentadiene (chemical name) (1069), guazatine (422), guazatine acetates (422), methiocarb (530), pyridin-4-amine (IUPAC name) (23), thiram (804), trimethacarb (840), zinc naphthenate [CCN] and ziram (856),

a virucide selected from the group of substances consisting of imanin (alternative name) [CCN] and ribavirin (alternative name) [CCN],

and a wound protectant selected from the group of substances consisting of mercuric oxide (512), octhilinone (590) and thiophanate-methyl (802).

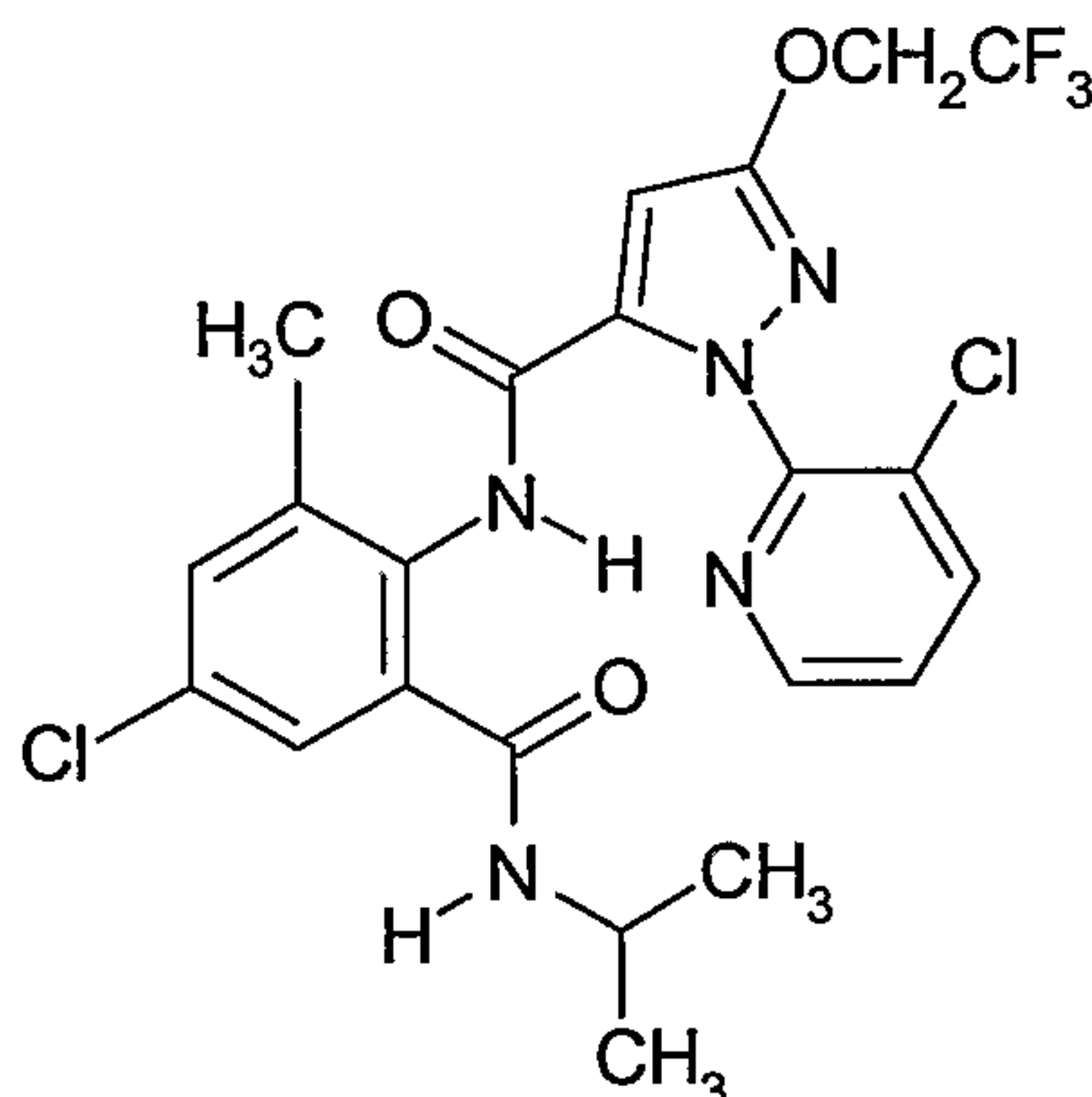
A very especially preferred embodiment of the subject-matter {1.1.12} of the invention is {1.1.12.2} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-12) and the compound (B) is a compound selected from the group of substances consisting of abamectin (1), cyromazine (209), diafenthiuron (226), diazinon (227), emamectin benzoate (291), fenoxycarb (340), fosthiazate (408), lambda-cyhalothrin (198), lufenuron (490), methidathion (529), profenofos (662), pymetrozine (688), tefluthrin (769) and thiamethoxam (792).

The compound of formula (A-12) is known, for example, from the PCT Application WO-03/015519.

A preferred embodiment of the subject-matter {1.1} of the invention is {1.1.13} a pesticidal composition comprising a mixture consisting of at least two substances, namely one

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compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-13)



(A-13)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

An especially preferred embodiment of the subject-matter {1.1.13} of the invention is {1.1.13.1} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-13) and the compound (B) is a compound selected from the group of substances consisting of an adjuvant selected from the group of substances consisting of petroleum oils (alternative name) (628),

an acaricide selected from the group of substances consisting of 1,1-bis(4-chlorophenyl)-2-ethoxyethanol (IUPAC name) (910), 2,4-dichlorophenyl benzenesulfonate (IUPAC/Chemical Abstracts name) (1059), 2-fluoro-*N*-methyl-*N*-1-naphthylacetamide (IUPAC name) (1295), 4-chlorophenyl phenyl sulfone (IUPAC name) (981), abamectin (1), acequinocyl (3), acetoprole [CCN], acrinathrin (9), aldicarb (16), aldoxycarb (863), alpha-cypermethrin (202), amidithion (870), amidoflumet [CCN], amidothioate (872), amiton (875), amiton hydrogen oxalate (875), amitraz (24), aramite (881), arsenous oxide (882), AVI 382 (compound code), AZ 60541 (compound code), azinphos-ethyl (44), azinphos-methyl (45), azobenzene (IUPAC name) (888), azocyclotin (46), azothoate (889), benomyl (62), benoxafos (alternative name) [CCN], benzoximate (71), benzyl benzoate (IUPAC name) [CCN], bifenazate (74), bifenthrin (76), binapacryl (907), brofenvalerate (alternative name), bromo-

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cyclen (918), bromophos (920), bromophos-ethyl (921), bromopropylate (94), buprofezin (99), butocarboxim (103), butoxycarboxim (104), butylpyridaben (alternative name), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbophenothion (947), CGA 50'439 (development code) (125), chino-methionat (126), chlorbenside (959), chlordimeform (964), chlordimeform hydrochloride (964), chlorfenapyr (130), chlorfenethol (968), chlorfenson (970), chlorfensulphide (971), chlorfenvinphos (131), chlorobenzilate (975), chloromebuform (977), chloromethiuron (978), chloropropylate (983), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), cinerin I (696), cinerin II (696), cinerins (696), clofentezine (158), closantel (alternative name) [CCN], coumaphos (174), crotamiton (alternative name) [CCN], crotoxyphos (1010), cufraneb (1013), cyanthoate (1020), cyhalothrin (196), cyhexatin (199), cypermethrin (201), DCPM (1032), DDT (219), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafen-thiuron (226), dialifos (1042), diazinon (227), dichlofluanid (230), dichlorvos (236), dicliphos (alternative name), dicofol (242), dicrotophos (243), dienochlor (1071), dimefox (1081), dimethoate (262), dinactin (alternative name) (653), dinex (1089), dinex-diclexine (1089), dinobuton (269), dinocap (270), dinocap-4 [CCN], dinocap-6 [CCN], dinocton (1090), dino-penton (1092), dinosulfon (1097), dinoterbon (1098), dioxathion (1102), diphenyl sulfone (IUPAC name) (1103), disulfiram (alternative name) [CCN], disulfoton (278), DNOC (282), dofenapyn (1113), doramectin (alternative name) [CCN], endosulfan (294), endothion (1121), EPN (297), eprinomectin (alternative name) [CCN], ethion (309), ethoate-methyl (1134), etoxazole (320), etrimfos (1142), fenazaflor (1147), fenazaquin (328), fenbutatin oxide (330), fenothiocarb (337), fenpropathrin (342), fenpyrad (alternative name), fen-pyroximate (345), fenson (1157), fentrifanil (1161), fenvalerate (349), fipronil (354), fluacry-pyrim (360), fluazuron (1166), flubenzimine (1167), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenoxuron (370), flumethrin (372), fluorbenside (1174), fluvalinate (1184), FMC 1137 (development code) (1185), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), gamma-HCH (430), glyodin (1205), halfenprox (424), heptenophos (432), hexadecyl cyclopropanecarboxylate (IUPAC/Chemical Abstracts name) (1216), hexythiazox (441), iodomethane (IUPAC name) (542), isocarbophos (alternative name) (473), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), lindane (430), lufenuron (490), malathion (492), malonoben (1254),

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mecarbam (502), mephosfolan (1261), mesulfen (alternative name) [CCN], methacrifos (1266), methamidophos (527), methidathion (529), methiocarb (530), methomyl (531), methyl bromide (537), metolcarb (550), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naled (567), NC-184 (compound code), nifluridide (1309), nikkomycins (alternative name) [CCN], nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), omethoate (594), oxamyl (602), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), parathion (615), permethrin (626), petroleum oils (alternative name) (628), phenkapton (1330), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosphamidon (639), phoxim (642), pirimiphos-methyl (652), polychloroterpenes (traditional name) (1347), polynactins (alternative name) (653), proclonol (1350), profenofos (662), promacyl (1354), propargite (671), propetamphos (673), propoxur (678), prothidathion (1360), prothoate (1362), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), quinalphos (711), quintiofos (1381), R-1492 (development code) (1382), RA-17 (development code) (1383), rotenone (722), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), sophamide (1402), spirodiclofen (738), spiromesifen (739), SSI-121 (development code) (1404), sulfiram (alternative name) [CCN], sulfluramid (750), sulfotep (753), sulfur (754), SZI-121 (development code) (757), tau-fluvalinate (398), tebufenpyrad (763), TEPP (1417), terbam (alternative name), tetrachlorvinphos (777), tetradifon (786), tetranactin (alternative name) (653), tetrasul (1425), thiafenox (alternative name), thiocarboxime (1431), thiofanox (800), thiometon (801), thioquinox (1436), thuringiensin (alternative name) [CCN], triamiphos (1441), triarathene (1443), triazophos (820), triazuron (alternative name), trichlorfon (824), trifenofos (1455), trinactin (alternative name) (653), vamidothion (847), vaniliprole [CCN] and YI-5302 (compound code),

an algicide selected from the group of substances consisting of bethoxazin [CCN], copper dioctanoate (IUPAC name) (170), copper sulfate (172), cybutryne [CCN], dichlone (1052), dichlorophen (232), endothal (295), fentin (347), hydrated lime [CCN], nabam (566), quinoclamine (714), quinonamid (1379), simazine (730), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

an anthelmintic selected from the group of substances consisting of abamectin (1), crufomate (1011), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ivermectin (alternative name)

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[CCN], milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], piperazine [CCN], selamectin (alternative name) [CCN], spinosad (737) and thiophanate (1435),

an avicide selected from the group of substances consisting of chloralose (127), endrin (1122), fenthion (346), pyridin-4-amine (IUPAC name) (23) and strychnine (745),

a bactericide selected from the group of substances consisting of 1-hydroxy-1*H*-pyridine-2-thione (IUPAC name) (1222), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), 8-hydroxyquinoline sulfate (446), bronopol (97), copper dioctanoate (IUPAC name) (170), copper hydroxide (IUPAC name) (169), cresol [CCN], dichlorophen (232), dipyrithione (1105), dodicin (1112), fenaminosulf (1144), formaldehyde (404), hydrargaphen (alternative name) [CCN], kasugamycin (483), kasugamycin hydrochloride hydrate (483), nickel bis(dimethyldithiocarbamate) (IUPAC name) (1308), nitrapyrin (580), octhilinone (590), oxolinic acid (606), oxytetracycline (611), potassium hydroxyquinoline sulfate (446), probenazole (658), streptomycin (744), streptomycin sesquisulfate (744), tecloftalam (766) and thiomersal (alternative name) [CCN],

a biological agent selected from the group of substances consisting of *Adoxophyes orana* GV (alternative name) (12), *Agrobacterium radiobacter* (alternative name) (13), *Amblyseius* spp. (alternative name) (19), *Anagrapha falcifera* NPV (alternative name) (28), *Anagrus atomus* (alternative name) (29), *Aphelinus abdominalis* (alternative name) (33), *Aphidius colemani* (alternative name) (34), *Aphidoletes aphidimyza* (alternative name) (35), *Autographa californica* NPV (alternative name) (38), *Bacillus firmus* (alternative name) (48), *Bacillus sphaericus* Neide (scientific name) (49), *Bacillus thuringiensis* Berliner (scientific name) (51), *Bacillus thuringiensis* subsp. *aizawai* (scientific name) (51), *Bacillus thuringiensis* subsp. *israelensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *japonensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *kurstaki* (scientific name) (51), *Bacillus thuringiensis* subsp. *tenebrionis* (scientific name) (51), *Beauveria bassiana* (alternative name) (53), *Beauveria brongniartii* (alternative name) (54), *Chrysoperla carnea* (alternative name) (151), *Cryptolaemus montrouzieri* (alternative name) (178), *Cydia pomonella* GV (alternative name) (191), *Dacnusa sibirica* (alternative name) (212), *Diglyphus isaea* (alternative name) (254), *Encarsia formosa* (scientific name) (293), *Eretmocerus eremicus* (alternative name) (300), *Helicoverpa zea* NPV (alternative name) (431), *Heterorhabditis bacteriophora* and *H. megidis* (alternative name) (433), *Hippodamia convergens* (alternative name) (442), *Leptomastix dactylopii* (alternative name) (488), *Macrolophus caliginosus* (alternative name) (491), *Mamestra brassicae* NPV (alternative

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name) (494), *Metaphycus helvolus* (alternative name) (522), *Metarhizium anisopliae* var. *acridum* (scientific name) (523), *Metarhizium anisopliae* var. *anisopliae* (scientific name) (523), *Neodiprion sertifer* NPV and *N. lecontei* NPV (alternative name) (575), *Orius* spp. (alternative name) (596), *Paecilomyces fumosoroseus* (alternative name) (613), *Phytoseiulus persimilis* (alternative name) (644), *Spodoptera exigua* multicapsid nuclear polyhedrosis virus (scientific name) (741), *Steinernema bibionis* (alternative name) (742), *Steinernema carpocapsae* (alternative name) (742), *Steinernema feltiae* (alternative name) (742), *Steinernema glaseri* (alternative name) (742), *Steinernema riobrave* (alternative name) (742), *Steinernema riobravus* (alternative name) (742), *Steinernema scapterisci* (alternative name) (742), *Steinernema* spp. (alternative name) (742), *Trichogramma* spp. (alternative name) (826), *Typhlodromus occidentalis* (alternative name) (844) and *Verticillium lecanii* (alternative name) (848),

a soil sterilant selected from the group of substances consisting of iodomethane (IUPAC name) (542) and methyl bromide (537),

a chemosterilant selected from the group of substances consisting of apholate [CCN], bisazir (alternative name) [CCN], busulfan (alternative name) [CCN], diflubenzuron (250), dimatif (alternative name) [CCN], hemel [CCN], hempa [CCN], metepa [CCN], methiotepa [CCN], methyl apholate [CCN], morzid [CCN], penfluron (alternative name) [CCN], tepa [CCN], thiohempa (alternative name) [CCN], thiotepa (alternative name) [CCN], tretamine (alternative name) [CCN] and uredepa (alternative name) [CCN],

an insect pheromone selected from the group of substances consisting of (*E*)-dec-5-en-1-yl acetate with (*E*)-dec-5-en-1-ol (IUPAC name) (222), (*E*)-tridec-4-en-1-yl acetate (IUPAC name) (829), (*E*)-6-methylhept-2-en-4-ol (IUPAC name) (541), (*E,Z*)-tetradeca-4,10-dien-1-yl acetate (IUPAC name) (779), (*Z*)-dodec-7-en-1-yl acetate (IUPAC name) (285), (*Z*)-hexadec-11-enal (IUPAC name) (436), (*Z*)-hexadec-11-en-1-yl acetate (IUPAC name) (437), (*Z*)-hexadec-13-en-11-yn-1-yl acetate (IUPAC name) (438), (*Z*)-icos-13-en-10-one (IUPAC name) (448), (*Z*)-tetradec-7-en-1-al (IUPAC name) (782), (*Z*)-tetradec-9-en-1-ol (IUPAC name) (783), (*Z*)-tetradec-9-en-1-yl acetate (IUPAC name) (784), (*7E,9Z*)-dodeca-7,9-dien-1-yl acetate (IUPAC name) (283), (*9Z,11E*)-tetradeca-9,11-dien-1-yl acetate (IUPAC name) (780), (*9Z,12E*)-tetradeca-9,12-dien-1-yl acetate (IUPAC name) (781), 14-methyloctadec-1-ene (IUPAC name) (545), 4-methylnonan-5-ol with 4-methylnonan-5-one (IUPAC name) (544), alpha-multistriatin (alternative name) [CCN], brevicomin (alternative name) [CCN], codlelure (alternative name) [CCN], codlemone (alternative name) (167), cuelure (alternative name) (179), disparlure (277), dodec-8-en-1-yl acetate (IUPAC name)

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(286), dodec-9-en-1-yl acetate (IUPAC name) (287), dodeca-8,10-dien-1-yl acetate (IUPAC name) (284), dominicalure (alternative name) [CCN], ethyl 4-methyloctanoate (IUPAC name) (317), eugenol (alternative name) [CCN], frontaline (alternative name) [CCN], gossyplure (alternative name) (420), grandlure (421), grandlure I (alternative name) (421), grandlure II (alternative name) (421), grandlure III (alternative name) (421), grandlure IV (alternative name) (421), hexalure [CCN], ipsdienol (alternative name) [CCN], ipsenol (alternative name) [CCN], japonilure (alternative name) (481), lineatin (alternative name) [CCN], litlure (alternative name) [CCN], looplure (alternative name) [CCN], medlure [CCN], megatomoic acid (alternative name) [CCN], methyl eugenol (alternative name) (540), muscalure (563), octadeca-2,13-dien-1-yl acetate (IUPAC name) (588), octadeca-3,13-dien-1-yl acetate (IUPAC name) (589), orfralure (alternative name) [CCN], oryctalure (alternative name) (317), ostramone (alternative name) [CCN], siglure [CCN], sordidin (alternative name) (736), sulcatol (alternative name) [CCN], tetradec-11-en-1-yl acetate (IUPAC name) (785), trimedlure (839), trimedlure A (alternative name) (839), trimedlure B₁ (alternative name) (839), trimedlure B₂ (alternative name) (839), trimedlure C (alternative name) (839) and trunc-call (alternative name) [CCN],

an insect repellent selected from the group of substances consisting of 2-(octylthio)-ethanol (IUPAC name) (591), butopyronoxyl (933), butoxy(polypropylene glycol) (936), dibutyl adipate (IUPAC name) (1046), dibutyl phthalate (1047), dibutyl succinate (IUPAC name) (1048), diethyltoluamide [CCN], dimethyl carbate [CCN], dimethyl phthalate [CCN], ethyl hexanediol (1137), hexamide [CCN], methoquin-butyl (1276), methylneodecanamide [CCN], oxamate [CCN] and picaridin [CCN],

an insecticide selected from the group of substances consisting of 1,1-dichloro-1-nitroethane (IUPAC/Chemical Abstracts name) (1058), 1,1-dichloro-2,2-bis(4-ethylphenyl)-ethane (IUPAC name) (1056), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1-bromo-2-chloroethane (IUPAC/Chemical Abstracts name) (916), 2,2,2-trichloro-1-(3,4-dichlorophenyl)ethyl acetate (IUPAC name) (1451), 2,2-dichlorovinyl 2-ethylsulfinyethyl methyl phosphate (IUPAC name) (1066), 2-(1,3-dithiolan-2-yl)phenyl dimethylcarbamate (IUPAC/Chemical Abstracts name) (1109), 2-(2-butoxyethoxy)ethyl thiocyanate (IUPAC/Chemical Abstracts name) (935), 2-(4,5-dimethyl-1,3-dioxolan-2-yl)phenyl methylcarbamate (IUPAC/Chemical Abstracts name) (1084), 2-(4-chloro-3,5-xylyloxy)ethanol (IUPAC name) (986), 2-chlorovinyl diethyl phosphate (IUPAC name) (984), 2-imidazolidone (IUPAC name) (1225), 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 2-methyl(prop-2-ynyl)aminophenyl

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methylcarbamate (IUPAC name) (1284), 2-thiocyanatoethyl laurate (IUPAC name) (1433), 3-bromo-1-chloroprop-1-ene (IUPAC name) (917), 3-methyl-1-phenylpyrazol-5-yl dimethylcarbamate (IUPAC name) (1283), 4-methyl(prop-2-ynyl)amino-3,5-xylyl methylcarbamate (IUPAC name) (1285), 5,5-dimethyl-3-oxocyclohex-1-enyl dimethylcarbamate (IUPAC name) (1085), abamectin (1), acephate (2), acetamiprid (4), acethion (alternative name) [CCN], acetoprole [CCN], acrinathrin (9), acrylonitrile (IUPAC name) (861), alanycarb (15), aldicarb (16), aldoxycarb (863), aldrin (864), allethrin (17), allosamidin (alternative name) [CCN], allyxycarb (866), alpha-cypermethrin (202), alpha-ecdysone (alternative name) [CCN], aluminium phosphide (640), amidithion (870), amidothioate (872), aminocarb (873), amiton (875), amiton hydrogen oxalate (875), amitraz (24), anabasine (877), athidathion (883), AVI 382 (compound code), AZ 60541 (compound code), azadirachtin (alternative name) (41), azamethiphos (42), azinphos-ethyl (44), azinphos-methyl (45), azothoate (889), *Bacillus thuringiensis* delta endotoxins (alternative name) (52), barium hexafluorosilicate (alternative name) [CCN], barium polysulfide (IUPAC/Chemical Abstracts name) (892), barthrin [CCN], BAS 320 I (compound code), Bayer 22/190 (development code) (893), Bayer 22408 (development code) (894), bendiocarb (58), benfuracarb (60), bensultap (66), beta-cyfluthrin (194), beta-cypermethrin (203), bifenthrin (76), bioallethrin (78), bioallethrin S-cyclopentenyl isomer (alternative name) (79), bioethanomethrin [CCN], biopermethrin (908), bioresmethrin (80), bis(2-chloroethyl) ether (IUPAC name) (909), bistrifluron (83), borax (86), brofenvalerate (alternative name), bromfenvinfos (914), bromocyclen (918), bromo-DDT (alternative name) [CCN], bromophos (920), bromophos-ethyl (921), bufencarb (924), buprofezin (99), butacarb (926), butathiofos (927), butocarboxim (103), butonate (932), butoxycarboxim (104), butylpyridaben (alternative name), cadusafos (109), calcium arsenate [CCN], calcium cyanide (444), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbon disulfide (IUPAC/Chemical Abstracts name) (945), carbon tetrachloride (IUPAC name) (946), carbophenothion (947), carbosulfan (119), cartap (123), cartap hydrochloride (123), cevadine (alternative name) (725), chlorbicyclen (960), chlordane (128), chlordecone (963), chlordimeform (964), chlordimeform hydrochloride (964), chlorethoxyfos (129), chlorfenapyr (130), chlorfenvinphos (131), chlorfluazuron (132), chlormephos (136), chloroform [CCN], chloropicrin (141), chlorphoxim (989), chlorprazophos (990), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), chromafenozide (150), cinerin I (696), cinerin II (696), cinerins (696), cis-resmethrin (alternative name), cismethrin (80), clocythrin (alternative name), cloethocarb (999), closantel (alternative name) [CCN], clothianidin (165), copper

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acetoarsenite [CCN], copper arsenate [CCN], copper oleate [CCN], coumaphos (174), coumithoate (1006), crotamiton (alternative name) [CCN], crotoxyphos (1010), crufomate (1011), cryolite (alternative name) (177), CS 708 (development code) (1012), cyanofenphos (1019), cyanophos (184), cyanthoate (1020), cyclethrin [CCN], cycloprothrin (188), cyfluthrin (193), cyhalothrin (196), cypermethrin (201), cyphenothrin (206), cyromazine (209), cythioate (alternative name) [CCN], *d*-limonene (alternative name) [CCN], *d*-tetramethrin (alternative name) (788), DAEP (1031), dazomet (216), DDT (219), decarbofuran (1034), deltamethrin (223), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthiuron (226), dialifos (1042), diamidafos (1044), diazinon (227), dicapthon (1050), dichlofenthion (1051), dichlorvos (236), dicliphos (alternative name), dicresyl (alternative name) [CCN], dicrotophos (243), dicyclanil (244), dieldrin (1070), diethyl 5-methylpyrazol-3-yl phosphate (IUPAC name) (1076), diflubenzuron (250), dilor (alternative name) [CCN], dimefluthrin [CCN], dimefox (1081), dimetan (1085), dimethoate (262), dimethrin (1083), dimethylvinphos (265), dimetilan (1086), dinex (1089), dinex-diclexine (1089), dinoprop (1093), dinosam (1094), dinoseb (1095), dinotefuran (271), diofenolan (1099), dioxabenzofos (1100), dioxacarb (1101), dioxathion (1102), disulfoton (278), dithicrofos (1108), DNOC (282), doramectin (alternative name) [CCN], DSP (1115), ecdysterone (alternative name) [CCN], EI 1642 (development code) (1118), emamectin (291), emamectin benzoate (291), EMPC (1120), empenthrin (292), endosulfan (294), endothion (1121), endrin (1122), EPBP (1123), EPN (297), epofenonane (1124), eprinomectin (alternative name) [CCN], esfenvalerate (302), etaphos (alternative name) [CCN], ethiofencarb (308), ethion (309), ethiprole (310), ethoate-methyl (1134), ethoprophos (312), ethyl formate (IUPAC name) [CCN], ethyl-DDD (alternative name) (1056), ethylene dibromide (316), ethylene dichloride (chemical name) (1136), ethylene oxide [CCN], etofenprox (319), etrimfos (1142), EXD (1143), famphur (323), fenamiphos (326), fenazaflor (1147), fenchlorphos (1148), fenethacarb (1149), fenfluthrin (1150), fenitrothion (335), fenobucarb (336), fenoxacrim (1153), fenoxycarb (340), fenpirithrin (1155), fenpropathrin (342), fenpyrad (alternative name), fensulfothion (1158), fenthion (346), fenthion-ethyl [CCN], fenvalerate (349), fipronil (354), flonicamid (358), flucofuron (1168), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenerim [CCN], flufenoxuron (370), flufenprox (1171), flumethrin (372), fluvalinate (1184), FMC 1137 (development code) (1185), fonofos (1191), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), fosmethilan (1194), fospirate (1195),

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fosthiazate (408), fosthietan (1196), furathiocarb (412), furethrin (1200), gamma-cyhalothrin (197), gamma-HCH (430), guazatine (422), guazatine acetates (422), GY-81 (development code) (423), halfenprox (424), halofenozide (425), HCH (430), HEOD (1070), heptachlor (1211), heptenophos (432), heterophos [CCN], hexaflumuron (439), HHDN (864), hydramethylnon (443), hydrogen cyanide (444), hydroprene (445), hyquincarb (1223), imidacloprid (458), imiprothrin (460), indoxacarb (465), iodomethane (IUPAC name) (542), IPSP (1229), isazofos (1231), isobenzan (1232), isocarbophos (alternative name) (473), isodrin (1235), isofenphos (1236), isolane (1237), isoproc carb (472), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), isoprothiolane (474), isothioate (1244), isoxathion (480), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), juvenile hormone I (alternative name) [CCN], juvenile hormone II (alternative name) [CCN], juvenile hormone III (alternative name) [CCN], kelevan (1249), kinoprene (484), lambda-cyhalothrin (198), lead arsenate [CCN], leptophos (1250), lindane (430), lirimfos (1251), lufenuron (490), lythidathion (1253), *m*-cumenyl methylcarbamate (IUPAC name) (1014), magnesium phosphide (IUPAC name) (640), malathion (492), malonoben (1254), mazidox (1255), mecarbarn (502), mecarphon (1258), menazon (1260), mephosfolan (1261), mercurous chloride (513), mesulfenfos (1263), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methacrifos (1266), methamidophos (527), methanesulfonyl fluoride (IUPAC/Chemical Abstracts name) (1268), methidathion (529), methiocarb (530), methocrotophos (1273), methomyl (531), methoprene (532), methoquin-butyl (1276), methothrin (alternative name) (533), methoxychlor (534), methoxyfenozide (535), methyl bromide (537), methyl isothiocyanate (543), methylchloroform (alternative name) [CCN], methylene chloride [CCN], metofluthrin [CCN], metolcarb (550), metoxadiazone (1288), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), mirex (1294), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naftalofos (alternative name) [CCN], naled (567), naphthalene (IUPAC/Chemical Abstracts name) (1303), NC-170 (development code) (1306), NC-184 (compound code), nicotine (578), nicotine sulfate (578), nifluridide (1309), nitenpyram (579), nithiazine (1311), nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), nornicotine (traditional name) (1319), novaluron (585), noviflumuron (586), O-2,5-dichloro-4-iodophenyl O-ethyl ethylphosphonothioate (IUPAC name) (1057), O,O-diethyl O-4-methyl-2-oxo-2*H*-chromen-7-yl phosphorothioate (IUPAC name) (1074), O,O-diethyl O-6-methyl-2-propylpyrimidin-4-yl phosphorothioate (IUPAC name) (1075),

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O,O,O',O'-tetrapropyl dithiopyrophosphate (IUPAC name) (1424), oleic acid (IUPAC name) (593), omethoate (594), oxamyl (602), oxydemeton-methyl (609), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), para-dichlorobenzene [CCN], parathion (615), parathion-methyl (616), penfluron (alternative name) [CCN], pentachlorophenol (623), pentachlorophenyl laurate (IUPAC name) (623), permethrin (626), petroleum oils (alternative name) (628), PH 60-38 (development code) (1328), phenkapton (1330), phenothrin (630), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosnichlor (1339), phosphamidon (639), phosphine (IUPAC name) (640), phoxim (642), phoxim-methyl (1340), pirimetaphos (1344), pirimicarb (651), pirimiphos-ethyl (1345), pirimiphos-methyl (652), polychlorodicyclopentadiene isomers (IUPAC name) (1346), polychloroterpenes (traditional name) (1347), potassium arsenite [CCN], potassium thiocyanate [CCN], prallethrin (655), precocene I (alternative name) [CCN], precocene II (alternative name) [CCN], precocene III (alternative name) [CCN], primidophos (1349), profenofos (662), profluthrin [CCN], promacyl (1354), promecarb (1355), propaphos (1356), propetamphos (673), propoxur (678), prothidathion (1360), prothiofos (686), prothoate (1362), protrifenbute [CCN], pymetrozine (688), pyraclofos (689), pyrazophos (693), pyresmethrin (1367), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridalyl (700), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), pyriproxyfen (708), quassia (alternative name) [CCN], quinalphos (711), quinalphos-methyl (1376), quinothion (1380), quintiofos (1381), R-1492 (development code) (1382), rafoxanide (alternative name) [CCN], resmethrin (719), rotenone (722), RU 15525 (development code) (723), RU 25475 (development code) (1386), ryania (alternative name) (1387), ryanodine (traditional name) (1387), sabadilla (alternative name) (725), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), silafluofen (728), SN 72129 (development code) (1397), sodium arsenite [CCN], sodium cyanide (444), sodium fluoride (IUPAC/Chemical Abstracts name) (1399), sodium hexafluorosilicate (1400), sodium pentachlorophenoxide (623), sodium selenate (IUPAC name) (1401), sodium thiocyanate [CCN], sophamide (1402), spinosad (737), spiromesifen (739), sulcofuron (746), sulcofuron-sodium (746), sulfluramid (750), sulfotep (753), sulfuryl fluoride (756), sulprofos (1408), tar oils (alternative name) (758), tau-fluvalinate (398), tazimcarb (1412), TDE (1414), tebufenozide (762), tebufenpyrad (763), tebupirimfos (764), teflubenzuron (768), tefluthrin (769), temephos (770), TEPP (1417), terallethrin (1418), terbam (alternative name), terbufos (773), tetrachloroethane [CCN], tetrachlorvinphos (777), tetramethrin (787), theta-cypermethrin (204), thiacloprid (791), thiafenox (alternative name),

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thiamethoxam (792), thicrofos (1428), thiocarboxime (1431), thiocyclam (798), thiocyclam hydrogen oxalate (798), thiodicarb (799), thiofanox (800), thiometon (801), thionazin (1434), thiosultap (803), thiosultap-sodium (803), thuringiensin (alternative name) [CCN], tolfenpyrad (809), tralomethrin (812), transfluthrin (813), transpermethrin (1440), triamiphos (1441), triazamate (818), triazophos (820), triazuron (alternative name), trichlorfon (824), trichlormetaphos-3 (alternative name) [CCN], trichloronat (1452), trifenofos (1455), triflumuron (835), trimethacarb (840), triprene (1459), vamidothion (847), vanilprole [CCN], veratridine (alternative name) (725), veratrine (alternative name) (725), XMC (853), xylylcarb (854), YI-5302 (compound code), zeta-cypermethrin (205), zetamethrin (alternative name), zinc phosphide (640), zolaprofos (1469) and ZXI 8901 (development code) (858),

a molluscicide selected from the group of substances consisting of bis(tributyltin) oxide (IUPAC name) (913), bromoacetamide [CCN], calcium arsenate [CCN], cloethocarb (999), copper acetoarsenite [CCN], copper sulfate (172), fentin (347), ferric phosphate (IUPAC name) (352), metaldehyde (518), methiocarb (530), niclosamide (576), niclosamide-olamine (576), pentachlorophenol (623), sodium pentachlorophenoxide (623), tazimcarb (1412), thiodicarb (799), tributyltin oxide (913), trifenmorph (1454), trimethacarb (840), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

a nematicide selected from the group of substances consisting of 1,2-dibromo-3-chloropropane (IUPAC/Chemical Abstracts name) (1045), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1,3-dichloropropene (233), 3,4-dichlorotetrahydrothiophene 1,1-dioxide (IUPAC/Chemical Abstracts name) (1065), 3-(4-chlorophenyl)-5-methylrhodanine (IUPAC name) (980), 5-methyl-6-thioxo-1,3,5-thiadiazinan-3-ylacetic acid (IUPAC name) (1286), 6-isopentenylaminopurine (alternative name) (210), abamectin (1), acetoprole [CCN], alanycarb (15), aldicarb (16), aldoxycarb (863), AZ 60541 (compound code), benclothiaz [CCN], benomyl (62), butylpyridaben (alternative name), cadusafos (109), carbofuran (118), carbon disulfide (945), carbosulfan (119), chloropicrin (141), chlorpyrifos (145), cloethocarb (999), cytokinins (alternative name) (210), dazomet (216), DBCP (1045), DCIP (218), diamidafos (1044), dichlofenthion (1051), dicliphos (alternative name), dimethoate (262), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ethoprophos (312), ethylene dibromide (316), fenamiphos (326), fenpyrad (alternative name), fensulfothion (1158), fosthiazate (408), fosthietan (1196), furfural (alternative name) [CCN], GY-81 (development code) (423), heterophos [CCN], iodomethane (IUPAC name) (542), isamidofos (1230), isazofos (1231),

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ivermectin (alternative name) [CCN], kinetin (alternative name) (210), mecarphon (1258), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methyl bromide (537), methyl isothiocyanate (543), milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], *Myrothecium verrucaria* composition (alternative name) (565), NC-184 (compound code), oxamyl (602), phorate (636), phosphamidon (639), phosphocarb [CCN], sebufos (alternative name), selamectin (alternative name) [CCN], spinosad (737), terbam (alternative name), terbufos (773), tetrachlorothiophene (IUPAC/ Chemical Abstracts name) (1422), thiafenox (alternative name), thionazin (1434), triazophos (820), triazuron (alternative name), xlenols [CCN], YI-5302 (compound code) and zeatin (alternative name) (210),

a nitrification inhibitor selected from the group of substances consisting of potassium ethylxanthate [CCN] and nitrapyrin (580),

a plant activator selected from the group of substances consisting of acibenzolar (6), acibenzolar-S-methyl (6), probenazole (658) and *Reynoutria sachalinensis* extract (alternative name) (720),

a rodenticide selected from the group of substances consisting of 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), alpha-chlorohydrin [CCN], aluminium phosphide (640), antu (880), arsenous oxide (882), barium carbonate (891), bithiosemi (912), brodifacoum (89), bromadiolone (91), bromethalin (92), calcium cyanide (444), chloralose (127), chlorophacinone (140), cholecalciferol (alternative name) (850), coumachlor (1004), coumafuryl (1005), coumatetralyl (175), crimidine (1009), difenacoum (246), difethialone (249), diphacinone (273), ergocalciferol (301), flocoumafen (357), fluoroacetamide (379), flupropadine (1183), flupropadine hydrochloride (1183), gamma-HCH (430), HCH (430), hydrogen cyanide (444), iodomethane (IUPAC name) (542), lindane (430), magnesium phosphide (IUPAC name) (640), methyl bromide (537), norbormide (1318), phosacetim (1336), phosphine (IUPAC name) (640), phosphorus [CCN], pindone (1341), potassium arsenite [CCN], pyrinuron (1371), scilliroside (1390), sodium arsenite [CCN], sodium cyanide (444), sodium fluoroacetate (735), strychnine (745), thallium sulfate [CCN], warfarin (851) and zinc phosphide (640),

a synergist selected from the group of substances consisting of 2-(2-butoxyethoxy)-ethyl piperonylate (IUPAC name) (934), 5-(1,3-benzodioxol-5-yl)-3-hexylcyclohex-2-enone (IUPAC name) (903), farnesol with nerolidol (alternative name) (324), MB-599 (development code) (498), MGK 264 (development code) (296), piperonyl butoxide (649), piprotal (1343),

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propyl isomer (1358), S421 (development code) (724), sesamex (1393), sesasmolin (1394) and sulfoxide (1406),

an animal repellent selected from the group of substances consisting of anthraquinone (32), chloralose (127), copper naphthenate [CCN], copper oxychloride (171), diazinon (227), dicyclopentadiene (chemical name) (1069), guazatine (422), guazatine acetates (422), methiocarb (530), pyridin-4-amine (IUPAC name) (23), thiram (804), trimethacarb (840), zinc naphthenate [CCN] and ziram (856),

a virucide selected from the group of substances consisting of imanin (alternative name) [CCN] and ribavirin (alternative name) [CCN],

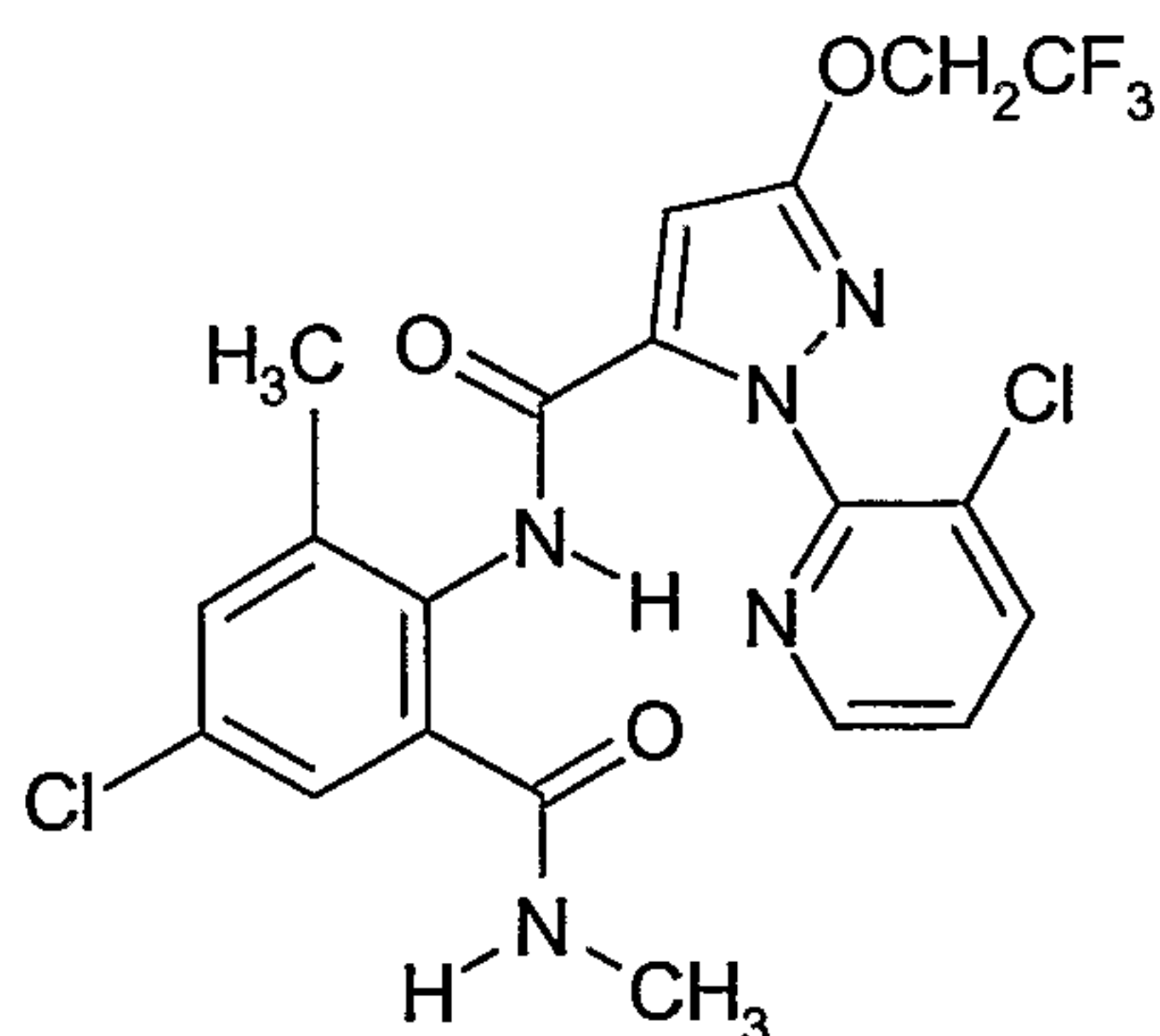
and a wound protectant selected from the group of substances consisting of mercuric oxide (512), octhilinone (590) and thiophanate-methyl (802).

A very especially preferred embodiment of the subject-matter {1.1.13} of the invention is {1.1.13.2} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-13) and the compound (B) is a compound selected from the group of substances consisting of abamectin (1), cyromazine (209), diafenthiuron (226), diazinon (227), emamectin benzoate (291), fenoxycarb (340), fosthiazate (408), lambda-cyhalothrin (198), lufenuron (490), methidathion (529), profenofos (662), pymetrozine (688), tefluthrin (769) and thiamethoxam (792).

The compound of formula (A-13) is known, for example, from the PCT Application WO-03/015519.

A preferred embodiment of the subject-matter {1.1} of the invention is {1.1.14} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-14)

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(A-14)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

An especially preferred embodiment of the subject-matter {1.1.14} of the invention is {1.1.14.1} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-14) and the compound (B) is a compound selected from the group of substances consisting of

an adjuvant selected from the group of substances consisting of petroleum oils (alternative name) (628),

an acaricide selected from the group of substances consisting of 1,1-bis(4-chlorophenyl)-2-ethoxyethanol (IUPAC name) (910), 2,4-dichlorophenyl benzenesulfonate (IUPAC/Chemical Abstracts name) (1059), 2-fluoro-*N*-methyl-*N*-1-naphthylacetamide (IUPAC name) (1295), 4-chlorophenyl phenyl sulfone (IUPAC name) (981), abamectin (1), acequinocyl (3), acetoprole [CCN], acrinathrin (9), aldicarb (16), aldoxycarb (863), alpha-cypermethrin (202), amidithion (870), amidoflumet [CCN], amidothioate (872), amiton (875), amiton hydrogen oxalate (875), amitraz (24), aramite (881), arsenous oxide (882), AVI 382 (compound code), AZ 60541 (compound code), azinphos-ethyl (44), azinphos-methyl (45), azobenzene (IUPAC name) (888), azocyclotin (46), azothoate (889), benomyl (62), benoxafos (alternative name) [CCN], benzoximate (71), benzyl benzoate (IUPAC name) [CCN], bifenazate (74), bifenthrin (76), binapacryl (907), brofenvalerate (alternative name), bromocyclen (918), bromophos (920), bromophos-ethyl (921), bromopropylate (94), buprofezin (99), butocarboxim (103), butoxycarboxim (104), butylpyridaben (alternative name), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115),

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carbofuran (118), carbophenothion (947), CGA 50'439 (development code) (125), chino-methionat (126), chlorbenside (959), chlordimeform (964), chlordimeform hydrochloride (964), chlorfenapyr (130), chlorfenethol (968), chlorfenson (970), chlorfensulphide (971), chlorfenvinphos (131), chlorobenzilate (975), chloromebuform (977), chloromethiuron (978), chloropropylate (983), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), cinerin I (696), cinerin II (696), cinerins (696), clofentezine (158), closantel (alternative name) [CCN], coumaphos (174), crotamiton (alternative name) [CCN], crotoxyphos (1010), cufraneb (1013), cyanthoate (1020), cyhalothrin (196), cyhexatin (199), cypermethrin (201), DCPM (1032), DDT (219), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafen-thiuron (226), dialifos (1042), diazinon (227), dichlofluanid (230), dichlorvos (236), dicliphos (alternative name), dicofol (242), dicrotophos (243), dienochlor (1071), dimefox (1081), dimethoate (262), dinactin (alternative name) (653), dinex (1089), dinex-diclexine (1089), dinobuton (269), dinocap (270), dinocap-4 [CCN], dinocap-6 [CCN], dinocron (1090), dinopenton (1092), dinosulfon (1097), dinoterbon (1098), dioxathion (1102), diphenyl sulfone (IUPAC name) (1103), disulfiram (alternative name) [CCN], disulfoton (278), DNOC (282), dofenapyn (1113), doramectin (alternative name) [CCN], endosulfan (294), endothion (1121), EPN (297), eprinomectin (alternative name) [CCN], ethion (309), ethoate-methyl (1134), etoxazole (320), etrimfos (1142), fenazaflor (1147), fenazaquin (328), fenbutatin oxide (330), fenothiocarb (337), fenpropathrin (342), fenpyrad (alternative name), fenpyroximate (345), fenson (1157), fentrifanil (1161), fenvalerate (349), fipronil (354), fluacrypyrim (360), fluazuron (1166), flubenzimine (1167), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenoxuron (370), flumethrin (372), fluorbenside (1174), fluvalinate (1184), FMC 1137 (development code) (1185), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), gamma-HCH (430), glyodin (1205), halfenprox (424), heptenophos (432), hexadecyl cyclopropanecarboxylate (IUPAC/Chemical Abstracts name) (1216), hexythiazox (441), iodomethane (IUPAC name) (542), isocarbophos (alternative name) (473), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), lindane (430), lufenuron (490), malathion (492), malonoben (1254), mecarbam (502), mephosfolan (1261), mesulfen (alternative name) [CCN], methacrifos (1266), methamidophos (527), methidathion (529), methiocarb (530), methomyl (531), methyl bromide (537), metolcarb (550), mevinphos (556), mexacarbate (1290), milbemectin

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(557), milbemycin oxime (alternative name) [CCN], mipafox (1293), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naled (567), NC-184 (compound code), nifluridide (1309), nikkomycins (alternative name) [CCN], nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), omethoate (594), oxamyl (602), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), parathion (615), permethrin (626), petroleum oils (alternative name) (628), phenkapton (1330), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosphamidon (639), phoxim (642), pirimiphos-methyl (652), polychloroterpenes (traditional name) (1347), polynactins (alternative name) (653), proclonol (1350), profenofos (662), promacyl (1354), propargite (671), propetamphos (673), propoxur (678), prothidathion (1360), prothoate (1362), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), quinalphos (711), quintiofos (1381), R-1492 (development code) (1382), RA-17 (development code) (1383), rotenone (722), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), sophamide (1402), spirodiclofen (738), spiromesifen (739), SSI-121 (development code) (1404), sulfiram (alternative name) [CCN], sulfluramid (750), sulfotep (753), sulfur (754), SZI-121 (development code) (757), tau-fluvalinate (398), tebufenpyrad (763), TEPP (1417), terbam (alternative name), tetrachlorvinphos (777), tetradifon (786), tetranactin (alternative name) (653), tetrasul (1425), thiafenox (alternative name), thiocarboxime (1431), thiofanox (800), thiometon (801), thioquinox (1436), thuringiensin (alternative name) [CCN], triamiphos (1441), triarathene (1443), triazophos (820), triazuron (alternative name), trichlorfon (824), trifenofos (1455), trinactin (alternative name) (653), vamidothion (847), vaniliprole [CCN] and YI-5302 (compound code),

an algicide selected from the group of substances consisting of bethoxazin [CCN], copper dioctanoate (IUPAC name) (170), copper sulfate (172), cybutryne [CCN], dichlone (1052), dichlorophen (232), endothal (295), fentin (347), hydrated lime [CCN], nabam (566), quinoxamine (714), quinonamid (1379), simazine (730), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

an anthelmintic selected from the group of substances consisting of abamectin (1), crufomate (1011), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ivermectin (alternative name) [CCN], milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], piperazine [CCN], selamectin (alternative name) [CCN], spinosad (737) and thiophanate (1435),

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an avicide selected from the group of substances consisting of chloralose (127), endrin (1122), fenthion (346), pyridin-4-amine (IUPAC name) (23) and strychnine (745),

a bactericide selected from the group of substances consisting of 1-hydroxy-1H-pyridine-2-thione (IUPAC name) (1222), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), 8-hydroxyquinoline sulfate (446), bronopol (97), copper dioctanoate (IUPAC name) (170), copper hydroxide (IUPAC name) (169), cresol [CCN], dichlorophen (232), dipyrithione (1105), dodicin (1112), fenaminosulf (1144), formaldehyde (404), hydrargaphen (alternative name) [CCN], kasugamycin (483), kasugamycin hydrochloride hydrate (483), nickel bis(dimethyldithiocarbamate) (IUPAC name) (1308), nitrapyrin (580), oclothilone (590), oxolinic acid (606), oxytetracycline (611), potassium hydroxyquinoline sulfate (446), probenazole (658), streptomycin (744), streptomycin sesquisulfate (744), tecloftalam (766) and thiomersal (alternative name) [CCN],

a biological agent selected from the group of substances consisting of *Adoxophyes orana* GV (alternative name) (12), *Agrobacterium radiobacter* (alternative name) (13), *Amblyseius* spp. (alternative name) (19), *Anagrapha falcifera* NPV (alternative name) (28), *Anagrus atomus* (alternative name) (29), *Aphelinus abdominalis* (alternative name) (33), *Aphidius colemani* (alternative name) (34), *Aphidoletes aphidimyza* (alternative name) (35), *Autographa californica* NPV (alternative name) (38), *Bacillus firmus* (alternative name) (48), *Bacillus sphaericus* Neide (scientific name) (49), *Bacillus thuringiensis* Berliner (scientific name) (51), *Bacillus thuringiensis* subsp. *aizawai* (scientific name) (51), *Bacillus thuringiensis* subsp. *israelensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *japonensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *kurstaki* (scientific name) (51), *Bacillus thuringiensis* subsp. *tenebrionis* (scientific name) (51), *Beauveria bassiana* (alternative name) (53), *Beauveria brongniartii* (alternative name) (54), *Chrysoperla carnea* (alternative name) (151), *Cryptolaemus montrouzieri* (alternative name) (178), *Cydia pomonella* GV (alternative name) (191), *Dacnusa sibirica* (alternative name) (212), *Diglyphus isaea* (alternative name) (254), *Encarsia formosa* (scientific name) (293), *Eretmocerus eremicus* (alternative name) (300), *Helicoverpa zea* NPV (alternative name) (431), *Heterorhabditis bacteriophora* and *H. megidis* (alternative name) (433), *Hippodamia convergens* (alternative name) (442), *Leptomastix dactylopii* (alternative name) (488), *Macrolophus caliginosus* (alternative name) (491), *Mamestra brassicae* NPV (alternative name) (494), *Metaphycus helvolus* (alternative name) (522), *Metarhizium anisopliae* var. *acridum* (scientific name) (523), *Metarhizium anisopliae* var. *anisopliae* (scientific name) (523), *Neodiprion sertifer* NPV and *N. lecontei* NPV (alternative name) (575), *Orius* spp.

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(alternative name) (596), *Paecilomyces fumosoroseus* (alternative name) (613), *Phytoseiulus persimilis* (alternative name) (644), *Spodoptera exigua* multicapsid nuclear polyhedrosis virus (scientific name) (741), *Steinernema bibionis* (alternative name) (742), *Steinernema carpocapsae* (alternative name) (742), *Steinernema feltiae* (alternative name) (742), *Steinernema glaseri* (alternative name) (742), *Steinernema riobrave* (alternative name) (742), *Steinernema riobravus* (alternative name) (742), *Steinernema scapterisci* (alternative name) (742), *Steinernema* spp. (alternative name) (742), *Trichogramma* spp. (alternative name) (826), *Typhlodromus occidentalis* (alternative name) (844) and *Verticillium lecanii* (alternative name) (848),

a soil sterilant selected from the group of substances consisting of iodomethane (IUPAC name) (542) and methyl bromide (537),

a chemosterilant selected from the group of substances consisting of apholate [CCN], bisazir (alternative name) [CCN], busulfan (alternative name) [CCN], diflubenzuron (250), dimatif (alternative name) [CCN], hemel [CCN], hempa [CCN], metepa [CCN], methiotepa [CCN], methyl apholate [CCN], morzid [CCN], penfluron (alternative name) [CCN], tepa [CCN], thiohempa (alternative name) [CCN], thiotepa (alternative name) [CCN], tretamine (alternative name) [CCN] and uredepa (alternative name) [CCN],

an insect pheromone selected from the group of substances consisting of (*E*)-dec-5-en-1-yl acetate with (*E*)-dec-5-en-1-ol (IUPAC name) (222), (*E*)-tridec-4-en-1-yl acetate (IUPAC name) (829), (*E*)-6-methylhept-2-en-4-ol (IUPAC name) (541), (*E,Z*)-tetradeca-4,10-dien-1-yl acetate (IUPAC name) (779), (*Z*)-dodec-7-en-1-yl acetate (IUPAC name) (285), (*Z*)-hexadec-11-enal (IUPAC name) (436), (*Z*)-hexadec-11-en-1-yl acetate (IUPAC name) (437), (*Z*)-hexadec-13-en-11-yn-1-yl acetate (IUPAC name) (438), (*Z*)-icos-13-en-10-one (IUPAC name) (448), (*Z*)-tetradec-7-en-1-al (IUPAC name) (782), (*Z*)-tetradec-9-en-1-ol (IUPAC name) (783), (*Z*)-tetradec-9-en-1-yl acetate (IUPAC name) (784), (*7E,9Z*)-dodeca-7,9-dien-1-yl acetate (IUPAC name) (283), (*9Z,11E*)-tetradeca-9,11-dien-1-yl acetate (IUPAC name) (780), (*9Z,12E*)-tetradeca-9,12-dien-1-yl acetate (IUPAC name) (781), 14-methyloctadec-1-ene (IUPAC name) (545), 4-methylnonan-5-ol with 4-methylnonan-5-one (IUPAC name) (544), alpha-multistriatin (alternative name) [CCN], brevicomin (alternative name) [CCN], codlelure (alternative name) [CCN], codlemone (alternative name) (167), cuelure (alternative name) (179), disparlure (277), dodec-8-en-1-yl acetate (IUPAC name) (286), dodec-9-en-1-yl acetate (IUPAC name) (287), dodeca-8,10-dien-1-yl acetate (IUPAC name) (284), dominicalure (alternative name) [CCN], ethyl 4-methyloctanoate (IUPAC name) (317), eugenol (alternative name) [CCN], frontalinal (alternative name) [CCN], gossyplure

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(alternative name) (420), grandlure (421), grandlure I (alternative name) (421), grandlure II (alternative name) (421), grandlure III (alternative name) (421), grandlure IV (alternative name) (421), hexalure [CCN], ipsdienol (alternative name) [CCN], ipsenol (alternative name) [CCN], japonilure (alternative name) (481), lineatin (alternative name) [CCN], litlure (alternative name) [CCN], looplure (alternative name) [CCN], medlure [CCN], megatomoic acid (alternative name) [CCN], methyl eugenol (alternative name) (540), muscalure (563), octadeca-2,13-dien-1-yl acetate (IUPAC name) (588), octadeca-3,13-dien-1-yl acetate (IUPAC name) (589), orfralure (alternative name) [CCN], oryctalure (alternative name) (317), ostramone (alternative name) [CCN], siglure [CCN], sordidin (alternative name) (736), sulcatol (alternative name) [CCN], tetradec-11-en-1-yl acetate (IUPAC name) (785), trimedlure (839), trimedlure A (alternative name) (839), trimedlure B₁ (alternative name) (839), trimedlure B₂ (alternative name) (839), trimedlure C (alternative name) (839) and trunc-call (alternative name) [CCN],

an insect repellent selected from the group of substances consisting of 2-(octylthio)-ethanol (IUPAC name) (591), butopyronoxyl (933), butoxy(polypropylene glycol) (936), dibutyl adipate (IUPAC name) (1046), dibutyl phthalate (1047), dibutyl succinate (IUPAC name) (1048), diethyltoluamide [CCN], dimethyl carbate [CCN], dimethyl phthalate [CCN], ethyl hexanediol (1137), hexamide [CCN], methoquin-butyl (1276), methylneodecanamide [CCN], oxamate [CCN] and picaridin [CCN],

an insecticide selected from the group of substances consisting of 1,1-dichloro-1-nitroethane (IUPAC/Chemical Abstracts name) (1058), 1,1-dichloro-2,2-bis(4-ethylphenyl)-ethane (IUPAC name) (1056), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1-bromo-2-chloroethane (IUPAC/Chemical Abstracts name) (916), 2,2,2-trichloro-1-(3,4-dichlorophenyl)ethyl acetate (IUPAC name) (1451), 2,2-dichlorovinyl 2-ethylsulfinylethyl methyl phosphate (IUPAC name) (1066), 2-(1,3-dithiolan-2-yl)phenyl dimethylcarbamate (IUPAC/Chemical Abstracts name) (1109), 2-(2-butoxyethoxy)ethyl thiocyanate (IUPAC/Chemical Abstracts name) (935), 2-(4,5-dimethyl-1,3-dioxolan-2-yl)phenyl methylcarbamate (IUPAC/Chemical Abstracts name) (1084), 2-(4-chloro-3,5-xylyloxy)ethanol (IUPAC name) (986), 2-chlorovinyl diethyl phosphate (IUPAC name) (984), 2-imidazolidone (IUPAC name) (1225), 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 2-methyl(prop-2-ynyl)aminophenyl methylcarbamate (IUPAC name) (1284), 2-thiocyanatoethyl laurate (IUPAC name) (1433), 3-bromo-1-chloroprop-1-ene (IUPAC name) (917), 3-methyl-1-phenylpyrazol-5-yl dimethylcarbamate (IUPAC name) (1283), 4-methyl(prop-2-ynyl)amino-3,5-xylyl methylcarbamate

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(IUPAC name) (1285), 5,5-dimethyl-3-oxocyclohex-1-enyl dimethylcarbamate (IUPAC name) (1085), abamectin (1), acephate (2), acetamiprid (4), acethion (alternative name) [CCN], acetoprole [CCN], acrinathrin (9), acrylonitrile (IUPAC name) (861), alanycarb (15), aldicarb (16), aldoxycarb (863), aldrin (864), allethrin (17), allosamidin (alternative name) [CCN], allyxycarb (866), alpha-cypermethrin (202), alpha-ecdysone (alternative name) [CCN], aluminium phosphide (640), amidithion (870), amidothioate (872), aminocarb (873), amiton (875), amiton hydrogen oxalate (875), amitraz (24), anabasine (877), athidathion (883), AVI 382 (compound code), AZ 60541 (compound code), azadirachtin (alternative name) (41), azamethiphos (42), azinphos-ethyl (44), azinphos-methyl (45), azothoate (889), *Bacillus thuringiensis* delta endotoxins (alternative name) (52), barium hexafluorosilicate (alternative name) [CCN], barium polysulfide (IUPAC/Chemical Abstracts name) (892), barthrin [CCN], BAS 320 I (compound code), Bayer 22/190 (development code) (893), Bayer 22408 (development code) (894), bendiocarb (58), benfuracarb (60), bensultap (66), beta-cyfluthrin (194), beta-cypermethrin (203), bifenthrin (76), bioallethrin (78), bioallethrin S-cyclopentenyl isomer (alternative name) (79), bioethanomethrin [CCN], biopermethrin (908), bioresmethrin (80), bis(2-chloroethyl) ether (IUPAC name) (909), bistrifluron (83), borax (86), brofenvalerate (alternative name), bromfenvinfos (914), bromocyclen (918), bromo-DDT (alternative name) [CCN], bromophos (920), bromophos-ethyl (921), bufencarb (924), buprofezin (99), butacarb (926), butathiofos (927), butocarboxim (103), butonate (932), butoxycarboxim (104), butylpyridaben (alternative name), cadusafos (109), calcium arsenate [CCN], calcium cyanide (444), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbon disulfide (IUPAC/Chemical Abstracts name) (945), carbon tetrachloride (IUPAC name) (946), carbophenothion (947), carbosulfan (119), cartap (123), cartap hydrochloride (123), cevadine (alternative name) (725), chlorbicyclen (960), chlordane (128), chlordecone (963), chlordimeform (964), chlordimeform hydrochloride (964), chlorethoxyfos (129), chlorfenapyr (130), chlorfenvinphos (131), chlorfluazuron (132), chlormephos (136), chloroform [CCN], chloropicrin (141), chlorphoxim (989), chlorprazophos (990), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), chromafenozide (150), cinerin I (696), cinerin II (696), cinerins (696), cis-resmethrin (alternative name), cismethrin (80), clocythrin (alternative name), cloethocarb (999), closantel (alternative name) [CCN], clothianidin (165), copper acetoarsenite [CCN], copper arsenate [CCN], copper oleate [CCN], coumaphos (174), coumithoate (1006), crotamiton (alternative name) [CCN], crotoxyphos (1010), cruformate (1011), cryolite (alternative name) (177), CS 708 (development code) (1012), cyanofenphos

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(1019), cyanophos (184), cyanthoate (1020), cyclethrin [CCN], cycloprothrin (188), cyfluthrin (193), cyhalothrin (196), cypermethrin (201), cyphenothrin (206), cyromazine (209), cythioate (alternative name) [CCN], *d*-limonene (alternative name) [CCN], *d*-tetramethrin (alternative name) (788), DAEP (1031), dazomet (216), DDT (219), decarbofuran (1034), deltamethrin (223), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthiuron (226), dialifos (1042), diamidafos (1044), diazinon (227), dicapthon (1050), dichlofenthion (1051), dichlorvos (236), dicliphos (alternative name), dicresyl (alternative name) [CCN], dicrotophos (243), dicyclanil (244), dieldrin (1070), diethyl 5-methylpyrazol-3-yl phosphate (IUPAC name) (1076), diflubenzuron (250), dilor (alternative name) [CCN], dimefluthrin [CCN], dimefox (1081), dimetan (1085), dimethoate (262), dimethrin (1083), dimethylvinphos (265), dimetilan (1086), dinex (1089), dinex-diclexine (1089), dinoprop (1093), dinosam (1094), dinoseb (1095), dinotefuran (271), diofenolan (1099), dioxabenzofos (1100), dioxacarb (1101), dioxathion (1102), disulfoton (278), dithicrofos (1108), DNOC (282), doramectin (alternative name) [CCN], DSP (1115), ecdysterone (alternative name) [CCN], EI 1642 (development code) (1118), emamectin (291), emamectin benzoate (291), EMPC (1120), empenthrin (292), endosulfan (294), endothion (1121), endrin (1122), EPBP (1123), EPN (297), epofenonane (1124), eprinomectin (alternative name) [CCN], esfenvalerate (302), etaphos (alternative name) [CCN], ethiofencarb (308), ethion (309), ethiprole (310), ethoate-methyl (1134), ethoprophos (312), ethyl formate (IUPAC name) [CCN], ethyl-DDD (alternative name) (1056), ethylene dibromide (316), ethylene dichloride (chemical name) (1136), ethylene oxide [CCN], etofenprox (319), etrimfos (1142), EXD (1143), famphur (323), fenamiphos (326), fenazaflor (1147), fenchlorphos (1148), fenethacarb (1149), fenfluthrin (1150), fenitrothion (335), fenobucarb (336), fenoxacrim (1153), fenoxycarb (340), fenpirithrin (1155), fenpropathrin (342), fenpyrad (alternative name), fensulfothion (1158), fenthion (346), fenthion-ethyl [CCN], fenvalerate (349), fipronil (354), flonicamid (358), flucofuron (1168), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenerim [CCN], flufenoxuron (370), flufenprox (1171), flumethrin (372), fluvalinate (1184), FMC 1137 (development code) (1185), fonofos (1191), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), fosmethilan (1194), fospirate (1195), fothiazate (408), fothietan (1196), furathiocarb (412), furethrin (1200), gamma-cyhalothrin (197), gamma-HCH (430), guazatine (422), guazatine acetates (422), GY-81 (development code) (423), halfenprox (424), halofenozide (425), HCH (430), HEOD (1070), heptachlor

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(1211), heptenophos (432), heterophos [CCN], hexaflumuron (439), HHDN (864), hydramethylnon (443), hydrogen cyanide (444), hydroprene (445), hyquincarb (1223), imidacloprid (458), imiprothrin (460), indoxacarb (465), iodomethane (IUPAC name) (542), IPSP (1229), isazofos (1231), isobenzan (1232), isocarbophos (alternative name) (473), isodrin (1235), isofenphos (1236), isolane (1237), isoprocab (472), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), isoprothiolane (474), isothioate (1244), isoxathion (480), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), juvenile hormone I (alternative name) [CCN], juvenile hormone II (alternative name) [CCN], juvenile hormone III (alternative name) [CCN], kelevan (1249), kinoprene (484), lambda-cyhalothrin (198), lead arsenate [CCN], leptophos (1250), lindane (430), lirimfos (1251), lufenuron (490), lythidathion (1253), *m*-cumenyl methylcarbamate (IUPAC name) (1014), magnesium phosphide (IUPAC name) (640), malathion (492), malonoben (1254), mazidox (1255), mecarbam (502), mecarphon (1258), menazon (1260), mephosfolan (1261), mercurous chloride (513), mesulfenfos (1263), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methacrifos (1266), methamidophos (527), methanesulfonyl fluoride (IUPAC/Chemical Abstracts name) (1268), methidathion (529), methiocarb (530), methocrotophos (1273), methomyl (531), methoprene (532), methoquin-butyl (1276), methothrin (alternative name) (533), methoxychlor (534), methoxyfenozide (535), methyl bromide (537), methyl isothiocyanate (543), methylchloroform (alternative name) [CCN], methylene chloride [CCN], metofluthrin [CCN], metolcarb (550), metoxadiazone (1288), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), mirex (1294), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naftalofos (alternative name) [CCN], naled (567), naphthalene (IUPAC/Chemical Abstracts name) (1303), NC-170 (development code) (1306), NC-184 (compound code), nicotine (578), nicotine sulfate (578), nifluridide (1309), nitenpyram (579), nithiazine (1311), nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), nornicotine (traditional name) (1319), novaluron (585), noviflumuron (586), O-2,5-dichloro-4-iodophenyl O-ethyl ethylphosphonothioate (IUPAC name) (1057), O,O-diethyl O-4-methyl-2-oxo-2*H*-chromen-7-yl phosphorothioate (IUPAC name) (1074), O,O-diethyl O-6-methyl-2-propylpyrimidin-4-yl phosphorothioate (IUPAC name) (1075), O,O,O',O'-tetrapropyl dithiopyrophosphate (IUPAC name) (1424), oleic acid (IUPAC name) (593), omethoate (594), oxamyl (602), oxydemeton-methyl (609), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), para-dichlorobenzene [CCN], parathion (615),

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parathion-methyl (616), penfluron (alternative name) [CCN], pentachlorophenol (623), pentachlorophenyl laurate (IUPAC name) (623), permethrin (626), petroleum oils (alternative name) (628), PH 60-38 (development code) (1328), phenkapton (1330), phenothrin (630), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosnichlor (1339), phosphamidon (639), phosphine (IUPAC name) (640), phoxim (642), phoxim-methyl (1340), pirimetaphos (1344), pirimicarb (651), pirimiphos-ethyl (1345), pirimiphos-methyl (652), polychlorodicyclopentadiene isomers (IUPAC name) (1346), polychloroterpenes (traditional name) (1347), potassium arsenite [CCN], potassium thiocyanate [CCN], prallethrin (655), precocene I (alternative name) [CCN], precocene II (alternative name) [CCN], precocene III (alternative name) [CCN], primidophos (1349), profenofos (662), profluthrin [CCN], promacyl (1354), promecarb (1355), propaphos (1356), propetamphos (673), propoxur (678), prothidathion (1360), prothiofos (686), prothoate (1362), protrifenbute [CCN], pymetrozine (688), pyraclofos (689), pyrazophos (693), pyresmethrin (1367), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridalyl (700), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), pyriproxyfen (708), quassia (alternative name) [CCN], quinalphos (711), quinalphos-methyl (1376), quinothion (1380), quintiofos (1381), R-1492 (development code) (1382), rafoxanide (alternative name) [CCN], resmethrin (719), rotenone (722), RU 15525 (development code) (723), RU 25475 (development code) (1386), ryania (alternative name) (1387), ryanodine (traditional name) (1387), sabadilla (alternative name) (725), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), silafluofen (728), SN 72129 (development code) (1397), sodium arsenite [CCN], sodium cyanide (444), sodium fluoride (IUPAC/Chemical Abstracts name) (1399), sodium hexafluorosilicate (1400), sodium pentachlorophenoxide (623), sodium selenate (IUPAC name) (1401), sodium thiocyanate [CCN], sophamide (1402), spinosad (737), spiromesifen (739), sulcofuron (746), sulcofuron-sodium (746), sulfluramid (750), sulfotep (753), sulfuryl fluoride (756), sulprofos (1408), tar oils (alternative name) (758), tau-fluvalinate (398), tazimcarb (1412), TDE (1414), tebufenozide (762), tebufenpyrad (763), tebupirimfos (764), teflubenzuron (768), tefluthrin (769), temephos (770), TEPP (1417), terallethrin (1418), terbam (alternative name), terbufos (773), tetrachloroethane [CCN], tetrachlorvinphos (777), tetramethrin (787), theta-cypermethrin (204), thiacloprid (791), thiafenox (alternative name), thiamethoxam (792), thicrofos (1428), thiocarboxime (1431), thiocyclam (798), thiocyclam hydrogen oxalate (798), thiodicarb (799), thiofanox (800), thiometon (801), thionazin (1434), thiosultap (803), thiosultap-sodium (803), thuringiensin (alternative name) [CCN], tolfenpyrad

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(809), tralomethrin (812), transfluthrin (813), transpermethrin (1440), triamiphos (1441), triazamate (818), triazophos (820), triazuron (alternative name), trichlorfon (824), trichlormetaphos-3 (alternative name) [CCN], trichloronat (1452), trifenofos (1455), triflumuron (835), trimethacarb (840), triprene (1459), vamidothion (847), vaniliprole [CCN], veratridine (alternative name) (725), veratrine (alternative name) (725), XMC (853), xylylcarb (854), YI-5302 (compound code), zeta-cypermethrin (205), zetamethrin (alternative name), zinc phosphide (640), zolaprofos (1469) and ZXI 8901 (development code) (858),

a molluscicide selected from the group of substances consisting of bis(tributyltin) oxide (IUPAC name) (913), bromoacetamide [CCN], calcium arsenate [CCN], cloethocarb (999), copper acetoarsenite [CCN], copper sulfate (172), fentin (347), ferric phosphate (IUPAC name) (352), metaldehyde (518), methiocarb (530), niclosamide (576), niclosamide-olamine (576), pentachlorophenol (623), sodium pentachlorophenoxide (623), tazimcarb (1412), thiodicarb (799), tributyltin oxide (913), trifenmorph (1454), trimethacarb (840), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

a nematicide selected from the group of substances consisting of 1,2-dibromo-3-chloropropane (IUPAC/Chemical Abstracts name) (1045), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1,3-dichloropropene (233), 3,4-dichlorotetrahydrothiophene 1,1-dioxide (IUPAC/Chemical Abstracts name) (1065), 3-(4-chlorophenyl)-5-methylrhodanine (IUPAC name) (980), 5-methyl-6-thioxo-1,3,5-thiadiazinan-3-ylacetic acid (IUPAC name) (1286), 6-isopentenylaminopurine (alternative name) (210), abamectin (1), acetoprole [CCN], alanycarb (15), aldicarb (16), aldoxycarb (863), AZ 60541 (compound code), benclothiaz [CCN], benomyl (62), butylpyridaben (alternative name), cadusafos (109), carbofuran (118), carbon disulfide (945), carbosulfan (119), chloropicrin (141), chlorpyrifos (145), cloethocarb (999), cytokinins (alternative name) (210), dazomet (216), DBCP (1045), DCIP (218), diamidafos (1044), dichlofenthion (1051), dicliphos (alternative name), dimethoate (262), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ethoprophos (312), ethylene dibromide (316), fenamiphos (326), fenpyrad (alternative name), fensulfothion (1158), fosthiazate (408), fosthietan (1196), furfural (alternative name) [CCN], GY-81 (development code) (423), heterophos [CCN], iodomethane (IUPAC name) (542), isamidofos (1230), isazofos (1231), ivermectin (alternative name) [CCN], kinetin (alternative name) (210), mecarphon (1258), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methyl bromide (537), methyl isothiocyanate (543), milbemycin oxime (alternative name) [CCN],

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moxidectin (alternative name) [CCN], *Myrothecium verrucaria* composition (alternative name) (565), NC-184 (compound code), oxamyl (602), phorate (636), phosphamidon (639), phosphocarb [CCN], sebufos (alternative name), selamectin (alternative name) [CCN], spinosad (737), terbam (alternative name), terbufos (773), tetrachlorothiophene (IUPAC/ Chemical Abstracts name) (1422), thiafenox (alternative name), thionazin (1434), triazophos (820), triazuron (alternative name), xlenols [CCN], YI-5302 (compound code) and zeatin (alternative name) (210),

a nitrification inhibitor selected from the group of substances consisting of potassium ethylxanthate [CCN] and nitrapyrin (580),

a plant activator selected from the group of substances consisting of acibenzolar (6), acibenzolar-S-methyl (6), probenazole (658) and *Reynoutria sachalinensis* extract (alternative name) (720),

a rodenticide selected from the group of substances consisting of 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), alpha-chlorohydrin [CCN], aluminium phosphide (640), antu (880), arsenous oxide (882), barium carbonate (891), bithiosemi (912), brodifacoum (89), bromadiolone (91), bromethalin (92), calcium cyanide (444), chloralose (127), chlorophacinone (140), cholecalciferol (alternative name) (850), coumachlor (1004), coumafuryl (1005), coumatetralyl (175), crimidine (1009), difenacoum (246), difethialone (249), diphacinone (273), ergocalciferol (301), flocoumafen (357), fluoroacetamide (379), flupropadine (1183), flupropadine hydrochloride (1183), gamma-HCH (430), HCH (430), hydrogen cyanide (444), iodomethane (IUPAC name) (542), lindane (430), magnesium phosphide (IUPAC name) (640), methyl bromide (537), norbormide (1318), phosacetim (1336), phosphine (IUPAC name) (640), phosphorus [CCN], pindone (1341), potassium arsenite [CCN], pyrinuron (1371), scilliroside (1390), sodium arsenite [CCN], sodium cyanide (444), sodium fluoroacetate (735), strychnine (745), thallium sulfate [CCN], warfarin (851) and zinc phosphide (640),

a synergist selected from the group of substances consisting of 2-(2-butoxyethoxy)-ethyl piperonylate (IUPAC name) (934), 5-(1,3-benzodioxol-5-yl)-3-hexylcyclohex-2-enone (IUPAC name) (903), farnesol with nerolidol (alternative name) (324), MB-599 (development code) (498), MGK 264 (development code) (296), piperonyl butoxide (649), piprotal (1343), propyl isomer (1358), S421 (development code) (724), sesamex (1393), sesasmolin (1394) and sulfoxide (1406),

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an animal repellent selected from the group of substances consisting of anthraquinone (32), chloralose (127), copper naphthenate [CCN], copper oxychloride (171), diazinon (227), dicyclopentadiene (chemical name) (1069), guazatine (422), guazatine acetates (422), methiocarb (530), pyridin-4-amine (IUPAC name) (23), thiram (804), trimethacarb (840), zinc naphthenate [CCN] and ziram (856),

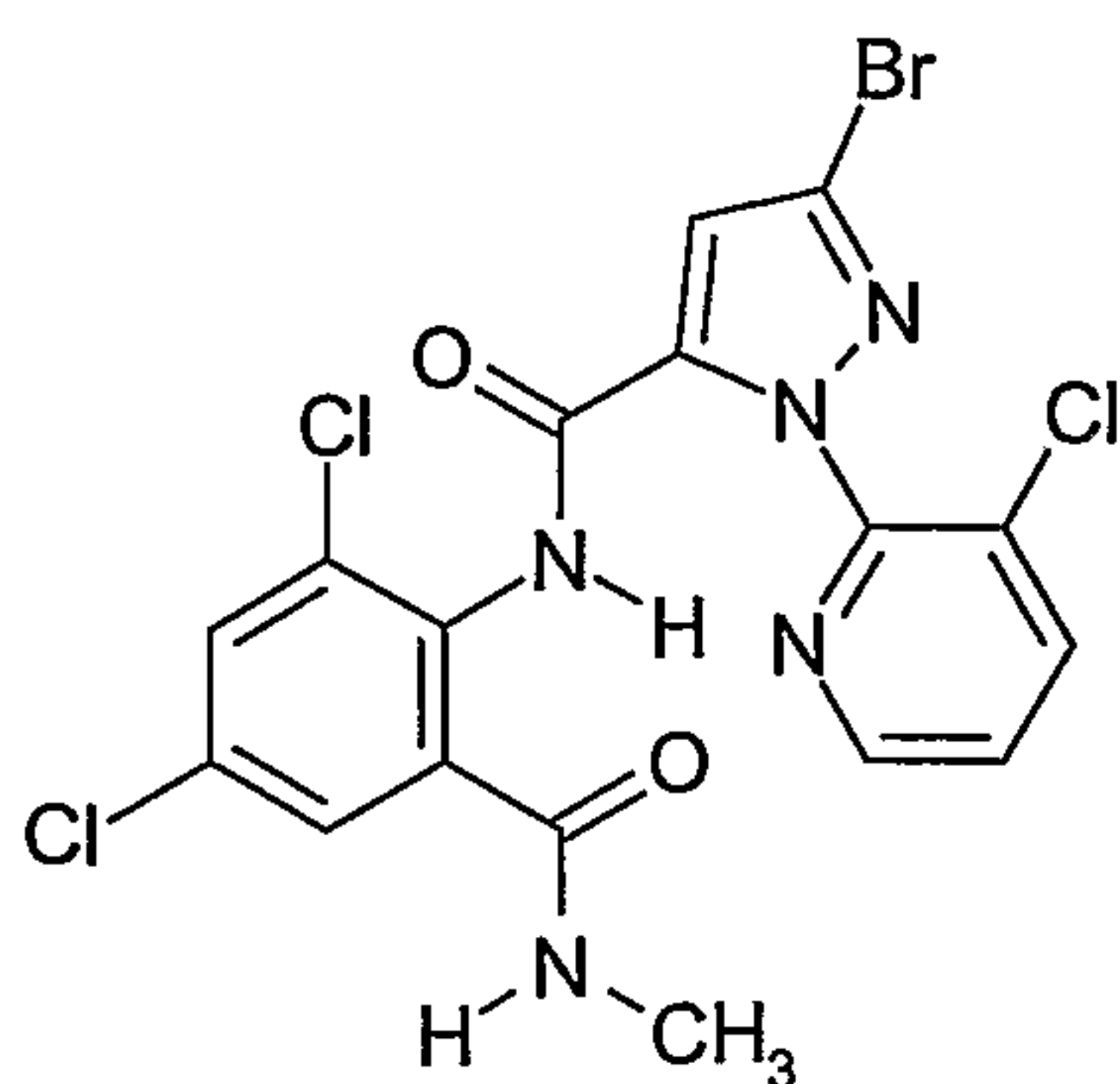
a virucide selected from the group of substances consisting of imanin (alternative name) [CCN] and ribavirin (alternative name) [CCN],

and a wound protectant selected from the group of substances consisting of mercuric oxide (512), octhlinone (590) and thiophanate-methyl (802).

A very especially preferred embodiment of the subject-matter {1.1.14} of the invention is {1.1.14.2} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-14) and the compound (B) is a compound selected from the group of substances consisting of abamectin (1), cyromazine (209), diafenthiuron (226), diazinon (227), emamectin benzoate (291), fenoxycarb (340), fosthiazate (408), lambda-cyhalothrin (198), lufenuron (490), methidathion (529), profenofos (662), pymetrozine (688), tefluthrin (769) and thiamethoxam (792).

The compound of formula (A-14) is known, for example, from the PCT Application WO-03/015519.

A preferred embodiment of the subject-matter {1.1} of the invention is {1.1.15} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-15)



(A-15)

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and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematicide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

An especially preferred embodiment of the subject-matter {1.1.15} of the invention is {1.1.15.1} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-15) and the compound (B) is a compound selected from the group of substances consisting of

an adjuvant selected from the group of substances consisting of petroleum oils (alternative name) (628),

an acaricide selected from the group of substances consisting of 1,1-bis(4-chlorophenyl)-2-ethoxyethanol (IUPAC name) (910), 2,4-dichlorophenyl benzenesulfonate (IUPAC/Chemical Abstracts name) (1059), 2-fluoro-*N*-methyl-*N*-1-naphthylacetamide (IUPAC name) (1295), 4-chlorophenyl phenyl sulfone (IUPAC name) (981), abamectin (1), acequinocyl (3), acetoprole [CCN], acrinathrin (9), aldicarb (16), aldoxycarb (863), alpha-cypermethrin (202), amidithion (870), amidoflumet [CCN], amidothioate (872), amiton (875), amiton hydrogen oxalate (875), amitraz (24), aramite (881), arsenous oxide (882), AVI 382 (compound code), AZ 60541 (compound code), azinphos-ethyl (44), azinphos-methyl (45), azobenzene (IUPAC name) (888), azocyclotin (46), azothoate (889), benomyl (62), benoxafos (alternative name) [CCN], benzoximate (71), benzyl benzoate (IUPAC name) [CCN], bifenazate (74), bifenthrin (76), binapacryl (907), brofenvalerate (alternative name), bromocyclen (918), bromophos (920), bromophos-ethyl (921), bromopropylate (94), buprofezin (99), butocarboxim (103), butoxycarboxim (104), butylpyridaben (alternative name), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbophenothion (947), CGA 50'439 (development code) (125), chinomethionat (126), chlorbenside (959), chlordimeform (964), chlordimeform hydrochloride (964), chlorfenapyr (130), chlorfenethol (968), chlorfenson (970), chlorfensulphide (971), chlorfenvinphos (131), chlorobenzilate (975), chloromebuform (977), chloromethiuron (978), chloropropylate (983), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), cinerin I (696), cinerin II (696), cinerins (696), clofentezine (158), closantel (alternative name) [CCN], coumaphos (174), crotamiton (alternative name) [CCN], crotoxyphos (1010),

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cufraneb (1013), cyanthoate (1020), cyhalothrin (196), cyhexatin (199), cypermethrin (201), DCPM (1032), DDT (219), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafen-thiuron (226), dialifos (1042), diazinon (227), dichlofluanid (230), dichlorvos (236), dicliphos (alternative name), dicofol (242), dicrotophos (243), dienochlor (1071), dimefox (1081), dimethoate (262), dinactin (alternative name) (653), dinex (1089), dinex-diclexine (1089), dinobuton (269), dinocap (270), dinocap-4 [CCN], dinocap-6 [CCN], dinocton (1090), dinopenton (1092), dinosulfon (1097), dinoterbon (1098), dioxathion (1102), diphenyl sulfone (IUPAC name) (1103), disulfiram (alternative name) [CCN], disulfoton (278), DNOC (282), dofenapyn (1113), doramectin (alternative name) [CCN], endosulfan (294), endothion (1121), EPN (297), eprinomectin (alternative name) [CCN], ethion (309), ethoate-methyl (1134), etoxazole (320), etrimfos (1142), fenazaflor (1147), fenazaquin (328), fenbutatin oxide (330), fenothiocarb (337), fenpropathrin (342), fenpyrad (alternative name), fenpyroximate (345), fenson (1157), fentrifanil (1161), fenvalerate (349), fipronil (354), fluacrypyrim (360), fluazuron (1166), flubenzimine (1167), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenoxuron (370), flumethrin (372), fluorbenside (1174), fluvalinate (1184), FMC 1137 (development code) (1185), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), gamma-HCH (430), glyodin (1205), halfenprox (424), heptenophos (432), hexadecyl cyclopropanecarboxylate (IUPAC/Chemical Abstracts name) (1216), hexythiazox (441), iodomethane (IUPAC name) (542), isocarbophos (alternative name) (473), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), lindane (430), lufenuron (490), malathion (492), malonoben (1254), mecarbam (502), mephosfolan (1261), mesulfen (alternative name) [CCN], methacrifos (1266), methamidophos (527), methidathion (529), methiocarb (530), methomyl (531), methyl bromide (537), metolcarb (550), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naled (567), NC-184 (compound code), nifluridide (1309), nikkomycins (alternative name) [CCN], nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), omethoate (594), oxamyl (602), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), parathion (615), permethrin (626), petroleum oils (alternative name) (628), phenkapton (1330), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638),

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phosphamidon (639), phoxim (642), pirimiphos-methyl (652), polychloroterpenes (traditional name) (1347), polynactins (alternative name) (653), proclonol (1350), profenofos (662), promacyl (1354), propargite (671), propetamphos (673), propoxur (678), prothidathion (1360), prothoate (1362), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), quinalphos (711), quintiofos (1381), R-1492 (development code) (1382), RA-17 (development code) (1383), rotenone (722), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), sophamide (1402), spirodiclofen (738), spiromesifen (739), SSI-121 (development code) (1404), sulfiram (alternative name) [CCN], sulfluramid (750), sulfotep (753), sulfur (754), SZI-121 (development code) (757), tau-fluvalinate (398), tebufenpyrad (763), TEPP (1417), terbam (alternative name), tetrachlorvinphos (777), tetradifon (786), tetranactin (alternative name) (653), tetrasul (1425), thiafenox (alternative name), thiocarboxime (1431), thiofanox (800), thiometon (801), thioquinox (1436), thuringiensin (alternative name) [CCN], triamiphos (1441), triarathene (1443), triazophos (820), triazuron (alternative name), trichlorfon (824), trifenofos (1455), trinactin (alternative name) (653), vamidothion (847), vaniliprole [CCN] and YI-5302 (compound code),

an algicide selected from the group of substances consisting of bethoxazin [CCN], copper dioctanoate (IUPAC name) (170), copper sulfate (172), cybutryne [CCN], dichlone (1052), dichlorophen (232), endothal (295), fentin (347), hydrated lime [CCN], nabam (566), quinoclamine (714), quinonamid (1379), simazine (730), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

an anthelmintic selected from the group of substances consisting of abamectin (1), crufomate (1011), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ivermectin (alternative name) [CCN], milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], piperazine [CCN], selamectin (alternative name) [CCN], spinosad (737) and thiophanate (1435),

an avicide selected from the group of substances consisting of chloralose (127), endrin (1122), fenthion (346), pyridin-4-amine (IUPAC name) (23) and strychnine (745),

a bactericide selected from the group of substances consisting of 1-hydroxy-1*H*-pyridine-2-thione (IUPAC name) (1222), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), 8-hydroxyquinoline sulfate (446), bronopol (97), copper dioctanoate (IUPAC name) (170), copper hydroxide (IUPAC name) (169), cresol [CCN], dichlorophen (232), dipyrithione (1105), dodicin (1112), fenaminosulf (1144), formaldehyde (404),

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hydrargaphen (alternative name) [CCN], kasugamycin (483), kasugamycin hydrochloride hydrate (483), nickel bis(dimethyldithiocarbamate) (IUPAC name) (1308), nitrapyrin (580), othillinone (590), oxolinic acid (606), oxytetracycline (611), potassium hydroxyquinoline sulfate (446), probenazole (658), streptomycin (744), streptomycin sesquisulfate (744), tecloftalam (766) and thiomersal (alternative name) [CCN],

a biological agent selected from the group of substances consisting of *Adoxophyes orana* GV (alternative name) (12), *Agrobacterium radiobacter* (alternative name) (13), *Amblyseius* spp. (alternative name) (19), *Anagrapha falcifera* NPV (alternative name) (28), *Anagrus atomus* (alternative name) (29), *Aphelinus abdominalis* (alternative name) (33), *Aphidius colemani* (alternative name) (34), *Aphidoletes aphidimyza* (alternative name) (35), *Autographa californica* NPV (alternative name) (38), *Bacillus firmus* (alternative name) (48), *Bacillus sphaericus* Neide (scientific name) (49), *Bacillus thuringiensis* Berliner (scientific name) (51), *Bacillus thuringiensis* subsp. *aizawai* (scientific name) (51), *Bacillus thuringiensis* subsp. *israelensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *japonensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *kurstaki* (scientific name) (51), *Bacillus thuringiensis* subsp. *tenebrionis* (scientific name) (51), *Beauveria bassiana* (alternative name) (53), *Beauveria brongniartii* (alternative name) (54), *Chrysoperla carnea* (alternative name) (151), *Cryptolaemus montrouzieri* (alternative name) (178), *Cydia pomonella* GV (alternative name) (191), *Dacnusa sibirica* (alternative name) (212), *Diglyphus isaea* (alternative name) (254), *Encarsia formosa* (scientific name) (293), *Eretmocerus eremicus* (alternative name) (300), *Helicoverpa zea* NPV (alternative name) (431), *Heterorhabditis bacteriophora* and *H. megidis* (alternative name) (433), *Hippodamia convergens* (alternative name) (442), *Leptomastix dactylopii* (alternative name) (488), *Macrolophus caliginosus* (alternative name) (491), *Mamestra brassicae* NPV (alternative name) (494), *Metaphycus helvolus* (alternative name) (522), *Metarhizium anisopliae* var. *acridum* (scientific name) (523), *Metarhizium anisopliae* var. *anisopliae* (scientific name) (523), *Neodiprion sertifer* NPV and *N. lecontei* NPV (alternative name) (575), *Orius* spp. (alternative name) (596), *Paecilomyces fumosoroseus* (alternative name) (613), *Phytoseiulus persimilis* (alternative name) (644), *Spodoptera exigua* multicapsid nuclear polyhedrosis virus (scientific name) (741), *Steinernema bibionis* (alternative name) (742), *Steinernema carpocapsae* (alternative name) (742), *Steinernema feltiae* (alternative name) (742), *Steinernema glaseri* (alternative name) (742), *Steinernema riobrave* (alternative name) (742), *Steinernema riobravus* (alternative name) (742), *Steinernema scapterisci* (alternative name) (742), *Steinernema* spp. (alternative name) (742), *Trichogramma* spp.

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(alternative name) (826), *Typhlodromus occidentalis* (alternative name) (844) and *Verticillium lecanii* (alternative name) (848),

a soil sterilant selected from the group of substances consisting of iodomethane (IUPAC name) (542) and methyl bromide (537),

a chemosterilant selected from the group of substances consisting of apholate [CCN], bisazir (alternative name) [CCN], busulfan (alternative name) [CCN], diflubenzuron (250), dimatif (alternative name) [CCN], hemel [CCN], hempa [CCN], metepa [CCN], methiotepa [CCN], methyl apholate [CCN], morzid [CCN], penfluron (alternative name) [CCN], tepa [CCN], thiohempa (alternative name) [CCN], thiotepa (alternative name) [CCN], tretamine (alternative name) [CCN] and uredepa (alternative name) [CCN],

an insect pheromone selected from the group of substances consisting of (*E*)-dec-5-en-1-yl acetate with (*E*)-dec-5-en-1-ol (IUPAC name) (222), (*E*)-tridec-4-en-1-yl acetate (IUPAC name) (829), (*E*)-6-methylhept-2-en-4-ol (IUPAC name) (541), (*E,Z*)-tetradeca-4,10-dien-1-yl acetate (IUPAC name) (779), (*Z*)-dodec-7-en-1-yl acetate (IUPAC name) (285), (*Z*)-hexadec-11-enal (IUPAC name) (436), (*Z*)-hexadec-11-en-1-yl acetate (IUPAC name) (437), (*Z*)-hexadec-13-en-11-yn-1-yl acetate (IUPAC name) (438), (*Z*)-icos-13-en-10-one (IUPAC name) (448), (*Z*)-tetradec-7-en-1-al (IUPAC name) (782), (*Z*)-tetradec-9-en-1-ol (IUPAC name) (783), (*Z*)-tetradec-9-en-1-yl acetate (IUPAC name) (784), (*7E,9Z*)-dodeca-7,9-dien-1-yl acetate (IUPAC name) (283), (*9Z,11E*)-tetradeca-9,11-dien-1-yl acetate (IUPAC name) (780), (*9Z,12E*)-tetradeca-9,12-dien-1-yl acetate (IUPAC name) (781), 14-methyloctadec-1-ene (IUPAC name) (545), 4-methylnonan-5-ol with 4-methylnonan-5-one (IUPAC name) (544), alpha-multistriatin (alternative name) [CCN], brevicomin (alternative name) [CCN], codlelure (alternative name) [CCN], codlemone (alternative name) (167), cuelure (alternative name) (179), disparlure (277), dodec-8-en-1-yl acetate (IUPAC name) (286), dodec-9-en-1-yl acetate (IUPAC name) (287), dodeca-8,10-dien-1-yl acetate (IUPAC name) (284), dominicalure (alternative name) [CCN], ethyl 4-methyloctanoate (IUPAC name) (317), eugenol (alternative name) [CCN], frontalinal (alternative name) [CCN], gossyplure (alternative name) (420), grandlure (421), grandlure I (alternative name) (421), grandlure II (alternative name) (421), grandlure III (alternative name) (421), grandlure IV (alternative name) (421), hexalure [CCN], ipsdienol (alternative name) [CCN], ipsenol (alternative name) [CCN], japonilure (alternative name) (481), lineatin (alternative name) [CCN], litlure (alternative name) [CCN], looplure (alternative name) [CCN], medlure [CCN], megatomoic acid (alternative name) [CCN], methyl eugenol (alternative name) (540), muscalure (563), octadeca-2,13-dien-1-yl acetate (IUPAC name) (588), octadeca-3,13-dien-1-yl acetate

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(IUPAC name) (589), orfralure (alternative name) [CCN], oryctalure (alternative name) (317), ostramone (alternative name) [CCN], siglure [CCN], sordidin (alternative name) (736), sulcatol (alternative name) [CCN], tetradec-11-en-1-yl acetate (IUPAC name) (785), trimedlure (839), trimedlure A (alternative name) (839), trimedlure B₁ (alternative name) (839), trimedlure B₂ (alternative name) (839), trimedlure C (alternative name) (839) and trunc-call (alternative name) [CCN],

an insect repellent selected from the group of substances consisting of 2-(octylthio)-ethanol (IUPAC name) (591), butopyronoxyl (933), butoxy(polypropylene glycol) (936), dibutyl adipate (IUPAC name) (1046), dibutyl phthalate (1047), dibutyl succinate (IUPAC name) (1048), diethyltoluamide [CCN], dimethyl carbate [CCN], dimethyl phthalate [CCN], ethyl hexanediol (1137), hexamide [CCN], methoquin-butyl (1276), methylneodecanamide [CCN], oxamate [CCN] and picaridin [CCN],

an insecticide selected from the group of substances consisting of 1,1-dichloro-1-nitroethane (IUPAC/Chemical Abstracts name) (1058), 1,1-dichloro-2,2-bis(4-ethylphenyl)-ethane (IUPAC name) (1056), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1-bromo-2-chloroethane (IUPAC/Chemical Abstracts name) (916), 2,2,2-trichloro-1-(3,4-dichlorophenyl)ethyl acetate (IUPAC name) (1451), 2,2-dichlorovinyl 2-ethylsulfinylethyl methyl phosphate (IUPAC name) (1066), 2-(1,3-dithiolan-2-yl)phenyl dimethylcarbamate (IUPAC/Chemical Abstracts name) (1109), 2-(2-butoxyethoxy)ethyl thiocyanate (IUPAC/Chemical Abstracts name) (935), 2-(4,5-dimethyl-1,3-dioxolan-2-yl)phenyl methylcarbamate (IUPAC/Chemical Abstracts name) (1084), 2-(4-chloro-3,5-xylyloxy)ethanol (IUPAC name) (986), 2-chlorovinyl diethyl phosphate (IUPAC name) (984), 2-imidazolidone (IUPAC name) (1225), 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 2-methyl(prop-2-ynyl)aminophenyl methylcarbamate (IUPAC name) (1284), 2-thiocyanatoethyl laurate (IUPAC name) (1433), 3-bromo-1-chloroprop-1-ene (IUPAC name) (917), 3-methyl-1-phenylpyrazol-5-yl dimethylcarbamate (IUPAC name) (1283), 4-methyl(prop-2-ynyl)amino-3,5-xylyl methylcarbamate (IUPAC name) (1285), 5,5-dimethyl-3-oxocyclohex-1-enyl dimethylcarbamate (IUPAC name) (1085), abamectin (1), acephate (2), acetamiprid (4), acethion (alternative name) [CCN], acetoprole [CCN], acrinathrin (9), acrylonitrile (IUPAC name) (861), alanycarb (15), aldicarb (16), aldoxycarb (863), aldrin (864), allethrin (17), allosamidin (alternative name) [CCN], allyxycarb (866), alpha-cypermethrin (202), alpha-ecdysone (alternative name) [CCN], aluminium phosphide (640), amidithion (870), amidothioate (872), aminocarb (873), amiton (875), amiton hydrogen oxalate (875), amitraz (24), anabasine (877), athidathion (883), AVI

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382 (compound code), AZ 60541 (compound code), azadirachtin (alternative name) (41), azamethiphos (42), azinphos-ethyl (44), azinphos-methyl (45), azothoate (889), *Bacillus thuringiensis* delta endotoxins (alternative name) (52), barium hexafluorosilicate (alternative name) [CCN], barium polysulfide (IUPAC/Chemical Abstracts name) (892), barthrin [CCN], BAS 320 I (compound code), Bayer 22/190 (development code) (893), Bayer 22408 (development code) (894), bendiocarb (58), benfuracarb (60), bensultap (66), beta-cyfluthrin (194), beta-cypermethrin (203), bifenthrin (76), bioallethrin (78), bioallethrin S-cyclopentenyl isomer (alternative name) (79), bioethanomethrin [CCN], biopermethrin (908), bioresmethrin (80), bis(2-chloroethyl) ether (IUPAC name) (909), bistrifluron (83), borax (86), brofenvalerate (alternative name), bromfenvinfos (914), bromocyclen (918), bromo-DDT (alternative name) [CCN], bromophos (920), bromophos-ethyl (921), bufencarb (924), buprofezin (99), butacarb (926), butathiofos (927), butocarboxim (103), butonate (932), butoxycarboxim (104), butylpyridaben (alternative name), cadusafos (109), calcium arsenate [CCN], calcium cyanide (444), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbon disulfide (IUPAC/Chemical Abstracts name) (945), carbon tetrachloride (IUPAC name) (946), carbophenothion (947), carbosulfan (119), cartap (123), cartap hydrochloride (123), cevadine (alternative name) (725), chlorbicyclen (960), chlordane (128), chlordecone (963), chlordimeform (964), chlordimeform hydrochloride (964), chlorethoxyfos (129), chlorfenapyr (130), chlorfenvinphos (131), chlorfluazuron (132), chlormephos (136), chloroform [CCN], chloropicrin (141), chlorphoxim (989), chlorprazophos (990), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), chromafenozide (150), cinerin I (696), cinerin II (696), cinerins (696), cis-resmethrin (alternative name), cismethrin (80), clocythrins (alternative name), cloethocarb (999), closantel (alternative name) [CCN], clothianidin (165), copper acetoarsenite [CCN], copper arsenate [CCN], copper oleate [CCN], coumaphos (174), coumithoate (1006), crotamiton (alternative name) [CCN], crotoxyphos (1010), crufomate (1011), cryolite (alternative name) (177), CS 708 (development code) (1012), cyanofenphos (1019), cyanophos (184), cyanthoate (1020), cyclethrin [CCN], cycloprothrin (188), cyfluthrin (193), cyhalothrin (196), cypermethrin (201), cyphenothrin (206), cyromazine (209), cythioate (alternative name) [CCN], *d*-limonene (alternative name) [CCN], *d*-tetramethrin (alternative name) (788), DAEP (1031), dazomet (216), DDT (219), decarbofuran (1034), deltamethrin (223), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthiuron (226), dialifos

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(1042), diamidafos (1044), diazinon (227), dicapthon (1050), dichlofenthion (1051), dichlorvos (236), dicliphos (alternative name), dicresyl (alternative name) [CCN], dicrotophos (243), dicyclanil (244), dieldrin (1070), diethyl 5-methylpyrazol-3-yl phosphate (IUPAC name) (1076), diflubenzuron (250), dilor (alternative name) [CCN], dimefluthrin [CCN], dimefox (1081), dimetan (1085), dimethoate (262), dimethrin (1083), dimethylvinphos (265), dimetilan (1086), dinex (1089), dinex-diclexine (1089), dinoprop (1093), dinosam (1094), dinoseb (1095), dinotefuran (271), diofenolan (1099), dioxabenzofos (1100), dioxacarb (1101), dioxathion (1102), disulfoton (278), dithicrofos (1108), DNOC (282), doramectin (alternative name) [CCN], DSP (1115), ecdysterone (alternative name) [CCN], EI 1642 (development code) (1118), emamectin (291), emamectin benzoate (291), EMPC (1120), empenthrin (292), endosulfan (294), endothion (1121), endrin (1122), EPBP (1123), EPN (297), epofenonane (1124), eprinomectin (alternative name) [CCN], esfenvalerate (302), etaphos (alternative name) [CCN], ethiofencarb (308), ethion (309), ethiprole (310), ethoate-methyl (1134), ethoprophos (312), ethyl formate (IUPAC name) [CCN], ethyl-DDD (alternative name) (1056), ethylene dibromide (316), ethylene dichloride (chemical name) (1136), ethylene oxide [CCN], etofenprox (319), etrimfos (1142), EXD (1143), famphur (323), fenamiphos (326), fenazaflor (1147), fenchlorphos (1148), fenethacarb (1149), fenfluthrin (1150), fenitrothion (335), fenobucarb (336), fenoxacrim (1153), fenoxycarb (340), fenpirithrin (1155), fenpropathrin (342), fenpyrad (alternative name), fensulfothion (1158), fenthion (346), fenthion-ethyl [CCN], fenvalerate (349), fipronil (354), flonicamid (358), flucofuron (1168), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenerim [CCN], flufenoxuron (370), flufenprox (1171), flumethrin (372), fluvalinate (1184), FMC 1137 (development code) (1185), fonofos (1191), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), fosmethilan (1194), fospirate (1195), fothiazate (408), fothietan (1196), furathiocarb (412), furethrin (1200), gamma-cyhalothrin (197), gamma-HCH (430), guazatine (422), guazatine acetates (422), GY-81 (development code) (423), halfenprox (424), halofenozide (425), HCH (430), HEOD (1070), heptachlor (1211), heptenophos (432), heterophos [CCN], hexaflumuron (439), HHDN (864), hydramethylion (443), hydrogen cyanide (444), hydroprene (445), hyquincarb (1223), imidacloprid (458), imiprothrin (460), indoxacarb (465), iodomethane (IUPAC name) (542), IPSP (1229), isazofos (1231), isobenzan (1232), isocarbophos (alternative name) (473), isodrin (1235), isofenphos (1236), isolane (1237), isoprocab (472), isopropyl O-(methoxy-aminothiophosphoryl)salicylate (IUPAC name) (473), isoprothiolane (474), isothioate (1244), isoxathion (480), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696),

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jodfenphos (1248), juvenile hormone I (alternative name) [CCN], juvenile hormone II (alternative name) [CCN], juvenile hormone III (alternative name) [CCN], kelevan (1249), kinoprene (484), lambda-cyhalothrin (198), lead arsenate [CCN], leptophos (1250), lindane (430), lirimfos (1251), lufenuron (490), lythidathion (1253), *m*-cumenyl methylcarbamate (IUPAC name) (1014), magnesium phosphide (IUPAC name) (640), malathion (492), malonoben (1254), mazidox (1255), mecarbam (502), mecarphon (1258), menazon (1260), mephosfolan (1261), mercurous chloride (513), mesulfenfos (1263), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methacrifos (1266), methamidophos (527), methanesulfonyl fluoride (IUPAC/Chemical Abstracts name) (1268), methidathion (529), methiocarb (530), methocrotophos (1273), methomyl (531), methoprene (532), methoquin-butyl (1276), methothrin (alternative name) (533), methoxychlor (534), methoxyfenozide (535), methyl bromide (537), methyl isothiocyanate (543), methylchloroform (alternative name) [CCN], methylene chloride [CCN], metofluthrin [CCN], metolcarb (550), metoxadiazone (1288), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), mirex (1294), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naftalofos (alternative name) [CCN], naled (567), naphthalene (IUPAC/Chemical Abstracts name) (1303), NC-170 (development code) (1306), NC-184 (compound code), nicotine (578), nicotine sulfate (578), nifluridide (1309), nitenpyram (579), nithiazine (1311), nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), nor nicotine (traditional name) (1319), novaluron (585), noviflumuron (586), *O*-2,5-dichloro-4-iodophenyl *O*-ethyl ethylphosphonothioate (IUPAC name) (1057), *O,O*-diethyl *O*-4-methyl-2-oxo-2*H*-chromen-7-yl phosphorothioate (IUPAC name) (1074), *O,O*-diethyl *O*-6-methyl-2-propylpyrimidin-4-yl phosphorothioate (IUPAC name) (1075), *O,O,O',O'*-tetrapropyl dithiopyrophosphate (IUPAC name) (1424), oleic acid (IUPAC name) (593), omethoate (594), oxamyl (602), oxydemeton-methyl (609), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), para-dichlorobenzene [CCN], parathion (615), parathion-methyl (616), penfluron (alternative name) [CCN], pentachlorophenol (623), pentachlorophenyl laurate (IUPAC name) (623), permethrin (626), petroleum oils (alternative name) (628), PH 60-38 (development code) (1328), phenkapton (1330), phenothrin (630), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosnichlor (1339), phosphamidon (639), phosphine (IUPAC name) (640), phoxim (642), phoxim-methyl (1340), pirimetaphos (1344), pirimicarb (651), pirimiphos-ethyl (1345), pirimiphos-methyl (652), polychlorodicyclopentadiene isomers (IUPAC name) (1346),

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polychloroterpenes (traditional name) (1347), potassium arsenite [CCN], potassium thiocyanate [CCN], prallethrin (655), precocene I (alternative name) [CCN], precocene II (alternative name) [CCN], precocene III (alternative name) [CCN], primidophos (1349), profenofos (662), profluthrin [CCN], promacyl (1354), promecarb (1355), propaphos (1356), propetamphos (673), propoxur (678), prothidathion (1360), prothiofos (686), prothoate (1362), protrifenbute [CCN], pymetrozine (688), pyraclofos (689), pyrazophos (693), pyresmethrin (1367), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridalyl (700), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), pyriproxyfen (708), quassia (alternative name) [CCN], quinalphos (711), quinalphos-methyl (1376), quinothion (1380), quintiofos (1381), R-1492 (development code) (1382), rafoxanide (alternative name) [CCN], resmethrin (719), rotenone (722), RU 15525 (development code) (723), RU 25475 (development code) (1386), ryania (alternative name) (1387), ryanodine (traditional name) (1387), sabadilla (alternative name) (725), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), silafluofen (728), SN 72129 (development code) (1397), sodium arsenite [CCN], sodium cyanide (444), sodium fluoride (IUPAC/Chemical Abstracts name) (1399), sodium hexafluorosilicate (1400), sodium pentachlorophenoxide (623), sodium selenate (IUPAC name) (1401), sodium thiocyanate [CCN], sophamide (1402), spinosad (737), spiromesifen (739), sulcofuron (746), sulcofuron-sodium (746), sulfluramid (750), sulfotep (753), sulfuryl fluoride (756), sulprofos (1408), tar oils (alternative name) (758), tau-fluvalinate (398), tazimcarb (1412), TDE (1414), tebufenozide (762), tebufenpyrad (763), tebupirimfos (764), teflubenzuron (768), tefluthrin (769), temephos (770), TEPP (1417), terallethrin (1418), terbam (alternative name), terbufos (773), tetrachloroethane [CCN], tetrachlorvinphos (777), tetramethrin (787), theta-cypermethrin (204), thiacloprid (791), thiafenox (alternative name), thiamethoxam (792), thicrofos (1428), thiocarboxime (1431), thiocyclam (798), thiocyclam hydrogen oxalate (798), thiodicarb (799), thiofanox (800), thiometon (801), thionazin (1434), thiosultap (803), thiosultap-sodium (803), thuringiensin (alternative name) [CCN], tolfenpyrad (809), tralomethrin (812), transfluthrin (813), transpermethrin (1440), triamiphos (1441), triazamate (818), triazophos (820), triazuron (alternative name), trichlorfon (824), trichlormetaphos-3 (alternative name) [CCN], trichloronat (1452), trifenofos (1455), triflumuron (835), trimethacarb (840), triprene (1459), vamidothion (847), vaniliprole [CCN], veratridine (alternative name) (725), veratrine (alternative name) (725), XMC (853), xylylcarb (854), YI-5302 (compound code), zeta-cypermethrin (205), zetamethrin (alternative name), zinc phosphide (640), zolaprofos (1469) and ZXI 8901 (development code) (858),

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a molluscicide selected from the group of substances consisting of bis(tributyltin) oxide (IUPAC name) (913), bromoacetamide [CCN], calcium arsenate [CCN], cloethocarb (999), copper acetoarsenite [CCN], copper sulfate (172), fentin (347), ferric phosphate (IUPAC name) (352), metaldehyde (518), methiocarb (530), niclosamide (576), niclosamide-olamine (576), pentachlorophenol (623), sodium pentachlorophenoxide (623), tazimcarb (1412), thiodicarb (799), tributyltin oxide (913), trifenmorph (1454), trimethacarb (840), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

a nematicide selected from the group of substances consisting of 1,2-dibromo-3-chloropropane (IUPAC/Chemical Abstracts name) (1045), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1,3-dichloropropene (233), 3,4-dichlorotetrahydrothiophene 1,1-dioxide (IUPAC/Chemical Abstracts name) (1065), 3-(4-chlorophenyl)-5-methylrhodanine (IUPAC name) (980), 5-methyl-6-thioxo-1,3,5-thiadiazinan-3-ylacetic acid (IUPAC name) (1286), 6-isopentenylaminopurine (alternative name) (210), abamectin (1), acetoprole [CCN], alanycarb (15), aldicarb (16), aldoxycarb (863), AZ 60541 (compound code), benclothiaz [CCN], benomyl (62), butylpyridaben (alternative name), cadusafos (109), carbofuran (118), carbon disulfide (945), carbosulfan (119), chloropicrin (141), chlorpyrifos (145), cloethocarb (999), cytokinins (alternative name) (210), dazomet (216), DBCP (1045), DCIP (218), diamidafos (1044), dichlofenthion (1051), dicliphos (alternative name), dimethoate (262), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ethoprophos (312), ethylene dibromide (316), fenamiphos (326), fenpyrad (alternative name), fensulfothion (1158), fosthiazate (408), fosthietan (1196), furfural (alternative name) [CCN], GY-81 (development code) (423), heterophos [CCN], iodomethane (IUPAC name) (542), isamidofos (1230), isazofos (1231), ivermectin (alternative name) [CCN], kinetin (alternative name) (210), mecarphon (1258), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methyl bromide (537), methyl isothiocyanate (543), milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], *Myrothecium verrucaria* composition (alternative name) (565), NC-184 (compound code), oxamyl (602), phorate (636), phosphamidon (639), phosphocarb [CCN], sebufos (alternative name), selamectin (alternative name) [CCN], spinosad (737), terbam (alternative name), terbufos (773), tetrachlorothiophene (IUPAC/Chemical Abstracts name) (1422), thiafenox (alternative name), thionazin (1434), triazophos (820), triazuron (alternative name), xlenols [CCN], YI-5302 (compound code) and zeatin (alternative name) (210),

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a nitrification inhibitor selected from the group of substances consisting of potassium ethylxanthate [CCN] and nitrapyrin (580),

a plant activator selected from the group of substances consisting of acibenzolar (6), acibenzolar-S-methyl (6), probenazole (658) and *Reynoutria sachalinensis* extract (alternative name) (720),

a rodenticide selected from the group of substances consisting of 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), alpha-chlorohydrin [CCN], aluminium phosphide (640), antu (880), arsenous oxide (882), barium carbonate (891), bithiosemi (912), brodifacoum (89), bromadiolone (91), bromethalin (92), calcium cyanide (444), chloralose (127), chlorophacinone (140), cholecalciferol (alternative name) (850), coumachlor (1004), coumafuryl (1005), coumatetralyl (175), crimidine (1009), difenacoum (246), difethialone (249), diphacinone (273), ergocalciferol (301), flocoumafen (357), fluoroacetamide (379), flupropadine (1183), flupropadine hydrochloride (1183), gamma-HCH (430), HCH (430), hydrogen cyanide (444), iodomethane (IUPAC name) (542), lindane (430), magnesium phosphide (IUPAC name) (640), methyl bromide (537), norbormide (1318), phosacetim (1336), phosphine (IUPAC name) (640), phosphorus [CCN], pindone (1341), potassium arsenite [CCN], pyrinuron (1371), scilliroside (1390), sodium arsenite [CCN], sodium cyanide (444), sodium fluoroacetate (735), strychnine (745), thallium sulfate [CCN], warfarin (851) and zinc phosphide (640),

a synergist selected from the group of substances consisting of 2-(2-butoxyethoxy)-ethyl piperonylate (IUPAC name) (934), 5-(1,3-benzodioxol-5-yl)-3-hexylcyclohex-2-enone (IUPAC name) (903), farnesol with nerolidol (alternative name) (324), MB-599 (development code) (498), MGK 264 (development code) (296), piperonyl butoxide (649), piprotal (1343), propyl isomer (1358), S421 (development code) (724), sesamex (1393), sesasmolin (1394) and sulfoxide (1406),

an animal repellent selected from the group of substances consisting of anthraquinone (32), chloralose (127), copper naphthenate [CCN], copper oxychloride (171), diazinon (227), dicyclopentadiene (chemical name) (1069), guazatine (422), guazatine acetates (422), methiocarb (530), pyridin-4-amine (IUPAC name) (23), thiram (804), trimethacarb (840), zinc naphthenate [CCN] and ziram (856),

a virucide selected from the group of substances consisting of imanin (alternative name) [CCN] and ribavirin (alternative name) [CCN],

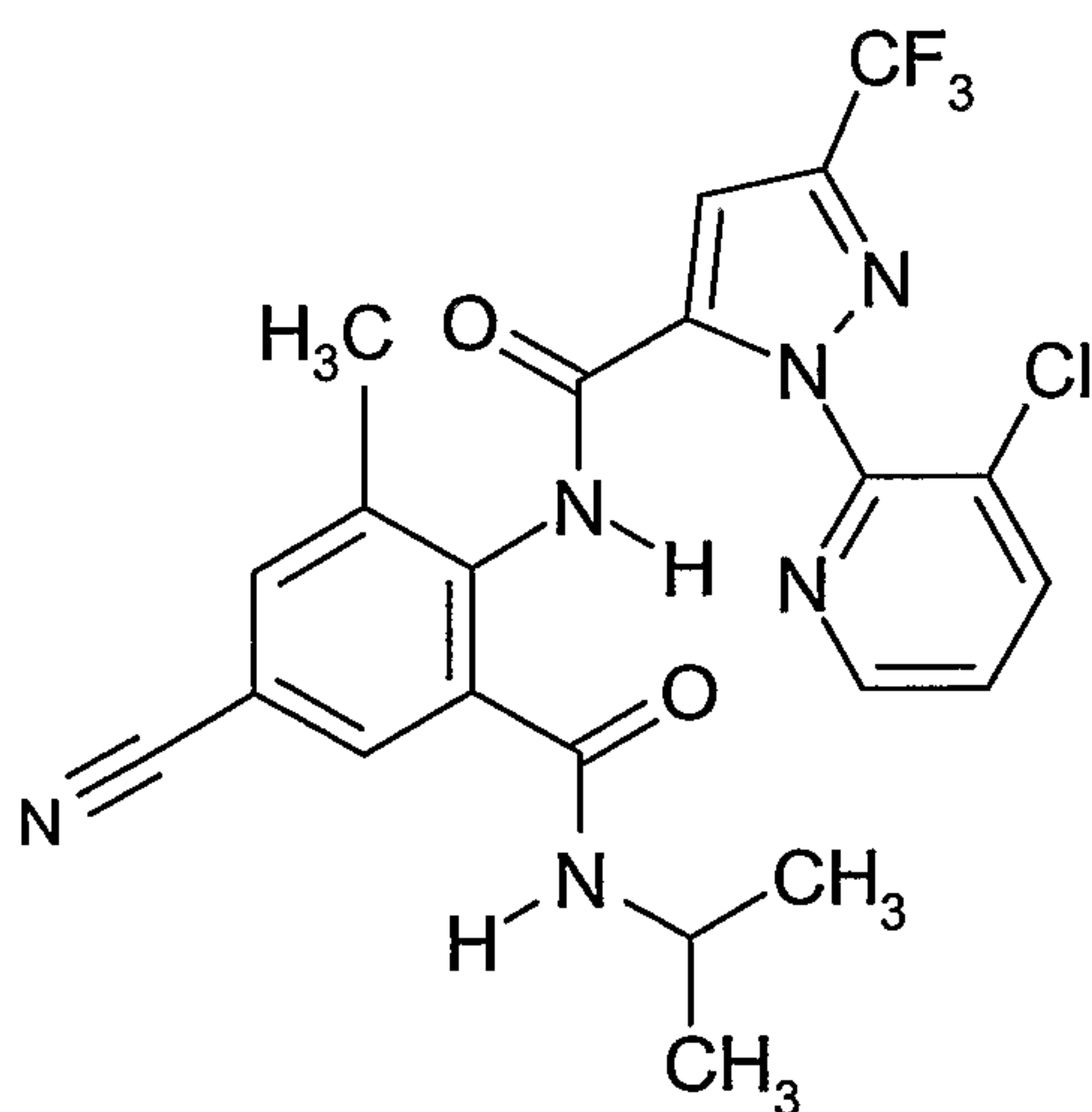
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and a wound protectant selected from the group of substances consisting of mercuric oxide (512), octhilinone (590) and thiophanate-methyl (802).

A very especially preferred embodiment of the subject-matter {1.1.15} of the invention is {1.1.15.2} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-15) and the compound (B) is a compound selected from the group of substances consisting of abamectin (1), cyromazine (209), diafenthiuron (226), diazinon (227), emamectin benzoate (291), fenoxycarb (340), fosthiazate (408), lambda-cyhalothrin (198), lufenuron (490), methidathion (529), profenofos (662), pymetrzine (688), tefluthrin (769) and thiamethoxam (792).

The compound of formula (A-15) is known, for example, from the PCT Application WO-03/015519.

A preferred embodiment of the subject-matter {1.1} of the invention is {1.1.16} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-16)



(A-16)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an

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insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

An especially preferred embodiment of the subject-matter {1.1.16} of the invention is {1.1.16.1} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-16) and the compound (B) is a compound selected from the group of substances consisting of an adjuvant selected from the group of substances consisting of petroleum oils (alternative name) (628),

an acaricide selected from the group of substances consisting of 1,1-bis(4-chlorophenyl)-2-ethoxyethanol (IUPAC name) (910), 2,4-dichlorophenyl benzenesulfonate (IUPAC/Chemical Abstracts name) (1059), 2-fluoro-*N*-methyl-*N*-1-naphthylacetamide (IUPAC name) (1295), 4-chlorophenyl phenyl sulfone (IUPAC name) (981), abamectin (1), acequinocyl (3), acetoprole [CCN], acrinathrin (9), aldicarb (16), aldoxycarb (863), alpha-cypermethrin (202), amidithion (870), amidoflumet [CCN], amidothioate (872), amiton (875), amiton hydrogen oxalate (875), amitraz (24), aramite (881), arsenous oxide (882), AVI 382 (compound code), AZ 60541 (compound code), azinphos-ethyl (44), azinphos-methyl (45), azobenzene (IUPAC name) (888), azocyclotin (46), azothoate (889), benomyl (62), benoxafos (alternative name) [CCN], benzoximate (71), benzyl benzoate (IUPAC name) [CCN], bifenazate (74), bifenthrin (76), binapacryl (907), brofenvalerate (alternative name), bromocyclen (918), bromophos (920), bromophos-ethyl (921), bromopropylate (94), buprofezin (99), butocarboxim (103), butoxycarboxim (104), butylpyridaben (alternative name), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbophenothion (947), CGA 50'439 (development code) (125), chinomethionat (126), chlorbenside (959), chlordimeform (964), chlordimeform hydrochloride (964), chlorfenapyr (130), chlorfenethol (968), chlorfenson (970), chlorfensulphide (971), chlorfenvinphos (131), chlorobenzilate (975), chloromebuform (977), chloromethiuron (978), chloropropylate (983), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), cinerin I (696), cinerin II (696), cinerins (696), clofentezine (158), closantel (alternative name) [CCN], coumaphos (174), crotamiton (alternative name) [CCN], crotoxyphos (1010), cufraneb (1013), cyanthoate (1020), cyhalothrin (196), cyhexatin (199), cypermethrin (201), DCPM (1032), DDT (219), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224),

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demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafen-thiuron (226), dialifos (1042), diazinon (227), dichlofluanid (230), dichlorvos (236), dicliphos (alternative name), dicofol (242), dicrotophos (243), dienochlor (1071), dimefox (1081), dimethoate (262), dinactin (alternative name) (653), dinex (1089), dinex-diclexine (1089), dinobuton (269), dinocap (270), dinocap-4 [CCN], dinocap-6 [CCN], dinocton (1090), dino-penton (1092), dinosulfon (1097), dinoterbon (1098), dioxathion (1102), diphenyl sulfone (IUPAC name) (1103), disulfiram (alternative name) [CCN], disulfoton (278), DNOC (282), dofenapyn (1113), doramectin (alternative name) [CCN], endosulfan (294), endothion (1121), EPN (297), eprinomectin (alternative name) [CCN], ethion (309), ethoate-methyl (1134), etoxazole (320), etrimfos (1142), fenazaflor (1147), fenazaquin (328), fenbutatin oxide (330), fenothiocarb (337), fenpropathrin (342), fenpyrad (alternative name), fen-pyroximate (345), fenson (1157), fentrifanil (1161), fenvalerate (349), fipronil (354), fluacry-pyrim (360), fluazuron (1166), flubenzimine (1167), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenoxuron (370), flumethrin (372), fluorbenside (1174), fluvalinate (1184), FMC 1137 (development code) (1185), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), gamma-HCH (430), glyodin (1205), halfenprox (424), heptenophos (432), hexadecyl cyclopropanecarboxylate (IUPAC/Chemical Abstracts name) (1216), hexythiazox (441), iodomethane (IUPAC name) (542), isocarbophos (alternative name) (473), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), lindane (430), lufenuron (490), malathion (492), malonoben (1254), mecarbam (502), mephosfolan (1261), mesulfen (alternative name) [CCN], methacrifos (1266), methamidophos (527), methidathion (529), methiocarb (530), methomyl (531), methyl bromide (537), metolcarb (550), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naled (567), NC-184 (compound code), nifluridide (1309), nikkomycins (alternative name) [CCN], nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), omethoate (594), oxamyl (602), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), parathion (615), permethrin (626), petroleum oils (alternative name) (628), phenkapton (1330), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosphamidon (639), phoxim (642), pirimiphos-methyl (652), polychloroterpenes (traditional name) (1347), polynactins (alternative name) (653), proclonol (1350), profenofos (662), promacyl (1354), propargite (671), propetamphos (673), propoxur (678), prothidathion

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(1360), prothoate (1362), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), quinalphos (711), quintiofos (1381), R-1492 (development code) (1382), RA-17 (development code) (1383), rotenone (722), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), sophamide (1402), spirodiclofen (738), spiromesifen (739), SSI-121 (development code) (1404), sulfiram (alternative name) [CCN], sulfluramid (750), sulfotep (753), sulfur (754), SZI-121 (development code) (757), tau-fluvalinate (398), tebufenpyrad (763), TEPP (1417), terbam (alternative name), tetrachlorvinphos (777), tetradifon (786), tetranactin (alternative name) (653), tetrasul (1425), thiafenox (alternative name), thiocarboxime (1431), thiofanox (800), thiometon (801), thioquinox (1436), thuringiensin (alternative name) [CCN], triamiphos (1441), triarathene (1443), triazophos (820), triazuron (alternative name), trichlorfon (824), trifenofos (1455), trinactin (alternative name) (653), vamidothion (847), vaniliprole [CCN] and YI-5302 (compound code),

an algicide selected from the group of substances consisting of bethoxazin [CCN], copper dioctanoate (IUPAC name) (170), copper sulfate (172), cybutryne [CCN], dichlone (1052), dichlorophen (232), endothal (295), fentin (347), hydrated lime [CCN], nabam (566), quinoclamine (714), quinonamid (1379), simazine (730), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

an anthelmintic selected from the group of substances consisting of abamectin (1), crufomate (1011), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ivermectin (alternative name) [CCN], milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], piperazine [CCN], selamectin (alternative name) [CCN], spinosad (737) and thiophanate (1435),

an avicide selected from the group of substances consisting of chloralose (127), endrin (1122), fenthion (346), pyridin-4-amine (IUPAC name) (23) and strychnine (745),

a bactericide selected from the group of substances consisting of 1-hydroxy-1*H*-pyridine-2-thione (IUPAC name) (1222), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), 8-hydroxyquinoline sulfate (446), bronopol (97), copper dioctanoate (IUPAC name) (170), copper hydroxide (IUPAC name) (169), cresol [CCN], dichlorophen (232), dipyrithione (1105), dodicin (1112), fenaminosulf (1144), formaldehyde (404), hydrargaphen (alternative name) [CCN], kasugamycin (483), kasugamycin hydrochloride hydrate (483), nickel bis(dimethyldithiocarbamate) (IUPAC name) (1308), nitrapyrin (580), octhilinone (590), oxolinic acid (606), oxytetracycline (611), potassium hydroxyquinoline

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sulfate (446), probenazole (658), streptomycin (744), streptomycin sesquisulfate (744), tecloftalam (766) and thiomersal (alternative name) [CCN],

a biological agent selected from the group of substances consisting of *Adoxophyes orana* GV (alternative name) (12), *Agrobacterium radiobacter* (alternative name) (13), *Amblyseius* spp. (alternative name) (19), *Anagrapha falcifera* NPV (alternative name) (28), *Anagrus atomus* (alternative name) (29), *Aphelinus abdominalis* (alternative name) (33), *Aphidius colemani* (alternative name) (34), *Aphidoletes aphidimyza* (alternative name) (35), *Autographa californica* NPV (alternative name) (38), *Bacillus firmus* (alternative name) (48), *Bacillus sphaericus* Neide (scientific name) (49), *Bacillus thuringiensis* Berliner (scientific name) (51), *Bacillus thuringiensis* subsp. *aizawai* (scientific name) (51), *Bacillus thuringiensis* subsp. *israelensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *japonensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *kurstaki* (scientific name) (51), *Bacillus thuringiensis* subsp. *tenebrionis* (scientific name) (51), *Beauveria bassiana* (alternative name) (53), *Beauveria brongniartii* (alternative name) (54), *Chrysoperla carnea* (alternative name) (151), *Cryptolaemus montrouzieri* (alternative name) (178), *Cydia pomonella* GV (alternative name) (191), *Dacnusa sibirica* (alternative name) (212), *Diglyphus isaea* (alternative name) (254), *Encarsia formosa* (scientific name) (293), *Eretmocerus eremicus* (alternative name) (300), *Helicoverpa zea* NPV (alternative name) (431), *Heterorhabditis bacteriophora* and *H. megidis* (alternative name) (433), *Hippodamia convergens* (alternative name) (442), *Leptomastix dactylopii* (alternative name) (488), *Macrolophus caliginosus* (alternative name) (491), *Mamestra brassicae* NPV (alternative name) (494), *Metaphycus helvolus* (alternative name) (522), *Metarhizium anisopliae* var. *acridum* (scientific name) (523), *Metarhizium anisopliae* var. *anisopliae* (scientific name) (523), *Neodiprion sertifer* NPV and *N. lecontei* NPV (alternative name) (575), *Orius* spp. (alternative name) (596), *Paecilomyces fumosoroseus* (alternative name) (613), *Phytoseiulus persimilis* (alternative name) (644), *Spodoptera exigua* multicapsid nuclear polyhedrosis virus (scientific name) (741), *Steinernema bibionis* (alternative name) (742), *Steinernema carpocapsae* (alternative name) (742), *Steinernema feltiae* (alternative name) (742), *Steinernema glaseri* (alternative name) (742), *Steinernema riobrave* (alternative name) (742), *Steinernema riobravus* (alternative name) (742), *Steinernema scapterisci* (alternative name) (742), *Steinernema* spp. (alternative name) (742), *Trichogramma* spp. (alternative name) (826), *Typhlodromus occidentalis* (alternative name) (844) and *Verticillium lecanii* (alternative name) (848),

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a soil sterilant selected from the group of substances consisting of iodomethane (IUPAC name) (542) and methyl bromide (537),

a chemosterilant selected from the group of substances consisting of apholate [CCN], bisazir (alternative name) [CCN], busulfan (alternative name) [CCN], diflubenzuron (250), dimatif (alternative name) [CCN], hemel [CCN], hempa [CCN], metepa [CCN], methiotepa [CCN], methyl apholate [CCN], morzid [CCN], penfluron (alternative name) [CCN], tepa [CCN], thiohempa (alternative name) [CCN], thiotepa (alternative name) [CCN], tretamine (alternative name) [CCN] and uredepa (alternative name) [CCN],

an insect pheromone selected from the group of substances consisting of (*E*)-dec-5-en-1-yl acetate with (*E*)-dec-5-en-1-ol (IUPAC name) (222), (*E*)-tridec-4-en-1-yl acetate (IUPAC name) (829), (*E*)-6-methylhept-2-en-4-ol (IUPAC name) (541), (*E,Z*)-tetradeca-4,10-dien-1-yl acetate (IUPAC name) (779), (*Z*)-dodec-7-en-1-yl acetate (IUPAC name) (285), (*Z*)-hexadec-11-enal (IUPAC name) (436), (*Z*)-hexadec-11-en-1-yl acetate (IUPAC name) (437), (*Z*)-hexadec-13-en-11-yn-1-yl acetate (IUPAC name) (438), (*Z*)-icos-13-en-10-one (IUPAC name) (448), (*Z*)-tetradec-7-en-1-al (IUPAC name) (782), (*Z*)-tetradec-9-en-1-ol (IUPAC name) (783), (*Z*)-tetradec-9-en-1-yl acetate (IUPAC name) (784), (*7E,9Z*)-dodeca-7,9-dien-1-yl acetate (IUPAC name) (283), (*9Z,11E*)-tetradeca-9,11-dien-1-yl acetate (IUPAC name) (780), (*9Z,12E*)-tetradeca-9,12-dien-1-yl acetate (IUPAC name) (781), 14-methyloctadec-1-ene (IUPAC name) (545), 4-methylnonan-5-ol with 4-methylnonan-5-one (IUPAC name) (544), alpha-multistriatin (alternative name) [CCN], brevicomin (alternative name) [CCN], codlelure (alternative name) [CCN], codlemone (alternative name) (167), cuelure (alternative name) (179), disparlure (277), dodec-8-en-1-yl acetate (IUPAC name) (286), dodec-9-en-1-yl acetate (IUPAC name) (287), dodeca-8,10-dien-1-yl acetate (IUPAC name) (284), dominicalure (alternative name) [CCN], ethyl 4-methyloctanoate (IUPAC name) (317), eugenol (alternative name) [CCN], frontalinal (alternative name) [CCN], gossyplure (alternative name) (420), grandlure (421), grandlure I (alternative name) (421), grandlure II (alternative name) (421), grandlure III (alternative name) (421), grandlure IV (alternative name) (421), hexalure [CCN], ipsdienol (alternative name) [CCN], ipsenol (alternative name) [CCN], japonilure (alternative name) (481), lineatin (alternative name) [CCN], litlure (alternative name) [CCN], looplure (alternative name) [CCN], medlure [CCN], megatomoic acid (alternative name) [CCN], methyl eugenol (alternative name) (540), muscalure (563), octadeca-2,13-dien-1-yl acetate (IUPAC name) (588), octadeca-3,13-dien-1-yl acetate (IUPAC name) (589), orfralure (alternative name) [CCN], oryctalure (alternative name) (317), ostramone (alternative name) [CCN], siglure [CCN], sordidin (alternative name) (736),

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sulcatol (alternative name) [CCN], tetradec-11-en-1-yl acetate (IUPAC name) (785), trimedlure (839), trimedlure A (alternative name) (839), trimedlure B₁ (alternative name) (839), trimedlure B₂ (alternative name) (839), trimedlure C (alternative name) (839) and trunc-call (alternative name) [CCN],

an insect repellent selected from the group of substances consisting of 2-(octylthio)-ethanol (IUPAC name) (591), butopyronoxyl (933), butoxy(polypropylene glycol) (936), dibutyl adipate (IUPAC name) (1046), dibutyl phthalate (1047), dibutyl succinate (IUPAC name) (1048), diethyltoluamide [CCN], dimethyl carbate [CCN], dimethyl phthalate [CCN], ethyl hexanediol (1137), hexamide [CCN], methoquin-butyl (1276), methylneodecanamide [CCN], oxamate [CCN] and picaridin [CCN],

an insecticide selected from the group of substances consisting of 1,1-dichloro-1-nitroethane (IUPAC/Chemical Abstracts name) (1058), 1,1-dichloro-2,2-bis(4-ethylphenyl)-ethane (IUPAC name) (1056), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1-bromo-2-chloroethane (IUPAC/Chemical Abstracts name) (916), 2,2,2-trichloro-1-(3,4-dichlorophenyl)ethyl acetate (IUPAC name) (1451), 2,2-dichlorovinyl 2-ethylsulfinyethyl methyl phosphate (IUPAC name) (1066), 2-(1,3-dithiolan-2-yl)phenyl dimethylcarbamate (IUPAC/Chemical Abstracts name) (1109), 2-(2-butoxyethoxy)ethyl thiocyanate (IUPAC/Chemical Abstracts name) (935), 2-(4,5-dimethyl-1,3-dioxolan-2-yl)phenyl methylcarbamate (IUPAC/Chemical Abstracts name) (1084), 2-(4-chloro-3,5-xylyloxy)ethanol (IUPAC name) (986), 2-chlorovinyl diethyl phosphate (IUPAC name) (984), 2-imidazolidone (IUPAC name) (1225), 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 2-methyl(prop-2-ynyl)aminophenyl methylcarbamate (IUPAC name) (1284), 2-thiocyanatoethyl laurate (IUPAC name) (1433), 3-bromo-1-chloroprop-1-ene (IUPAC name) (917), 3-methyl-1-phenylpyrazol-5-yl dimethylcarbamate (IUPAC name) (1283), 4-methyl(prop-2-ynyl)amino-3,5-xylyl methylcarbamate (IUPAC name) (1285), 5,5-dimethyl-3-oxocyclohex-1-enyl dimethylcarbamate (IUPAC name) (1085), abamectin (1), acephate (2), acetamiprid (4), acethion (alternative name) [CCN], acetoprole [CCN], acrinathrin (9), acrylonitrile (IUPAC name) (861), alanycarb (15), aldicarb (16), aldoxycarb (863), aldrin (864), allethrin (17), allosamidin (alternative name) [CCN], allyxycarb (866), alpha-cypermethrin (202), alpha-ecdysone (alternative name) [CCN], aluminium phosphide (640), amidithion (870), amidothioate (872), aminocarb (873), amiton (875), amiton hydrogen oxalate (875), amitraz (24), anabasine (877), athidathion (883), AVI 382 (compound code), AZ 60541 (compound code), azadirachtin (alternative name) (41), azamethiphos (42), azinphos-ethyl (44), azinphos-methyl (45), azothoate (889), *Bacillus*

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thuringiensis delta endotoxins (alternative name) (52), barium hexafluorosilicate (alternative name) [CCN], barium polysulfide (IUPAC/Chemical Abstracts name) (892), barthrin [CCN], BAS 320 I (compound code), Bayer 22/190 (development code) (893), Bayer 22408 (development code) (894), bendiocarb (58), benfuracarb (60), bensultap (66), beta-cyfluthrin (194), beta-cypermethrin (203), bifenthrin (76), bioallethrin (78), bioallethrin S-cyclopentenyl isomer (alternative name) (79), bioethanomethrin [CCN], biopermethrin (908), bioresmethrin (80), bis(2-chloroethyl) ether (IUPAC name) (909), bistrifluron (83), borax (86), brofenvalerate (alternative name), bromfeninfos (914), bromocyclen (918), bromo-DDT (alternative name) [CCN], bromophos (920), bromophos-ethyl (921), bufencarb (924), buprofezin (99), butacarb (926), butathiofos (927), butocarboxim (103), butonate (932), butoxycarboxim (104), butylpyridaben (alternative name), cadusafos (109), calcium arsenate [CCN], calcium cyanide (444), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbon disulfide (IUPAC/Chemical Abstracts name) (945), carbon tetrachloride (IUPAC name) (946), carbophenothion (947), carbosulfan (119), cartap (123), cartap hydrochloride (123), cevadine (alternative name) (725), chlorbicyclen (960), chlordane (128), chlordecone (963), chlordimeform (964), chlordimeform hydrochloride (964), chlorethoxyfos (129), chlorfenapyr (130), chlorfenvinphos (131), chlorfluazuron (132), chlormephos (136), chloroform [CCN], chloropicrin (141), chlorphoxim (989), chlorprazophos (990), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), chromafenozide (150), cinerin I (696), cinerin II (696), cinerins (696), cis-resmethrin (alternative name), cismethrin (80), clocythrin (alternative name), cloethocarb (999), closantel (alternative name) [CCN], clothianidin (165), copper acetoarsenite [CCN], copper arsenate [CCN], copper oleate [CCN], coumaphos (174), coumithoate (1006), crotamiton (alternative name) [CCN], crotoxyphos (1010), cruformate (1011), cryolite (alternative name) (177), CS 708 (development code) (1012), cyanofenphos (1019), cyanophos (184), cyanthoate (1020), cyclethrin [CCN], cycloprothrin (188), cyfluthrin (193), cyhalothrin (196), cypermethrin (201), cyphenothrin (206), cyromazine (209), cythioate (alternative name) [CCN], *d*-limonene (alternative name) [CCN], *d*-tetramethrin (alternative name) (788), DAEP (1031), dazomet (216), DDT (219), decarbofuran (1034), deltamethrin (223), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthiuron (226), dialifos (1042), diamidafos (1044), diazinon (227), dicapthon (1050), dichlofenthion (1051), dichlorvos (236), dicliphos (alternative name), dicresyl (alternative name) [CCN], dicrotophos

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(243), dicyclanil (244), dieldrin (1070), diethyl 5-methylpyrazol-3-yl phosphate (IUPAC name) (1076), diflubenzuron (250), dilor (alternative name) [CCN], dimefluthrin [CCN], dimefox (1081), dimetan (1085), dimethoate (262), dimethrin (1083), dimethylvinphos (265), dimetilan (1086), dinex (1089), dinex-diclexine (1089), dinoprop (1093), dinosam (1094), dinoseb (1095), dinotefuran (271), diofenolan (1099), dioxabenzofos (1100), dioxacarb (1101), dioxathion (1102), disulfoton (278), dithicrofos (1108), DNOC (282), doramectin (alternative name) [CCN], DSP (1115), ecdysterone (alternative name) [CCN], EI 1642 (development code) (1118), emamectin (291), emamectin benzoate (291), EMPC (1120), empenthrin (292), endosulfan (294), endothion (1121), endrin (1122), EPBP (1123), EPN (297), epofenonane (1124), eprinomectin (alternative name) [CCN], esfenvalerate (302), etaphos (alternative name) [CCN], ethiofencarb (308), ethion (309), ethiprole (310), ethoate-methyl (1134), ethoprophos (312), ethyl formate (IUPAC name) [CCN], ethyl-DDD (alternative name) (1056), ethylene dibromide (316), ethylene dichloride (chemical name) (1136), ethylene oxide [CCN], etofenprox (319), etrimfos (1142), EXD (1143), famphur (323), fenamiphos (326), fenazaflor (1147), fenchlorphos (1148), fenethacarb (1149), fenfluthrin (1150), fenitrothion (335), fenobucarb (336), fenoxacrim (1153), fenoxycarb (340), fenpirithrin (1155), fenpropathrin (342), fenpyrad (alternative name), fensulfothion (1158), fenthion (346), fenthion-ethyl [CCN], fenvalerate (349), fipronil (354), flonicamid (358), flucofuron (1168), flucyclohexuron (366), flucythrinate (367), fluenetil (1169), flufenerim [CCN], flufenoxuron (370), flufenprox (1171), flumethrin (372), fluvalinate (1184), FMC 1137 (development code) (1185), fonofos (1191), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), fosmethilan (1194), fospirate (1195), fosthiazate (408), fosthietan (1196), furathiocarb (412), furethrin (1200), gamma-cyhalothrin (197), gamma-HCH (430), guazatine (422), guazatine acetates (422), GY-81 (development code) (423), halfenprox (424), halofenozide (425), HCH (430), HEOD (1070), heptachlor (1211), heptenophos (432), heterophos [CCN], hexaflumuron (439), HHDN (864), hydramethylnon (443), hydrogen cyanide (444), hydroprene (445), hyquincarb (1223), imidacloprid (458), imiprothrin (460), indoxacarb (465), iodomethane (IUPAC name) (542), IPSP (1229), isazofos (1231), isobenzan (1232), isocarbophos (alternative name) (473), isodrin (1235), isofenphos (1236), isolane (1237), isoprocarb (472), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), isoprothiolane (474), isothioate (1244), isoxathion (480), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), juvenile hormone I (alternative name) [CCN], juvenile hormone II (alternative name) [CCN], juvenile hormone III (alternative name) [CCN], kelevan (1249),

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kinoprene (484), lambda-cyhalothrin (198), lead arsenate [CCN], leptophos (1250), lindane (430), lirimfos (1251), lufenuron (490), lythidathion (1253), *m*-cumenyl methylcarbamate (IUPAC name) (1014), magnesium phosphide (IUPAC name) (640), malathion (492), malonoben (1254), mazidox (1255), mecarbam (502), mecarphon (1258), menazon (1260), mephosfolan (1261), mercurous chloride (513), mesulfenfos (1263), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methacrifos (1266), methamidophos (527), methanesulfonyl fluoride (IUPAC/Chemical Abstracts name) (1268), methidathion (529), methiocarb (530), methocrotophos (1273), methomyl (531), methoprene (532), methoquin-butyl (1276), methothrin (alternative name) (533), methoxychlor (534), methoxyfenozide (535), methyl bromide (537), methyl isothiocyanate (543), methylchloroform (alternative name) [CCN], methylene chloride [CCN], metofluthrin [CCN], metolcarb (550), metoxadiazone (1288), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), mirex (1294), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naftalofos (alternative name) [CCN], naled (567), naphthalene (IUPAC/Chemical Abstracts name) (1303), NC-170 (development code) (1306), NC-184 (compound code), nicotine (578), nicotine sulfate (578), nifluridide (1309), nitenpyram (579), nithiazine (1311), nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), nornicotine (traditional name) (1319), novaluron (585), noviflumuron (586), O-2,5-dichloro-4-iodophenyl O-ethyl ethylphosphonothioate (IUPAC name) (1057), O,O-diethyl O-4-methyl-2-oxo-2*H*-chromen-7-yl phosphorothioate (IUPAC name) (1074), O,O-diethyl O-6-methyl-2-propylpyrimidin-4-yl phosphorothioate (IUPAC name) (1075), O,O,O',O'-tetrapropyl dithiopyrophosphate (IUPAC name) (1424), oleic acid (IUPAC name) (593), omethoate (594), oxamyl (602), oxydemeton-methyl (609), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), para-dichlorobenzene [CCN], parathion (615), parathion-methyl (616), penfluron (alternative name) [CCN], pentachlorophenol (623), pentachlorophenyl laurate (IUPAC name) (623), permethrin (626), petroleum oils (alternative name) (628), PH 60-38 (development code) (1328), phenkapton (1330), phenothrin (630), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosnichlor (1339), phosphamidon (639), phosphine (IUPAC name) (640), phoxim (642), phoxim-methyl (1340), pirimetaphos (1344), pirimicarb (651), pirimiphos-ethyl (1345), pirimiphos-methyl (652), polychlorodicyclopentadiene isomers (IUPAC name) (1346), polychloroterpenes (traditional name) (1347), potassium arsenite [CCN], potassium thiocyanate [CCN], prallethrin (655), precocene I (alternative name) [CCN], precocene II

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(alternative name) [CCN], precocene III (alternative name) [CCN], primidophos (1349), profenofos (662), profluthrin [CCN], promacyl (1354), promecarb (1355), propaphos (1356), propetamphos (673), propoxur (678), prothidathion (1360), prothiofos (686), prothoate (1362), protrifenbute [CCN], pymetrozine (688), pyraclofos (689), pyrazophos (693), pyresmethrin (1367), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridalyl (700), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), pyriproxyfen (708), quassia (alternative name) [CCN], quinalphos (711), quinalphos-methyl (1376), quinothion (1380), quintiofos (1381), R-1492 (development code) (1382), rafoxanide (alternative name) [CCN], resmethrin (719), rotenone (722), RU 15525 (development code) (723), RU 25475 (development code) (1386), ryania (alternative name) (1387), ryanodine (traditional name) (1387), sabadilla (alternative name) (725), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), silafluofen (728), SN 72129 (development code) (1397), sodium arsenite [CCN], sodium cyanide (444), sodium fluoride (IUPAC/Chemical Abstracts name) (1399), sodium hexafluorosilicate (1400), sodium pentachlorophenoxide (623), sodium selenate (IUPAC name) (1401), sodium thiocyanate [CCN], sophamide (1402), spinosad (737), spiromesifen (739), sulcofuron (746), sulcofuron-sodium (746), sulfluramid (750), sulfotep (753), sulfuryl fluoride (756), sulprofos (1408), tar oils (alternative name) (758), tau-fluvalinate (398), tazimcarb (1412), TDE (1414), tebufenozide (762), tebufenpyrad (763), tebupirimfos (764), teflubenzuron (768), tefluthrin (769), temephos (770), TEPP (1417), terallethrin (1418), terbam (alternative name), terbufos (773), tetrachloroethane [CCN], tetrachlorvinphos (777), tetramethrin (787), theta-cypermethrin (204), thiacloprid (791), thiafenox (alternative name), thiamethoxam (792), thicrofos (1428), thiocarboxime (1431), thiocyclam (798), thiocyclam hydrogen oxalate (798), thiodicarb (799), thiofanox (800), thiometon (801), thionazin (1434), thiosultap (803), thiosultap-sodium (803), thuringiensin (alternative name) [CCN], tolfenpyrad (809), tralomethrin (812), transfluthrin (813), transpermethrin (1440), triamiphos (1441), triazamate (818), triazophos (820), triazuron (alternative name), trichlorfon (824), trichlormetaphos-3 (alternative name) [CCN], trichloronat (1452), trifenofos (1455), triflumuron (835), trimethacarb (840), triprene (1459), vamidothion (847), vaniliprole [CCN], veratridine (alternative name) (725), veratrine (alternative name) (725), XMC (853), xylylcarb (854), YI-5302 (compound code), zeta-cypermethrin (205), zetamethrin (alternative name), zinc phosphide (640), zolaprofos (1469) and ZXI 8901 (development code) (858),

a molluscicide selected from the group of substances consisting of bis(tributyltin) oxide (IUPAC name) (913), bromoacetamide [CCN], calcium arsenate [CCN], cloethocarb (999),

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copper acetoarsenite [CCN], copper sulfate (172), fentin (347), ferric phosphate (IUPAC name) (352), metaldehyde (518), methiocarb (530), niclosamide (576), niclosamide-olamine (576), pentachlorophenol (623), sodium pentachlorophenoxide (623), tazimcarb (1412), thiodicarb (799), tributyltin oxide (913), trifenmorph (1454), trimethacarb (840), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

a nematocide selected from the group of substances consisting of 1,2-dibromo-3-chloropropane (IUPAC/Chemical Abstracts name) (1045), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1,3-dichloropropene (233), 3,4-dichlorotetrahydrothiophene 1,1-dioxide (IUPAC/Chemical Abstracts name) (1065), 3-(4-chlorophenyl)-5-methylrhodanine (IUPAC name) (980), 5-methyl-6-thioxo-1,3,5-thiadiazinan-3-ylacetic acid (IUPAC name) (1286), 6-isopentenylaminopurine (alternative name) (210), abamectin (1), acetoprole [CCN], alanycarb (15), aldicarb (16), aldoxycarb (863), AZ 60541 (compound code), benclothiaz [CCN], benomyl (62), butylpyridaben (alternative name), cadusafos (109), carbofuran (118), carbon disulfide (945), carbosulfan (119), chloropicrin (141), chlorpyrifos (145), cloethocarb (999), cytokinins (alternative name) (210), dazomet (216), DBCP (1045), DCIP (218), diamidafos (1044), dichlofenthion (1051), dicliphos (alternative name), dimethoate (262), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ethoprophos (312), ethylene dibromide (316), fenamiphos (326), fenpyrad (alternative name), fensulfothion (1158), fosthiazate (408), fosthietan (1196), furfural (alternative name) [CCN], GY-81 (development code) (423), heterophos [CCN], iodomethane (IUPAC name) (542), isamidofos (1230), isazofos (1231), ivermectin (alternative name) [CCN], kinetin (alternative name) (210), mecarphon (1258), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methyl bromide (537), methyl isothiocyanate (543), milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], *Myrothecium verrucaria* composition (alternative name) (565), NC-184 (compound code), oxamyl (602), phorate (636), phosphamidon (639), phosphocarb [CCN], sebufos (alternative name), selamectin (alternative name) [CCN], spinosad (737), terbam (alternative name), terbufos (773), tetrachlorothiophene (IUPAC/Chemical Abstracts name) (1422), thiafenox (alternative name), thionazin (1434), triazophos (820), triazuron (alternative name), xlenols [CCN], YI-5302 (compound code) and zeatin (alternative name) (210),

a nitrification inhibitor selected from the group of substances consisting of potassium ethylxanthate [CCN] and nitrapyrin (580),

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a plant activator selected from the group of substances consisting of acibenzolar (6), acibenzolar-S-methyl (6), probenazole (658) and *Reynoutria sachalinensis* extract (alternative name) (720),

a rodenticide selected from the group of substances consisting of 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), alpha-chlorohydrin [CCN], aluminium phosphide (640), antu (880), arsenous oxide (882), barium carbonate (891), bithiosemi (912), brodifacoum (89), bromadiolone (91), bromethalin (92), calcium cyanide (444), chloralose (127), chlorophacinone (140), cholecalciferol (alternative name) (850), coumachlor (1004), coumafuryl (1005), coumatetralyl (175), crimidine (1009), difenacoum (246), difethialone (249), diphacinone (273), ergocalciferol (301), flocoumafen (357), fluoroacetamide (379), flupropadine (1183), flupropadine hydrochloride (1183), gamma-HCH (430), HCH (430), hydrogen cyanide (444), iodomethane (IUPAC name) (542), lindane (430), magnesium phosphide (IUPAC name) (640), methyl bromide (537), norbormide (1318), phosacetim (1336), phosphine (IUPAC name) (640), phosphorus [CCN], pindone (1341), potassium arsenite [CCN], pyrinuron (1371), scilliroside (1390), sodium arsenite [CCN], sodium cyanide (444), sodium fluoroacetate (735), strychnine (745), thallium sulfate [CCN], warfarin (851) and zinc phosphide (640),

a synergist selected from the group of substances consisting of 2-(2-butoxyethoxy)-ethyl piperonylate (IUPAC name) (934), 5-(1,3-benzodioxol-5-yl)-3-hexylcyclohex-2-enone (IUPAC name) (903), farnesol with nerolidol (alternative name) (324), MB-599 (development code) (498), MGK 264 (development code) (296), piperonyl butoxide (649), piprotal (1343), propyl isomer (1358), S421 (development code) (724), sesamex (1393), sesasmolin (1394) and sulfoxide (1406),

an animal repellent selected from the group of substances consisting of anthraquinone (32), chloralose (127), copper naphthenate [CCN], copper oxychloride (171), diazinon (227), dicyclopentadiene (chemical name) (1069), guazatine (422), guazatine acetates (422), methiocarb (530), pyridin-4-amine (IUPAC name) (23), thiram (804), trimethacarb (840), zinc naphthenate [CCN] and ziram (856),

a virucide selected from the group of substances consisting of imanin (alternative name) [CCN] and ribavirin (alternative name) [CCN],

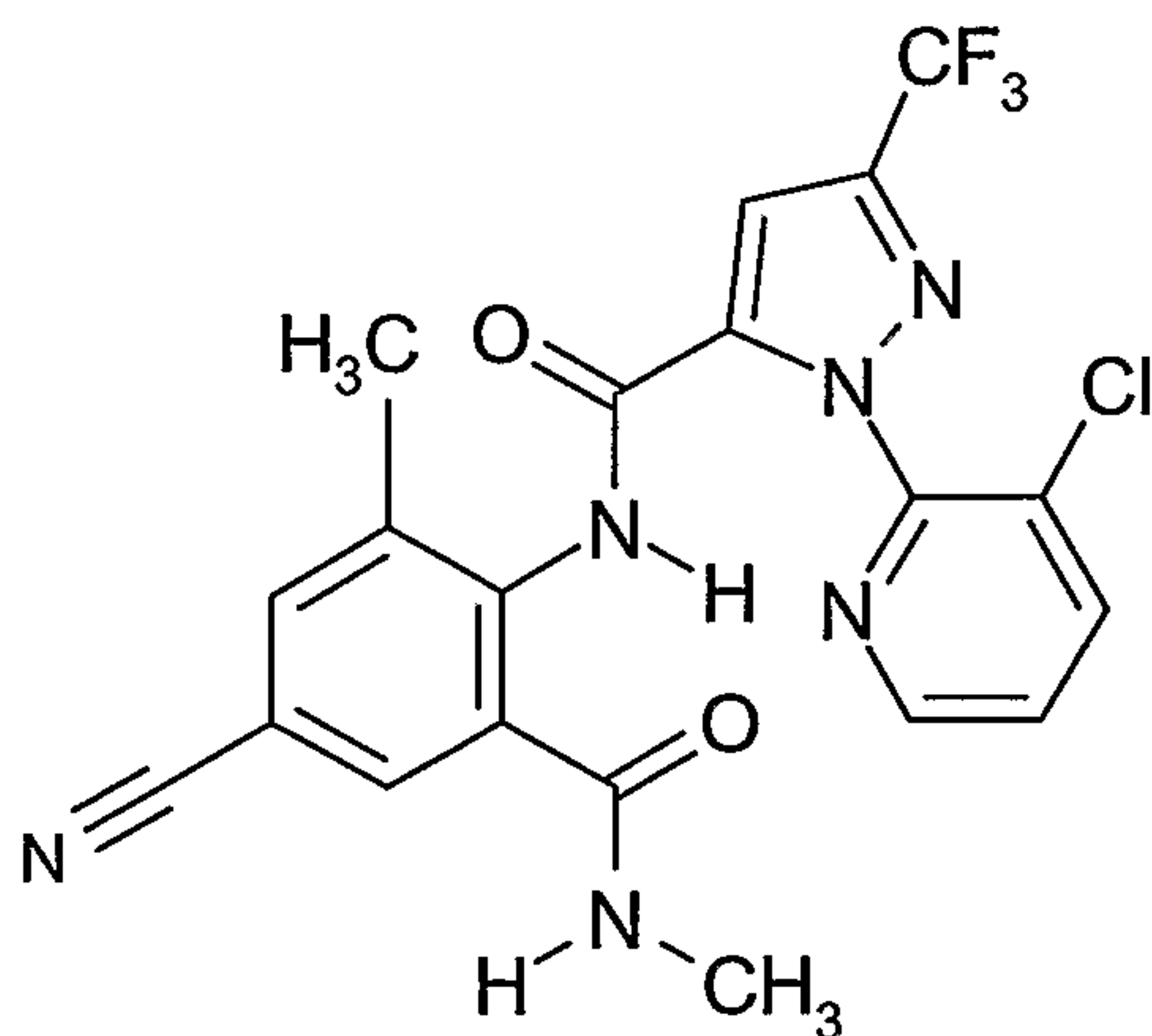
and a wound protectant selected from the group of substances consisting of mercuric oxide (512), octhilinone (590) and thiophanate-methyl (802).

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A very especially preferred embodiment of the subject-matter {1.1.16} of the invention is {1.1.16.2} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-16) and the compound (B) is a compound selected from the group of substances consisting of abamectin (1), cyromazine (209), diafenthiuron (226), diazinon (227), emamectin benzoate (291), fenoxycarb (340), fosthiazate (408), lambda-cyhalothrin (198), lufenuron (490), methidathion (529), profenofos (662), pymetrozine (688), tefluthrin (769) and thiamethoxam (792).

The compound of formula (A-16) is known, for example, from the PCT Application WO-04/067528.

A preferred embodiment of the subject-matter {1.1} of the invention is {1.1.17} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-17)



(A-17)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

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An especially preferred embodiment of the subject-matter {1.1.17} of the invention is {1.1.17.1} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-17) and the compound (B) is a compound selected from the group of substances consisting of

an adjuvant selected from the group of substances consisting of petroleum oils (alternative name) (628),

an acaricide selected from the group of substances consisting of 1,1-bis(4-chlorophenyl)-2-ethoxyethanol (IUPAC name) (910), 2,4-dichlorophenyl benzenesulfonate (IUPAC/Chemical Abstracts name) (1059), 2-fluoro-*N*-methyl-*N*-1-naphthylacetamide (IUPAC name) (1295), 4-chlorophenyl phenyl sulfone (IUPAC name) (981), abamectin (1), acequinocyl (3), acetoprole [CCN], acrinathrin (9), aldicarb (16), aldoxycarb (863), alpha-cypermethrin (202), amidithion (870), amidoflumet [CCN], amidothioate (872), amiton (875), amiton hydrogen oxalate (875), amitraz (24), aramite (881), arsenous oxide (882), AVI 382 (compound code), AZ 60541 (compound code), azinphos-ethyl (44), azinphos-methyl (45), azobenzene (IUPAC name) (888), azocyclotin (46), azothoate (889), benomyl (62), benoxafos (alternative name) [CCN], benzoximate (71), benzyl benzoate (IUPAC name) [CCN], bifenazate (74), bifenthrin (76), binapacryl (907), brofenvalerate (alternative name), bromocyclen (918), bromophos (920), bromophos-ethyl (921), bromopropylate (94), buprofezin (99), butocarboxim (103), butoxycarboxim (104), butylpyridaben (alternative name), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbophenothion (947), CGA 50'439 (development code) (125), chinomethionat (126), chlorbenside (959), chlordimeform (964), chlordimeform hydrochloride (964), chlorfenapyr (130), chlorfenethol (968), chlorfenson (970), chlorfensulphide (971), chlorfenvinphos (131), chlorobenzilate (975), chloromebuform (977), chloromethiuron (978), chloropropylate (983), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), cinerin I (696), cinerin II (696), cinerins (696), clofentezine (158), closantel (alternative name) [CCN], coumaphos (174), crotamiton (alternative name) [CCN], crotoxyphos (1010), cufraneb (1013), cyanthoate (1020), cyhalothrin (196), cyhexatin (199), cypermethrin (201), DCPM (1032), DDT (219), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthion (226), dialifos (1042), diazinon (227), dichlofluanid (230), dichlorvos (236), dicliphos (alternative name), dicofol (242), dicrotophos (243), dienochlor (1071), dimefox (1081),

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dimethoate (262), dinactin (alternative name) (653), dinex (1089), dinex-diclexine (1089), dinobuton (269), dinocap (270), dinocap-4 [CCN], dinocap-6 [CCN], dinocton (1090), dinopenton (1092), dinosulfon (1097), dinoterbon (1098), dioxathion (1102), diphenyl sulfone (IUPAC name) (1103), disulfiram (alternative name) [CCN], disulfoton (278), DNOC (282), dofenapyn (1113), doramectin (alternative name) [CCN], endosulfan (294), endothion (1121), EPN (297), eprinomectin (alternative name) [CCN], ethion (309), ethoate-methyl (1134), etoxazole (320), etrimfos (1142), fenazaflor (1147), fenazaquin (328), fenbutatin oxide (330), fenothiocarb (337), fenpropathrin (342), fenpyrad (alternative name), fenpyroximate (345), fenson (1157), fentrifanil (1161), fenvalerate (349), fipronil (354), fluacrypyrim (360), fluazuron (1166), flubenzimine (1167), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenoxuron (370), flumethrin (372), fluorbenside (1174), fluvalinate (1184), FMC 1137 (development code) (1185), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), gamma-HCH (430), glyodin (1205), halfenprox (424), heptenophos (432), hexadecyl cyclopropanecarboxylate (IUPAC/Chemical Abstracts name) (1216), hexythiazox (441), iodomethane (IUPAC name) (542), isocarbophos (alternative name) (473), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), lindane (430), lufenuron (490), malathion (492), malonoben (1254), mecarbam (502), mephosfolan (1261), mesulfen (alternative name) [CCN], methacrifos (1266), methamidophos (527), methidathion (529), methiocarb (530), methomyl (531), methyl bromide (537), metolcarb (550), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naled (567), NC-184 (compound code), nifluridide (1309), nikkomycins (alternative name) [CCN], nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), omethoate (594), oxamyl (602), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), parathion (615), permethrin (626), petroleum oils (alternative name) (628), phenkapton (1330), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosphamidon (639), phoxim (642), pirimiphos-methyl (652), polychloroterpenes (traditional name) (1347), polynactins (alternative name) (653), proclonol (1350), profenofos (662), promacyl (1354), propargite (671), propetamphos (673), propoxur (678), prothidathion (1360), prothoate (1362), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), quinalphos (711), quintiofos (1381), R-1492 (development code) (1382), RA-17 (development code) (1383),

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rotenone (722), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), sophamide (1402), spirodiclofen (738), spiromesifen (739), SSI-121 (development code) (1404), sulfiram (alternative name) [CCN], sulfluramid (750), sulfotep (753), sulfur (754), SZI-121 (development code) (757), tau-fluvalinate (398), tebufenpyrad (763), TEPP (1417), terbam (alternative name), tetrachlorvinphos (777), tetradifon (786), tetranactin (alternative name) (653), tetrasul (1425), thiafenox (alternative name), thiocarboxime (1431), thiofanox (800), thiometon (801), thioquinox (1436), thuringiensin (alternative name) [CCN], triamiphos (1441), triarathene (1443), triazophos (820), triazuron (alternative name), trichlorfon (824), trifenofos (1455), trinactin (alternative name) (653), vamidothion (847), vanilprole [CCN] and YI-5302 (compound code),

an algicide selected from the group of substances consisting of bethoxazin [CCN], copper dioctanoate (IUPAC name) (170), copper sulfate (172), cybutryne [CCN], dichlone (1052), dichlorophen (232), endothal (295), fentin (347), hydrated lime [CCN], nabam (566), quinoclamine (714), quinonamid (1379), simazine (730), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

an anthelmintic selected from the group of substances consisting of abamectin (1), crufomate (1011), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ivermectin (alternative name) [CCN], milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], piperazine [CCN], selamectin (alternative name) [CCN], spinosad (737) and thiophanate (1435),

an avicide selected from the group of substances consisting of chloralose (127), endrin (1122), fenthion (346), pyridin-4-amine (IUPAC name) (23) and strychnine (745),

a bactericide selected from the group of substances consisting of 1-hydroxy-1*H*-pyridine-2-thione (IUPAC name) (1222), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), 8-hydroxyquinoline sulfate (446), bronopol (97), copper dioctanoate (IUPAC name) (170), copper hydroxide (IUPAC name) (169), cresol [CCN], dichlorophen (232), dipyrithione (1105), dodicin (1112), fenaminosulf (1144), formaldehyde (404), hydrargaphen (alternative name) [CCN], kasugamycin (483), kasugamycin hydrochloride hydrate (483), nickel bis(dimethyldithiocarbamate) (IUPAC name) (1308), nitrapyrin (580), octhilinone (590), oxolinic acid (606), oxytetracycline (611), potassium hydroxyquinoline sulfate (446), probenazole (658), streptomycin (744), streptomycin sesquisulfate (744), tecloftalam (766) and thiomersal (alternative name) [CCN],

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a biological agent selected from the group of substances consisting of *Adoxophyes orana* GV (alternative name) (12), *Agrobacterium radiobacter* (alternative name) (13), *Amblyseius* spp. (alternative name) (19), *Anagrapha falcifera* NPV (alternative name) (28), *Anagrus atomus* (alternative name) (29), *Aphelinus abdominalis* (alternative name) (33), *Aphidius colemani* (alternative name) (34), *Aphidoletes aphidimyza* (alternative name) (35), *Autographa californica* NPV (alternative name) (38), *Bacillus firmus* (alternative name) (48), *Bacillus sphaericus* Neide (scientific name) (49), *Bacillus thuringiensis* Berliner (scientific name) (51), *Bacillus thuringiensis* subsp. *aizawai* (scientific name) (51), *Bacillus thuringiensis* subsp. *israelensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *japonensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *kurstaki* (scientific name) (51), *Bacillus thuringiensis* subsp. *tenebrionis* (scientific name) (51), *Beauveria bassiana* (alternative name) (53), *Beauveria brongniartii* (alternative name) (54), *Chrysoperla carnea* (alternative name) (151), *Cryptolaemus montrouzieri* (alternative name) (178), *Cydia pomonella* GV (alternative name) (191), *Dacnusa sibirica* (alternative name) (212), *Diglyphus isaea* (alternative name) (254), *Encarsia formosa* (scientific name) (293), *Eretmocerus eremicus* (alternative name) (300), *Helicoverpa zea* NPV (alternative name) (431), *Heterorhabditis bacteriophora* and *H. megidis* (alternative name) (433), *Hippodamia convergens* (alternative name) (442), *Leptomastix dactylopii* (alternative name) (488), *Macrolophus caliginosus* (alternative name) (491), *Mamestra brassicae* NPV (alternative name) (494), *Metaphycus helvolus* (alternative name) (522), *Metarhizium anisopliae* var. *acridum* (scientific name) (523), *Metarhizium anisopliae* var. *anisopliae* (scientific name) (523), *Neodiprion sertifer* NPV and *N. lecontei* NPV (alternative name) (575), *Orius* spp. (alternative name) (596), *Paecilomyces fumosoroseus* (alternative name) (613), *Phytoseiulus persimilis* (alternative name) (644), *Spodoptera exigua* multicapsid nuclear polyhedrosis virus (scientific name) (741), *Steinernema bibionis* (alternative name) (742), *Steinernema carpocapsae* (alternative name) (742), *Steinernema feltiae* (alternative name) (742), *Steinernema glaseri* (alternative name) (742), *Steinernema riobrave* (alternative name) (742), *Steinernema riobravus* (alternative name) (742), *Steinernema scapterisci* (alternative name) (742), *Steinernema* spp. (alternative name) (742), *Trichogramma* spp. (alternative name) (826), *Typhlodromus occidentalis* (alternative name) (844) and *Verticillium lecanii* (alternative name) (848),

a soil sterilant selected from the group of substances consisting of iodomethane (IUPAC name) (542) and methyl bromide (537),

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a chemosterilant selected from the group of substances consisting of apholate [CCN], bisazir (alternative name) [CCN], busulfan (alternative name) [CCN], diflubenzuron (250), dimatif (alternative name) [CCN], hemel [CCN], hempa [CCN], metepa [CCN], methiotepa [CCN], methyl apholate [CCN], morzid [CCN], penfluron (alternative name) [CCN], tepa [CCN], thiohempa (alternative name) [CCN], thiotepa (alternative name) [CCN], tretamine (alternative name) [CCN] and uredepa (alternative name) [CCN],

an insect pheromone selected from the group of substances consisting of (*E*)-dec-5-en-1-yl acetate with (*E*)-dec-5-en-1-ol (IUPAC name) (222), (*E*)-tridec-4-en-1-yl acetate (IUPAC name) (829), (*E*)-6-methylhept-2-en-4-ol (IUPAC name) (541), (*E,Z*)-tetradeca-4,10-dien-1-yl acetate (IUPAC name) (779), (*Z*)-dodec-7-en-1-yl acetate (IUPAC name) (285), (*Z*)-hexadec-11-enal (IUPAC name) (436), (*Z*)-hexadec-11-en-1-yl acetate (IUPAC name) (437), (*Z*)-hexadec-13-en-11-yn-1-yl acetate (IUPAC name) (438), (*Z*)-icos-13-en-10-one (IUPAC name) (448), (*Z*)-tetradec-7-en-1-al (IUPAC name) (782), (*Z*)-tetradec-9-en-1-ol (IUPAC name) (783), (*Z*)-tetradec-9-en-1-yl acetate (IUPAC name) (784), (*7E,9Z*)-dodeca-7,9-dien-1-yl acetate (IUPAC name) (283), (*9Z,11E*)-tetradeca-9,11-dien-1-yl acetate (IUPAC name) (780), (*9Z,12E*)-tetradeca-9,12-dien-1-yl acetate (IUPAC name) (781), 14-methyloctadec-1-ene (IUPAC name) (545), 4-methylnonan-5-ol with 4-methylnonan-5-one (IUPAC name) (544), alpha-multistriatin (alternative name) [CCN], brevicomin (alternative name) [CCN], codlelure (alternative name) [CCN], codlemone (alternative name) (167), cuelure (alternative name) (179), disparlure (277), dodec-8-en-1-yl acetate (IUPAC name) (286), dodec-9-en-1-yl acetate (IUPAC name) (287), dodeca-8,10-dien-1-yl acetate (IUPAC name) (284), dominicalure (alternative name) [CCN], ethyl 4-methyloctanoate (IUPAC name) (317), eugenol (alternative name) [CCN], frontalinal (alternative name) [CCN], gossyplure (alternative name) (420), grandlure (421), grandlure I (alternative name) (421), grandlure II (alternative name) (421), grandlure III (alternative name) (421), grandlure IV (alternative name) (421), hexalure [CCN], ipsdienol (alternative name) [CCN], ipsenol (alternative name) [CCN], japonilure (alternative name) (481), lineatin (alternative name) [CCN], litlure (alternative name) [CCN], looplure (alternative name) [CCN], medlure [CCN], megatomoic acid (alternative name) [CCN], methyl eugenol (alternative name) (540), muscalure (563), octadeca-2,13-dien-1-yl acetate (IUPAC name) (588), octadeca-3,13-dien-1-yl acetate (IUPAC name) (589), orfralure (alternative name) [CCN], oryctalure (alternative name) (317), ostramone (alternative name) [CCN], siglure [CCN], sordidin (alternative name) (736), sulcatol (alternative name) [CCN], tetradec-11-en-1-yl acetate (IUPAC name) (785), trimedlure (839), trimedlure A (alternative name) (839), trimedlure B₁ (alternative name)

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(839), trimedlure B₂ (alternative name) (839), trimedlure C (alternative name) (839) and trunc-call (alternative name) [CCN],

an insect repellent selected from the group of substances consisting of 2-(octylthio)-ethanol (IUPAC name) (591), butopyronoxyl (933), butoxy(polypropylene glycol) (936), dibutyl adipate (IUPAC name) (1046), dibutyl phthalate (1047), dibutyl succinate (IUPAC name) (1048), diethyltoluamide [CCN], dimethyl carbate [CCN], dimethyl phthalate [CCN], ethyl hexanediol (1137), hexamide [CCN], methoquin-butyl (1276), methylneodecanamide [CCN], oxamate [CCN] and picaridin [CCN],

an insecticide selected from the group of substances consisting of 1,1-dichloro-1-nitroethane (IUPAC/Chemical Abstracts name) (1058), 1,1-dichloro-2,2-bis(4-ethylphenyl)-ethane (IUPAC name) (1056), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1-bromo-2-chloroethane (IUPAC/Chemical Abstracts name) (916), 2,2,2-trichloro-1-(3,4-dichlorophenyl)ethyl acetate (IUPAC name) (1451), 2,2-dichlorovinyl 2-ethylsulfinyethyl methyl phosphate (IUPAC name) (1066), 2-(1,3-dithiolan-2-yl)phenyl dimethylcarbamate (IUPAC/Chemical Abstracts name) (1109), 2-(2-butoxyethoxy)ethyl thiocyanate (IUPAC/Chemical Abstracts name) (935), 2-(4,5-dimethyl-1,3-dioxolan-2-yl)phenyl methylcarbamate (IUPAC/Chemical Abstracts name) (1084), 2-(4-chloro-3,5-xylyloxy)ethanol (IUPAC name) (986), 2-chlorovinyl diethyl phosphate (IUPAC name) (984), 2-imidazolidone (IUPAC name) (1225), 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 2-methyl(prop-2-ynyl)aminophenyl methylcarbamate (IUPAC name) (1284), 2-thiocyanatoethyl laurate (IUPAC name) (1433), 3-bromo-1-chloroprop-1-ene (IUPAC name) (917), 3-methyl-1-phenylpyrazol-5-yl dimethylcarbamate (IUPAC name) (1283), 4-methyl(prop-2-ynyl)amino-3,5-xylyl methylcarbamate (IUPAC name) (1285), 5,5-dimethyl-3-oxocyclohex-1-enyl dimethylcarbamate (IUPAC name) (1085), abamectin (1), acephate (2), acetamiprid (4), acethion (alternative name) [CCN], acetoprole [CCN], acrinathrin (9), acrylonitrile (IUPAC name) (861), alanycarb (15), aldicarb (16), aldoxycarb (863), aldrin (864), allethrin (17), allosamidin (alternative name) [CCN], allyxycarb (866), alpha-cypermethrin (202), alpha-ecdysone (alternative name) [CCN], aluminium phosphide (640), amidithion (870), amidothioate (872), aminocarb (873), amiton (875), amiton hydrogen oxalate (875), amitraz (24), anabasine (877), athidathion (883), AVI 382 (compound code), AZ 60541 (compound code), azadirachtin (alternative name) (41), azamethiphos (42), azinphos-ethyl (44), azinphos-methyl (45), azothoate (889), *Bacillus thuringiensis* delta endotoxins (alternative name) (52), barium hexafluorosilicate (alternative name) [CCN], barium polysulfide (IUPAC/Chemical Abstracts name) (892), barthrin [CCN],

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BAS 320 I (compound code), Bayer 22/190 (development code) (893), Bayer 22408 (development code) (894), bendiocarb (58), benfuracarb (60), bensultap (66), beta-cyfluthrin (194), beta-cypermethrin (203), bifenthrin (76), bioallethrin (78), bioallethrin S-cyclopentenyl isomer (alternative name) (79), bioethanomethrin [CCN], biopermethrin (908), bioresmethrin (80), bis(2-chloroethyl) ether (IUPAC name) (909), bistrifluron (83), borax (86), brofenvalerate (alternative name), bromfenvinfos (914), bromocyclen (918), bromo-DDT (alternative name) [CCN], bromophos (920), bromophos-ethyl (921), bufencarb (924), buprofezin (99), butacarb (926), butathiofos (927), butocarboxim (103), butonate (932), butoxycarboxim (104), butylpyridaben (alternative name), cadusafos (109), calcium arsenate [CCN], calcium cyanide (444), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbon disulfide (IUPAC/Chemical Abstracts name) (945), carbon tetrachloride (IUPAC name) (946), carbophenothion (947), carbosulfan (119), cartap (123), cartap hydrochloride (123), cevadine (alternative name) (725), chlorbicyclen (960), chlordane (128), chlordecone (963), chlordimeform (964), chlordimeform hydrochloride (964), chlorethoxyfos (129), chlorfenapyr (130), chlorfenvinphos (131), chlorfluazuron (132), chlormephos (136), chloroform [CCN], chloropicrin (141), chlorphoxim (989), chlorprazophos (990), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), chromafenozide (150), cinerin I (696), cinerin II (696), cinerins (696), cis-resmethrin (alternative name), cismethrin (80), clocythrin (alternative name), cloethocarb (999), closantel (alternative name) [CCN], clothianidin (165), copper acetoarsenite [CCN], copper arsenate [CCN], copper oleate [CCN], coumaphos (174), coumithoate (1006), crotamiton (alternative name) [CCN], crotoxyphos (1010), crufomate (1011), cryolite (alternative name) (177), CS 708 (development code) (1012), cyanofenphos (1019), cyanophos (184), cyanthoate (1020), cyclethrin [CCN], cycloprothrin (188), cyfluthrin (193), cyhalothrin (196), cypermethrin (201), cyphenothrin (206), cyromazine (209), cythioate (alternative name) [CCN], *d*-limonene (alternative name) [CCN], *d*-tetramethrin (alternative name) (788), DAEP (1031), dazomet (216), DDT (219), decarbofuran (1034), deltamethrin (223), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthiuron (226), dialifos (1042), diamidafos (1044), diazinon (227), dicapthon (1050), dichlofenthion (1051), dichlorvos (236), dicliphos (alternative name), dicresyl (alternative name) [CCN], dicrotophos (243), dicyclanil (244), dieldrin (1070), diethyl 5-methylpyrazol-3-yl phosphate (IUPAC name) (1076), diflubenzuron (250), dilor (alternative name) [CCN], dimefluthrin [CCN], dimefox

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(1081), dimetan (1085), dimethoate (262), dimethrin (1083), dimethylvinphos (265), dimetilan (1086), dinex (1089), dinex-diclexine (1089), dinoprop (1093), dinosam (1094), dinoseb (1095), dinotefuran (271), diofenolan (1099), dioxabenzofos (1100), dioxacarb (1101), dioxathion (1102), disulfoton (278), dithicrofos (1108), DNOC (282), doramectin (alternative name) [CCN], DSP (1115), ecdysterone (alternative name) [CCN], EI 1642 (development code) (1118), emamectin (291), emamectin benzoate (291), EMPC (1120), empenthrin (292), endosulfan (294), endothion (1121), endrin (1122), EPBP (1123), EPN (297), epofenonane (1124), eprinomectin (alternative name) [CCN], esfenvalerate (302), etaphos (alternative name) [CCN], ethiofencarb (308), ethion (309), ethiprole (310), ethoate-methyl (1134), ethoprophos (312), ethyl formate (IUPAC name) [CCN], ethyl-DDD (alternative name) (1056), ethylene dibromide (316), ethylene dichloride (chemical name) (1136), ethylene oxide [CCN], etofenprox (319), etrimfos (1142), EXD (1143), famphur (323), fenamiphos (326), fenazaflor (1147), fenchlorphos (1148), fenethacarb (1149), fenfluthrin (1150), fenitrothion (335), fenobucarb (336), fenoxacrim (1153), fenoxycarb (340), fenpirithrin (1155), fenpropathrin (342), fenpyrad (alternative name), fensulfothion (1158), fenthion (346), fenthion-ethyl [CCN], fenvalerate (349), fipronil (354), flonicamid (358), flucofuron (1168), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenerim [CCN], flufenoxuron (370), flufenprox (1171), flumethrin (372), fluvalinate (1184), FMC 1137 (development code) (1185), fonofos (1191), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), fosmethilan (1194), fospirate (1195), fosthiazate (408), fosthietan (1196), furathiocarb (412), furethrin (1200), gamma-cyhalothrin (197), gamma-HCH (430), guazatine (422), guazatine acetates (422), GY-81 (development code) (423), halfenprox (424), halofenozide (425), HCH (430), HEOD (1070), heptachlor (1211), heptenophos (432), heterophos [CCN], hexaflumuron (439), HHDN (864), hydramethylnon (443), hydrogen cyanide (444), hydroprene (445), hyquincarb (1223), imidacloprid (458), imiprothrin (460), indoxacarb (465), iodomethane (IUPAC name) (542), IPSP (1229), isazofos (1231), isobenzan (1232), isocarbophos (alternative name) (473), isodrin (1235), isofenphos (1236), isolane (1237), isoprocab (472), isopropyl O-(methoxy-aminothiophosphoryl)salicylate (IUPAC name) (473), isoprothiolane (474), isothioate (1244), isoxathion (480), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), juvenile hormone I (alternative name) [CCN], juvenile hormone II (alternative name) [CCN], juvenile hormone III (alternative name) [CCN], kelevan (1249), kinoprene (484), lambda-cyhalothrin (198), lead arsenate [CCN], leptophos (1250), lindane (430), lirimfos (1251), lufenuron (490), lythidathion (1253), *m*-cumenyl methylcarbamate

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(IUPAC name) (1014), magnesium phosphide (IUPAC name) (640), malathion (492), malonoben (1254), mazidox (1255), mecarbam (502), mecarphon (1258), menazon (1260), mephosfolan (1261), mercurous chloride (513), mesulfenfos (1263), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methacrifos (1266), methamidophos (527), methanesulfonyl fluoride (IUPAC/Chemical Abstracts name) (1268), methidathion (529), methiocarb (530), methocrotophos (1273), methomyl (531), methoprene (532), methoquin-butyl (1276), methothrin (alternative name) (533), methoxychlor (534), methoxyfenozide (535), methyl bromide (537), methyl isothiocyanate (543), methylchloroform (alternative name) [CCN], methylene chloride [CCN], metofluthrin [CCN], metolcarb (550), metoxadiazone (1288), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), mirex (1294), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naftalofos (alternative name) [CCN], naled (567), naphthalene (IUPAC/Chemical Abstracts name) (1303), NC-170 (development code) (1306), NC-184 (compound code), nicotine (578), nicotine sulfate (578), nifluridide (1309), nitenpyram (579), nithiazine (1311), nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), nornicotine (traditional name) (1319), novaluron (585), noviflumuron (586), O-2,5-dichloro-4-iodophenyl O-ethyl ethylphosphonothioate (IUPAC name) (1057), O,O-diethyl O-4-methyl-2-oxo-2*H*-chromen-7-yl phosphorothioate (IUPAC name) (1074), O,O-diethyl O-6-methyl-2-propylpyrimidin-4-yl phosphorothioate (IUPAC name) (1075), O,O,O',O'-tetrapropyl dithiopyrophosphate (IUPAC name) (1424), oleic acid (IUPAC name) (593), omethoate (594), oxamyl (602), oxydemeton-methyl (609), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), para-dichlorobenzene [CCN], parathion (615), parathion-methyl (616), penfluron (alternative name) [CCN], pentachlorophenol (623), pentachlorophenyl laurate (IUPAC name) (623), permethrin (626), petroleum oils (alternative name) (628), PH 60-38 (development code) (1328), phenkapton (1330), phenothrin (630), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosnichlor (1339), phosphamidon (639), phosphine (IUPAC name) (640), phoxim (642), phoxim-methyl (1340), pirimetaphos (1344), pirimicarb (651), pirimiphos-ethyl (1345), pirimiphos-methyl (652), polychlorodicyclopentadiene isomers (IUPAC name) (1346), polychloroterpenes (traditional name) (1347), potassium arsenite [CCN], potassium thiocyanate [CCN], prallethrin (655), precocene I (alternative name) [CCN], precocene II (alternative name) [CCN], precocene III (alternative name) [CCN], primidophos (1349), profenofos (662), profluthrin [CCN], promacyl (1354), promecarb (1355), propaphos (1356),

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propetamphos (673), propoxur (678), prothidathion (1360), prothiofos (686), prothoate (1362), protrifenbute [CCN], pymetrozine (688), pyraclofos (689), pyrazophos (693), pyresmethrin (1367), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridalyl (700), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), pyriproxyfen (708), quassia (alternative name) [CCN], quinalphos (711), quinalphos-methyl (1376), quinothion (1380), quintiofos (1381), R-1492 (development code) (1382), rafoxanide (alternative name) [CCN], resmethrin (719), rotenone (722), RU 15525 (development code) (723), RU 25475 (development code) (1386), ryania (alternative name) (1387), ryanodine (traditional name) (1387), sabadilla (alternative name) (725), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), silafluofen (728), SN 72129 (development code) (1397), sodium arsenite [CCN], sodium cyanide (444), sodium fluoride (IUPAC/Chemical Abstracts name) (1399), sodium hexafluorosilicate (1400), sodium pentachlorophenoxide (623), sodium selenate (IUPAC name) (1401), sodium thiocyanate [CCN], sophamide (1402), spinosad (737), spiromesifen (739), sulcofuron (746), sulcofuron-sodium (746), sulfluramid (750), sulfotep (753), sulfuryl fluoride (756), sulprofos (1408), tar oils (alternative name) (758), tau-fluvalinate (398), tazimcarb (1412), TDE (1414), tebufenozide (762), tebufenpyrad (763), tebupirimfos (764), teflubenzuron (768), tefluthrin (769), temephos (770), TEPP (1417), terallethrin (1418), terbam (alternative name), terbufos (773), tetrachloroethane [CCN], tetrachlorvinphos (777), tetramethrin (787), theta-cypermethrin (204), thiacloprid (791), thiafenox (alternative name), thiamethoxam (792), thicrofos (1428), thiocarboxime (1431), thiocyclam (798), thiocyclam hydrogen oxalate (798), thiodicarb (799), thiofanox (800), thiometon (801), thionazin (1434), thiosultap (803), thiosultap-sodium (803), thuringiensin (alternative name) [CCN], tolfenpyrad (809), tralomethrin (812), transfluthrin (813), transpermethrin (1440), triamiphos (1441), triazamate (818), triazophos (820), triazuron (alternative name), trichlorfon (824), trichlormetaphos-3 (alternative name) [CCN], trichloronat (1452), trifenofos (1455), triflumuron (835), trimethacarb (840), triprene (1459), vamidothion (847), vaniliprole [CCN], veratridine (alternative name) (725), veratrine (alternative name) (725), XMC (853), xylylcarb (854), YI-5302 (compound code), zeta-cypermethrin (205), zetamethrin (alternative name), zinc phosphide (640), zolaprofos (1469) and ZXI 8901 (development code) (858),

a molluscicide selected from the group of substances consisting of bis(tributyltin) oxide (IUPAC name) (913), bromoacetamide [CCN], calcium arsenate [CCN], cloethocarb (999), copper acetoarsenite [CCN], copper sulfate (172), fentin (347), ferric phosphate (IUPAC name) (352), metaldehyde (518), methiocarb (530), niclosamide (576), niclosamide-olamine

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(576), pentachlorophenol (623), sodium pentachlorophenoxide (623), tazimcarb (1412), thiodicarb (799), tributyltin oxide (913), trifenmorph (1454), trimethacarb (840), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

a nematicide selected from the group of substances consisting of 1,2-dibromo-3-chloropropane (IUPAC/Chemical Abstracts name) (1045), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1,3-dichloropropene (233), 3,4-dichlorotetrahydrothiophene 1,1-dioxide (IUPAC/Chemical Abstracts name) (1065), 3-(4-chlorophenyl)-5-methylrhodanine (IUPAC name) (980), 5-methyl-6-thioxo-1,3,5-thiadiazinan-3-ylacetic acid (IUPAC name) (1286), 6-isopentenylaminopurine (alternative name) (210), abamectin (1), acetoprole [CCN], alanycarb (15), aldicarb (16), aldoxycarb (863), AZ 60541 (compound code), benclotiaz [CCN], benomyl (62), butylpyridaben (alternative name), cadusafos (109), carbofuran (118), carbon disulfide (945), carbosulfan (119), chloropicrin (141), chlorpyrifos (145), cloethocarb (999), cytokinins (alternative name) (210), dazomet (216), DBCP (1045), DCIP (218), diamidafos (1044), dichlofenthion (1051), dicliphos (alternative name), dimethoate (262), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ethoprophos (312), ethylene dibromide (316), fenamiphos (326), fenpyrad (alternative name), fensulfothion (1158), fosthiazate (408), fosthietan (1196), furfural (alternative name) [CCN], GY-81 (development code) (423), heterophos [CCN], iodomethane (IUPAC name) (542), isamidofos (1230), isazofos (1231), ivermectin (alternative name) [CCN], kinetin (alternative name) (210), mecarphon (1258), metam (519), metam-potassium (alternative name) (519), metam-sodium (519), methyl bromide (537), methyl isothiocyanate (543), milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], *Myrothecium verrucaria* composition (alternative name) (565), NC-184 (compound code), oxamyl (602), phorate (636), phosphamidon (639), phosphocarb [CCN], sebufos (alternative name), selamectin (alternative name) [CCN], spinosad (737), terbam (alternative name), terbufos (773), tetrachlorothiophene (IUPAC/Chemical Abstracts name) (1422), thiafenox (alternative name), thionazin (1434), triazophos (820), triazuron (alternative name), xlenols [CCN], YI-5302 (compound code) and zeatin (alternative name) (210),

a nitrification inhibitor selected from the group of substances consisting of potassium ethylxanthate [CCN] and nitrapyrin (580),

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a plant activator selected from the group of substances consisting of acibenzolar (6), acibenzolar-S-methyl (6), probenazole (658) and *Reynoutria sachalinensis* extract (alternative name) (720),

a rodenticide selected from the group of substances consisting of 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), alpha-chlorohydrin [CCN], aluminium phosphide (640), antu (880), arsenous oxide (882), barium carbonate (891), bisthiosemi (912), brodifacoum (89), bromadiolone (91), bromethalin (92), calcium cyanide (444), chloralose (127), chlorophacinone (140), cholecalciferol (alternative name) (850), coumachlor (1004), coumafuryl (1005), coumatetralyl (175), crimidine (1009), difenacoum (246), difethialone (249), diphacinone (273), ergocalciferol (301), floccoumafen (357), fluoroacetamide (379), flupropadine (1183), flupropadine hydrochloride (1183), gamma-HCH (430), HCH (430), hydrogen cyanide (444), iodomethane (IUPAC name) (542), lindane (430), magnesium phosphide (IUPAC name) (640), methyl bromide (537), norbormide (1318), phosacetim (1336), phosphine (IUPAC name) (640), phosphorus [CCN], pindone (1341), potassium arsenite [CCN], pyrinuron (1371), scilliroside (1390), sodium arsenite [CCN], sodium cyanide (444), sodium fluoroacetate (735), strychnine (745), thallium sulfate [CCN], warfarin (851) and zinc phosphide (640),

a synergist selected from the group of substances consisting of 2-(2-butoxyethoxy)-ethyl piperonylate (IUPAC name) (934), 5-(1,3-benzodioxol-5-yl)-3-hexylcyclohex-2-enone (IUPAC name) (903), farnesol with nerolidol (alternative name) (324), MB-599 (development code) (498), MGK 264 (development code) (296), piperonyl butoxide (649), piprotal (1343), propyl isomer (1358), S421 (development code) (724), sesamex (1393), sesasmolin (1394) and sulfoxide (1406),

an animal repellent selected from the group of substances consisting of anthraquinone (32), chloralose (127), copper naphthenate [CCN], copper oxychloride (171), diazinon (227), dicyclopentadiene (chemical name) (1069), guazatine (422), guazatine acetates (422), methiocarb (530), pyridin-4-amine (IUPAC name) (23), thiram (804), trimethacarb (840), zinc naphthenate [CCN] and ziram (856),

a virucide selected from the group of substances consisting of imanin (alternative name) [CCN] and ribavirin (alternative name) [CCN],

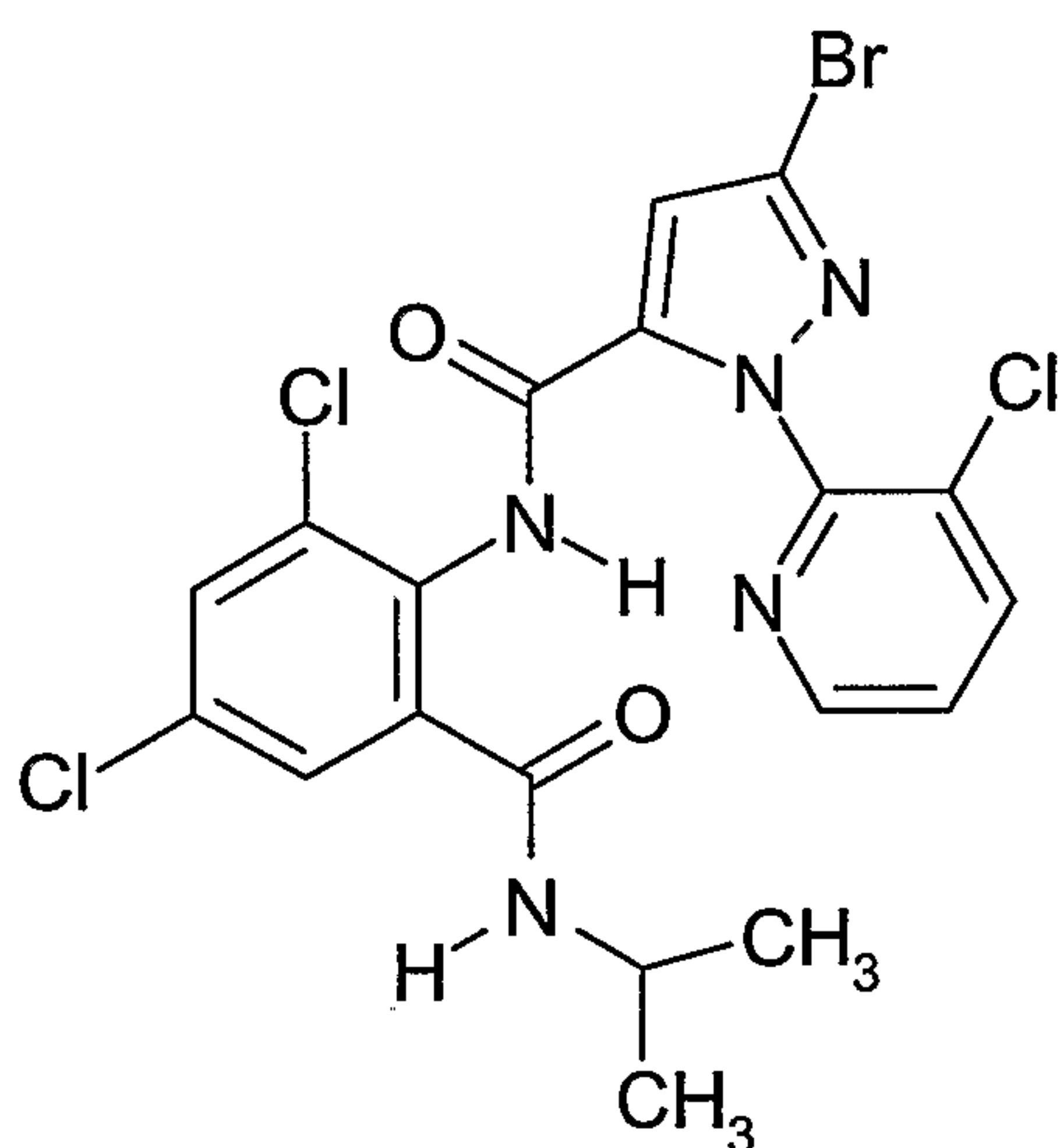
and a wound protectant selected from the group of substances consisting of mercuric oxide (512), octhilinone (590) and thiophanate-methyl (802).

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A very especially preferred embodiment of the subject-matter {1.1.17} of the invention is {1.1.17.2} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-17) and the compound (B) is a compound selected from the group of substances consisting of abamectin (1), cyromazine (209), diafenthiuron (226), diazinon (227), emamectin benzoate (291), fenoxycarb (340), fosthiazate (408), lambda-cyhalothrin (198), lufenuron (490), methidathion (529), profenofos (662), pymetrozine (688), tefluthrin (769) and thiamethoxam (792).

The compound of formula (A-17) is known, for example, from the PCT Application WO-04/067528.

A preferred embodiment of the subject-matter {1.1} of the invention is {1.1.18} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-18)



(A-18)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

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An especially preferred embodiment of the subject-matter {1.1.18} of the invention is {1.1.18.1} a pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-18) and the compound (B) is a compound selected from the group of substances consisting of

an adjuvant selected from the group of substances consisting of petroleum oils (alternative name) (628),

an acaricide selected from the group of substances consisting of 1,1-bis(4-chlorophenyl)-2-ethoxyethanol (IUPAC name) (910), 2,4-dichlorophenyl benzenesulfonate (IUPAC/Chemical Abstracts name) (1059), 2-fluoro-*N*-methyl-*N*-1-naphthylacetamide (IUPAC name) (1295), 4-chlorophenyl phenyl sulfone (IUPAC name) (981), abamectin (1), acequinocyl (3), acetoprole [CCN], acrinathrin (9), aldicarb (16), aldoxycarb (863), alpha-cypermethrin (202), amidithion (870), amidoflumet [CCN], amidothioate (872), amiton (875), amiton hydrogen oxalate (875), amitraz (24), aramite (881), arsenous oxide (882), AVI 382 (compound code), AZ 60541 (compound code), azinphos-ethyl (44), azinphos-methyl (45), azobenzene (IUPAC name) (888), azocyclotin (46), azothoate (889), benomyl (62), benoxafos (alternative name) [CCN], benzoximate (71), benzyl benzoate (IUPAC name) [CCN], bifenazate (74), bifenthrin (76), binapacryl (907), brofenvalerate (alternative name), bromocyclen (918), bromophos (920), bromophos-ethyl (921), bromopropylate (94), buprofezin (99), butocarboxim (103), butoxycarboxim (104), butylpyridaben (alternative name), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbophenothion (947), CGA 50'439 (development code) (125), chinomethionat (126), chlorbenside (959), chlordimeform (964), chlordimeform hydrochloride (964), chlorfenapyr (130), chlorfenethol (968), chlorfenson (970), chlorfensulphide (971), chlorfenvinphos (131), chlorobenzilate (975), chloromebuform (977), chloromethiuron (978), chloropropylate (983), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), cinerin I (696), cinerin II (696), cinerins (696), clofentezine (158), closantel (alternative name) [CCN], coumaphos (174), crotamiton (alternative name) [CCN], crotoxyphos (1010), cufraneb (1013), cyanthoate (1020), cyhalothrin (196), cyhexatin (199), cypermethrin (201), DCPM (1032), DDT (219), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafen-thiuron (226), dialifos (1042), diazinon (227), dichlofluanid (230), dichlorvos (236), dicliphos (alternative name), dicofol (242), dicrotophos (243), dienochlor (1071), dimefox (1081),

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dimethoate (262), dinactin (alternative name) (653), dinex (1089), dinex-diclexine (1089), dinobuton (269), dinocap (270), dinocap-4 [CCN], dinocap-6 [CCN], dinoceton (1090), dinopenton (1092), dinosulfon (1097), dinoterbon (1098), dioxathion (1102), diphenyl sulfone (IUPAC name) (1103), disulfiram (alternative name) [CCN], disulfoton (278), DNOC (282), dofenapyn (1113), doramectin (alternative name) [CCN], endosulfan (294), endothion (1121), EPN (297), eprinomectin (alternative name) [CCN], ethion (309), ethoate-methyl (1134), etoxazole (320), etrimfos (1142), fenazaflor (1147), fenazaquin (328), fenbutatin oxide (330), fenothiocarb (337), fenpropathrin (342), fenpyrad (alternative name), fenpyroximate (345), fenson (1157), fentrifanil (1161), fenvalerate (349), fipronil (354), fluacrypyrim (360), fluazuron (1166), flubenzimine (1167), flucycloxuron (366), flucythrinate (367), fluenetil (1169), flufenoxuron (370), flumethrin (372), fluorbenside (1174), fluvalinate (1184), FMC 1137 (development code) (1185), formetanate (405), formetanate hydrochloride (405), formothion (1192), formparanate (1193), gamma-HCH (430), glyodin (1205), halfenprox (424), heptenophos (432), hexadecyl cyclopropanecarboxylate (IUPAC/Chemical Abstracts name) (1216), hexythiazox (441), iodomethane (IUPAC name) (542), isocarbophos (alternative name) (473), isopropyl O-(methoxyaminothiophosphoryl)salicylate (IUPAC name) (473), ivermectin (alternative name) [CCN], jasmolin I (696), jasmolin II (696), jodfenphos (1248), lindane (430), lufenuron (490), malathion (492), malonoben (1254), mecarbam (502), mephosfolan (1261), mesulfen (alternative name) [CCN], methacrifos (1266), methamidophos (527), methidathion (529), methiocarb (530), methomyl (531), methyl bromide (537), metolcarb (550), mevinphos (556), mexacarbate (1290), milbemectin (557), milbemycin oxime (alternative name) [CCN], mipafox (1293), monocrotophos (561), morphothion (1300), moxidectin (alternative name) [CCN], naled (567), NC-184 (compound code), nifluridide (1309), nikkomycins (alternative name) [CCN], nitrilacarb (1313), nitrilacarb 1:1 zinc chloride complex (1313), NNI-0101 (compound code), NNI-0250 (compound code), omethoate (594), oxamyl (602), oxydeprofos (1324), oxydisulfoton (1325), pp'-DDT (219), parathion (615), permethrin (626), petroleum oils (alternative name) (628), phenkapton (1330), phenthoate (631), phorate (636), phosalone (637), phosfolan (1338), phosmet (638), phosphamidon (639), phoxim (642), pirimiphos-methyl (652), polychloroterpenes (traditional name) (1347), polynactins (alternative name) (653), proclonol (1350), profenofos (662), promacyl (1354), propargite (671), propetamphos (673), propoxur (678), prothidathion (1360), prothoate (1362), pyrethrin I (696), pyrethrin II (696), pyrethrins (696), pyridaben (699), pyridaphenthion (701), pyrimidifen (706), pyrimitate (1370), quinalphos (711), quintiofos (1381), R-1492 (development code) (1382), RA-17 (development code) (1383),

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rotenone (722), schradan (1389), sebufos (alternative name), selamectin (alternative name) [CCN], SI-0009 (compound code), sophamide (1402), spirodiclofen (738), spiromesifen (739), SSI-121 (development code) (1404), sulfiram (alternative name) [CCN], sulfluramid (750), sulfotep (753), sulfur (754), SZI-121 (development code) (757), tau-fluvalinate (398), tebufenpyrad (763), TEPP (1417), terbam (alternative name), tetrachlorvinphos (777), tetradifon (786), tetranactin (alternative name) (653), tetrasul (1425), thiafenox (alternative name), thiocarboxime (1431), thiofanox (800), thiometon (801), thioquinox (1436), thuringiensin (alternative name) [CCN], triamiphos (1441), triarathene (1443), triazophos (820), triazuron (alternative name), trichlorfon (824), trifenofos (1455), trinactin (alternative name) (653), vamidothion (847), vaniliprole [CCN] and YI-5302 (compound code),

an algicide selected from the group of substances consisting of bethoxazin [CCN], copper dioctanoate (IUPAC name) (170), copper sulfate (172), cybutryne [CCN], dichlone (1052), dichlorophen (232), endothal (295), fentin (347), hydrated lime [CCN], nabam (566), quinoclamine (714), quinonamid (1379), simazine (730), triphenyltin acetate (IUPAC name) (347) and triphenyltin hydroxide (IUPAC name) (347),

an anthelmintic selected from the group of substances consisting of abamectin (1), crufomate (1011), doramectin (alternative name) [CCN], emamectin (291), emamectin benzoate (291), eprinomectin (alternative name) [CCN], ivermectin (alternative name) [CCN], milbemycin oxime (alternative name) [CCN], moxidectin (alternative name) [CCN], piperazine [CCN], selamectin (alternative name) [CCN], spinosad (737) and thiophanate (1435),

an avicide selected from the group of substances consisting of chloralose (127), endrin (1122), fenthion (346), pyridin-4-amine (IUPAC name) (23) and strychnine (745),

a bactericide selected from the group of substances consisting of 1-hydroxy-1H-pyridine-2-thione (IUPAC name) (1222), 4-(quinoxalin-2-ylamino)benzenesulfonamide (IUPAC name) (748), 8-hydroxyquinoline sulfate (446), bronopol (97), copper dioctanoate (IUPAC name) (170), copper hydroxide (IUPAC name) (169), cresol [CCN], dichlorophen (232), dipyrithione (1105), dodicin (1112), fenaminosulf (1144), formaldehyde (404), hydrargaphen (alternative name) [CCN], kasugamycin (483), kasugamycin hydrochloride hydrate (483), nickel bis(dimethyldithiocarbamate) (IUPAC name) (1308), nitrapyrin (580), octhilinone (590), oxolinic acid (606), oxytetracycline (611), potassium hydroxyquinoline sulfate (446), probenazole (658), streptomycin (744), streptomycin sesquisulfate (744), tecloftalam (766) and thiomersal (alternative name) [CCN],

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a biological agent selected from the group of substances consisting of *Adoxophyes orana* GV (alternative name) (12), *Agrobacterium radiobacter* (alternative name) (13), *Amblyseius* spp. (alternative name) (19), *Anagrapha falcifera* NPV (alternative name) (28), *Anagrus atomus* (alternative name) (29), *Aphelinus abdominalis* (alternative name) (33), *Aphidius colemani* (alternative name) (34), *Aphidoletes aphidimyza* (alternative name) (35), *Autographa californica* NPV (alternative name) (38), *Bacillus firmus* (alternative name) (48), *Bacillus sphaericus* Neide (scientific name) (49), *Bacillus thuringiensis* Berliner (scientific name) (51), *Bacillus thuringiensis* subsp. *aizawai* (scientific name) (51), *Bacillus thuringiensis* subsp. *israelensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *japonensis* (scientific name) (51), *Bacillus thuringiensis* subsp. *kurstaki* (scientific name) (51), *Bacillus thuringiensis* subsp. *tenebrionis* (scientific name) (51), *Beauveria bassiana* (alternative name) (53), *Beauveria brongniartii* (alternative name) (54), *Chrysoperla carnea* (alternative name) (151), *Cryptolaemus montrouzieri* (alternative name) (178), *Cydia pomonella* GV (alternative name) (191), *Dacnusa sibirica* (alternative name) (212), *Diglyphus isaea* (alternative name) (254), *Encarsia formosa* (scientific name) (293), *Eretmocerus eremicus* (alternative name) (300), *Helicoverpa zea* NPV (alternative name) (431), *Heterorhabditis bacteriophora* and *H. megidis* (alternative name) (433), *Hippodamia convergens* (alternative name) (442), *Leptomastix dactylopii* (alternative name) (488), *Macrolophus caliginosus* (alternative name) (491), *Mamestra brassicae* NPV (alternative name) (494), *Metaphycus helvolus* (alternative name) (522), *Metarhizium anisopliae* var. *acridum* (scientific name) (523), *Metarhizium anisopliae* var. *anisopliae* (scientific name) (523), *Neodiprion sertifer* NPV and *N. lecontei* NPV (alternative name) (575), *Orius* spp. (alternative name) (596), *Paecilomyces fumosoroseus* (alternative name) (613), *Phytoseiulus persimilis* (alternative name) (644), *Spodoptera exigua* multicapsid nuclear polyhedrosis virus (scientific name) (741), *Steinernema bibionis* (alternative name) (742), *Steinernema carpocapsae* (alternative name) (742), *Steinernema feltiae* (alternative name) (742), *Steinernema glaseri* (alternative name) (742), *Steinernema riobrave* (alternative name) (742), *Steinernema riobravus* (alternative name) (742), *Steinernema scapterisci* (alternative name) (742), *Steinernema* spp. (alternative name) (742), *Trichogramma* spp. (alternative name) (826), *Typhlodromus occidentalis* (alternative name) (844) and *Verticillium lecanii* (alternative name) (848),

a soil sterilant selected from the group of substances consisting of iodomethane (IUPAC name) (542) and methyl bromide (537),

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a chemosterilant selected from the group of substances consisting of apholate [CCN], bisazir (alternative name) [CCN], busulfan (alternative name) [CCN], diflubenzuron (250), dimatif (alternative name) [CCN], hemel [CCN], hempa [CCN], metepa [CCN], methiotepa [CCN], methyl apholate [CCN], morzid [CCN], penfluron (alternative name) [CCN], tepa [CCN], thiohempa (alternative name) [CCN], thiotepa (alternative name) [CCN], tretamine (alternative name) [CCN] and uredepa (alternative name) [CCN],

an insect pheromone selected from the group of substances consisting of (*E*)-dec-5-en-1-yl acetate with (*E*)-dec-5-en-1-ol (IUPAC name) (222), (*E*)-tridec-4-en-1-yl acetate (IUPAC name) (829), (*E*)-6-methylhept-2-en-4-ol (IUPAC name) (541), (*E,Z*)-tetradeca-4,10-dien-1-yl acetate (IUPAC name) (779), (*Z*)-dodec-7-en-1-yl acetate (IUPAC name) (285), (*Z*)-hexadec-11-enal (IUPAC name) (436), (*Z*)-hexadec-11-en-1-yl acetate (IUPAC name) (437), (*Z*)-hexadec-13-en-11-yn-1-yl acetate (IUPAC name) (438), (*Z*)-icos-13-en-10-one (IUPAC name) (448), (*Z*)-tetradec-7-en-1-al (IUPAC name) (782), (*Z*)-tetradec-9-en-1-ol (IUPAC name) (783), (*Z*)-tetradec-9-en-1-yl acetate (IUPAC name) (784), (*7E,9Z*)-dodeca-7,9-dien-1-yl acetate (IUPAC name) (283), (*9Z,11E*)-tetradeca-9,11-dien-1-yl acetate (IUPAC name) (780), (*9Z,12E*)-tetradeca-9,12-dien-1-yl acetate (IUPAC name) (781), 14-methyloctadec-1-ene (IUPAC name) (545), 4-methylnonan-5-ol with 4-methylnonan-5-one (IUPAC name) (544), alpha-multistriatin (alternative name) [CCN], brevicomin (alternative name) [CCN], codlelure (alternative name) [CCN], codlemone (alternative name) (167), cuelure (alternative name) (179), disparlure (277), dodec-8-en-1-yl acetate (IUPAC name) (286), dodec-9-en-1-yl acetate (IUPAC name) (287), dodeca-8,10-dien-1-yl acetate (IUPAC name) (284), dominicalure (alternative name) [CCN], ethyl 4-methyloctanoate (IUPAC name) (317), eugenol (alternative name) [CCN], frontalinal (alternative name) [CCN], gossyplure (alternative name) (420), grandlure (421), grandlure I (alternative name) (421), grandlure II (alternative name) (421), grandlure III (alternative name) (421), grandlure IV (alternative name) (421), hexalure [CCN], ipsdienol (alternative name) [CCN], ipsenol (alternative name) [CCN], japonilure (alternative name) (481), lineatin (alternative name) [CCN], litlure (alternative name) [CCN], looplure (alternative name) [CCN], medlure [CCN], megatomoic acid (alternative name) [CCN], methyl eugenol (alternative name) (540), muscalure (563), octadeca-2,13-dien-1-yl acetate (IUPAC name) (588), octadeca-3,13-dien-1-yl acetate (IUPAC name) (589), orfralure (alternative name) [CCN], oryctalure (alternative name) (317), ostramone (alternative name) [CCN], siglure [CCN], sordidin (alternative name) (736), sulcatol (alternative name) [CCN], tetradec-11-en-1-yl acetate (IUPAC name) (785), trimedlure (839), trimedlure A (alternative name) (839), trimedlure B₁ (alternative name)

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(839), trimedlure B₂ (alternative name) (839), trimedlure C (alternative name) (839) and trunc-call (alternative name) [CCN],

an insect repellent selected from the group of substances consisting of 2-(octylthio)-ethanol (IUPAC name) (591), butopyronoxyl (933), butoxy(polypropylene glycol) (936), dibutyl adipate (IUPAC name) (1046), dibutyl phthalate (1047), dibutyl succinate (IUPAC name) (1048), diethyltoluamide [CCN], dimethyl carbate [CCN], dimethyl phthalate [CCN], ethyl hexanediol (1137), hexamide [CCN], methoquin-butyl (1276), methylneodecanamide [CCN], oxamate [CCN] and picaridin [CCN],

an insecticide selected from the group of substances consisting of 1,1-dichloro-1-nitroethane (IUPAC/Chemical Abstracts name) (1058), 1,1-dichloro-2,2-bis(4-ethylphenyl)-ethane (IUPAC name) (1056), 1,2-dichloropropane (IUPAC/Chemical Abstracts name) (1062), 1,2-dichloropropane with 1,3-dichloropropene (IUPAC name) (1063), 1-bromo-2-chloroethane (IUPAC/Chemical Abstracts name) (916), 2,2,2-trichloro-1-(3,4-dichlorophenyl)ethyl acetate (IUPAC name) (1451), 2,2-dichlorovinyl 2-ethylsulfinylethyl methyl phosphate (IUPAC name) (1066), 2-(1,3-dithiolan-2-yl)phenyl dimethylcarbamate (IUPAC/Chemical Abstracts name) (1109), 2-(2-butoxyethoxy)ethyl thiocyanate (IUPAC/Chemical Abstracts name) (935), 2-(4,5-dimethyl-1,3-dioxolan-2-yl)phenyl methylcarbamate (IUPAC/Chemical Abstracts name) (1084), 2-(4-chloro-3,5-xylyloxy)ethanol (IUPAC name) (986), 2-chlorovinyl diethyl phosphate (IUPAC name) (984), 2-imidazolidone (IUPAC name) (1225), 2-isovalerylindan-1,3-dione (IUPAC name) (1246), 2-methyl(prop-2-ynyl)aminophenyl methylcarbamate (IUPAC name) (1284), 2-thiocyanatoethyl laurate (IUPAC name) (1433), 3-bromo-1-chloroprop-1-ene (IUPAC name) (917), 3-methyl-1-phenylpyrazol-5-yl dimethylcarbamate (IUPAC name) (1283), 4-methyl(prop-2-ynyl)amino-3,5-xylyl methylcarbamate (IUPAC name) (1285), 5,5-dimethyl-3-oxocyclohex-1-enyl dimethylcarbamate (IUPAC name) (1085), abamectin (1), acephate (2), acetamiprid (4), acethion (alternative name) [CCN], acetoprole [CCN], acrinathrin (9), acrylonitrile (IUPAC name) (861), alanycarb (15), aldicarb (16), aldoxycarb (863), aldrin (864), allethrin (17), allosamidin (alternative name) [CCN], allyxycarb (866), alpha-cypermethrin (202), alpha-ecdysone (alternative name) [CCN], aluminium phosphide (640), amidithion (870), amidothioate (872), aminocarb (873), amiton (875), amiton hydrogen oxalate (875), amitraz (24), anabasine (877), athidathion (883), AVI 382 (compound code), AZ 60541 (compound code), azadirachtin (alternative name) (41), azamethiphos (42), azinphos-ethyl (44), azinphos-methyl (45), azothoate (889), *Bacillus thuringiensis* delta endotoxins (alternative name) (52), barium hexafluorosilicate (alternative name) [CCN], barium polysulfide (IUPAC/Chemical Abstracts name) (892), barthrin [CCN],

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BAS 320 I (compound code), Bayer 22/190 (development code) (893), Bayer 22408 (development code) (894), bendiocarb (58), benfuracarb (60), bensultap (66), beta-cyfluthrin (194), beta-cypermethrin (203), bifenthrin (76), bioallethrin (78), bioallethrin S-cyclopentenyl isomer (alternative name) (79), bioethanomethrin [CCN], biopermethrin (908), bioresmethrin (80), bis(2-chloroethyl) ether (IUPAC name) (909), bistrifluron (83), borax (86), brofenvalerate (alternative name), bromfenvinfos (914), bromocyclen (918), bromo-DDT (alternative name) [CCN], bromophos (920), bromophos-ethyl (921), bufencarb (924), buprofezin (99), butacarb (926), butathiofos (927), butocarboxim (103), butonate (932), butoxycarboxim (104), butylpyridaben (alternative name), cadusafos (109), calcium arsenate [CCN], calcium cyanide (444), calcium polysulfide (IUPAC name) (111), camphechlor (941), carbanolate (943), carbaryl (115), carbofuran (118), carbon disulfide (IUPAC/Chemical Abstracts name) (945), carbon tetrachloride (IUPAC name) (946), carbophenothion (947), carbosulfan (119), cartap (123), cartap hydrochloride (123), cevadine (alternative name) (725), chlorbicyclen (960), chlordane (128), chlordecone (963), chlordimeform (964), chlordimeform hydrochloride (964), chlorethoxyfos (129), chlorfenapyr (130), chlorfenvinphos (131), chlorfluazuron (132), chlormephos (136), chloroform [CCN], chloropicrin (141), chlorphoxim (989), chlorprazophos (990), chlorpyrifos (145), chlorpyrifos-methyl (146), chlorthiophos (994), chromafenozide (150), cinerin I (696), cinerin II (696), cinerins (696), cis-resmethrin (alternative name), cismethrin (80), clocythrin (alternative name), cloethocarb (999), closantel (alternative name) [CCN], clothianidin (165), copper acetoarsenite [CCN], copper arsenate [CCN], copper oleate [CCN], coumaphos (174), coumithoate (1006), crotamiton (alternative name) [CCN], crotoxyphos (1010), crufoamate (1011), cryolite (alternative name) (177), CS 708 (development code) (1012), cyanofenphos (1019), cyanophos (184), cyanthoate (1020), cyclethrin [CCN], cycloprothrin (188), cyfluthrin (193), cyhalothrin (196), cypermethrin (201), cyphenothrin (206), cyromazine (209), cythioate (alternative name) [CCN], *d*-limonene (alternative name) [CCN], *d*-tetramethrin (alternative name) (788), DAEP (1031), dazomet (216), DDT (219), decarbofuran (1034), deltamethrin (223), demephion (1037), demephion-O (1037), demephion-S (1037), demeton (1038), demeton-methyl (224), demeton-O (1038), demeton-O-methyl (224), demeton-S (1038), demeton-S-methyl (224), demeton-S-methylsulphon (1039), diafenthiuron (226), dialifos (1042), diamidafos (1044), diazinon (227), dicapthon (1050), dichlofenthion (1051), dichlorvos (236), dicliphos (alternative name), dicresyl (alternative name) [CCN], dicrotophos (243), dicyclanil (244), dieldrin (1070), diethyl 5-methylpyrazol-3-yl phosphate (IUPAC name) (1076), diflubenzuron (250), dilor (alternative name) [CCN], dimefluthrin [CCN], dimefox

DEMANDE OU BREVET VOLUMINEUX

LA PRÉSENTE PARTIE DE CETTE DEMANDE OU CE BREVET COMPREND PLUS D'UN TOME.

CECI EST LE TOME 1 DE 2
CONTENANT LES PAGES 1 À 227

NOTE : Pour les tomes additionels, veuillez contacter le Bureau canadien des brevets

JUMBO APPLICATIONS/PATENTS

THIS SECTION OF THE APPLICATION/PATENT CONTAINS MORE THAN ONE VOLUME

THIS IS VOLUME 1 OF 2
CONTAINING PAGES 1 TO 227

NOTE: For additional volumes, please contact the Canadian Patent Office

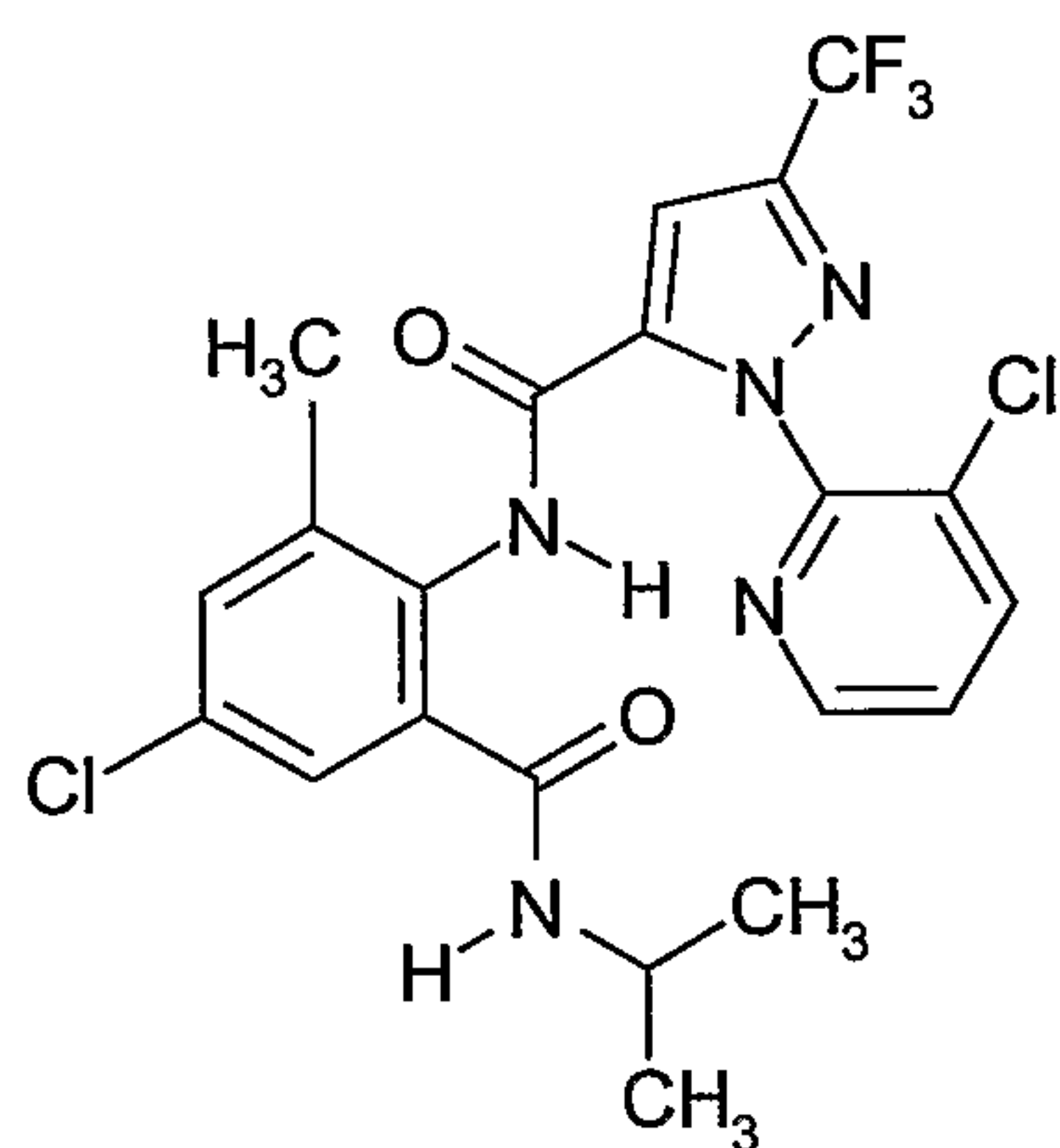
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What is claimed is:

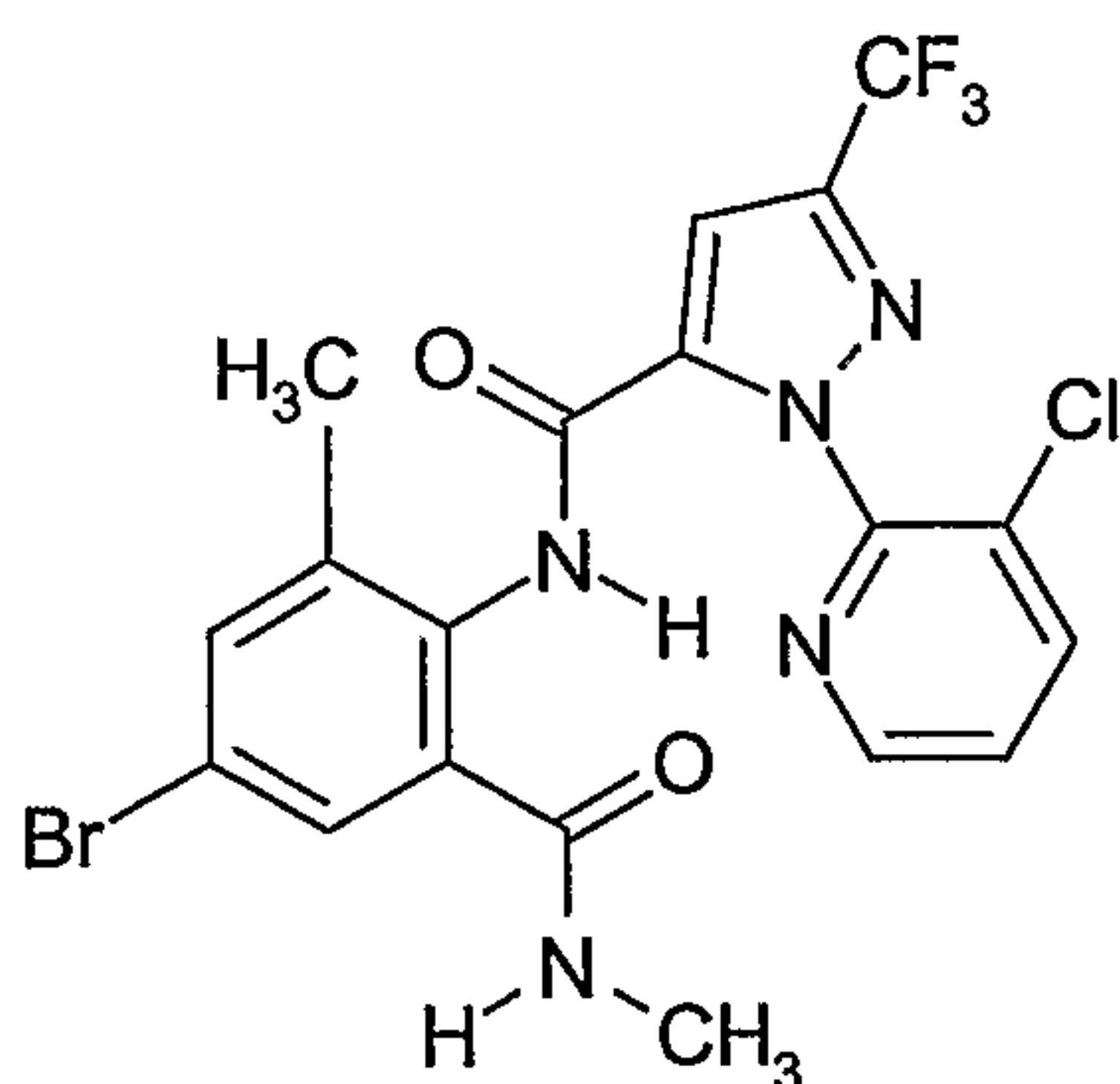
1. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-7)



(A-7)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

2. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-2)



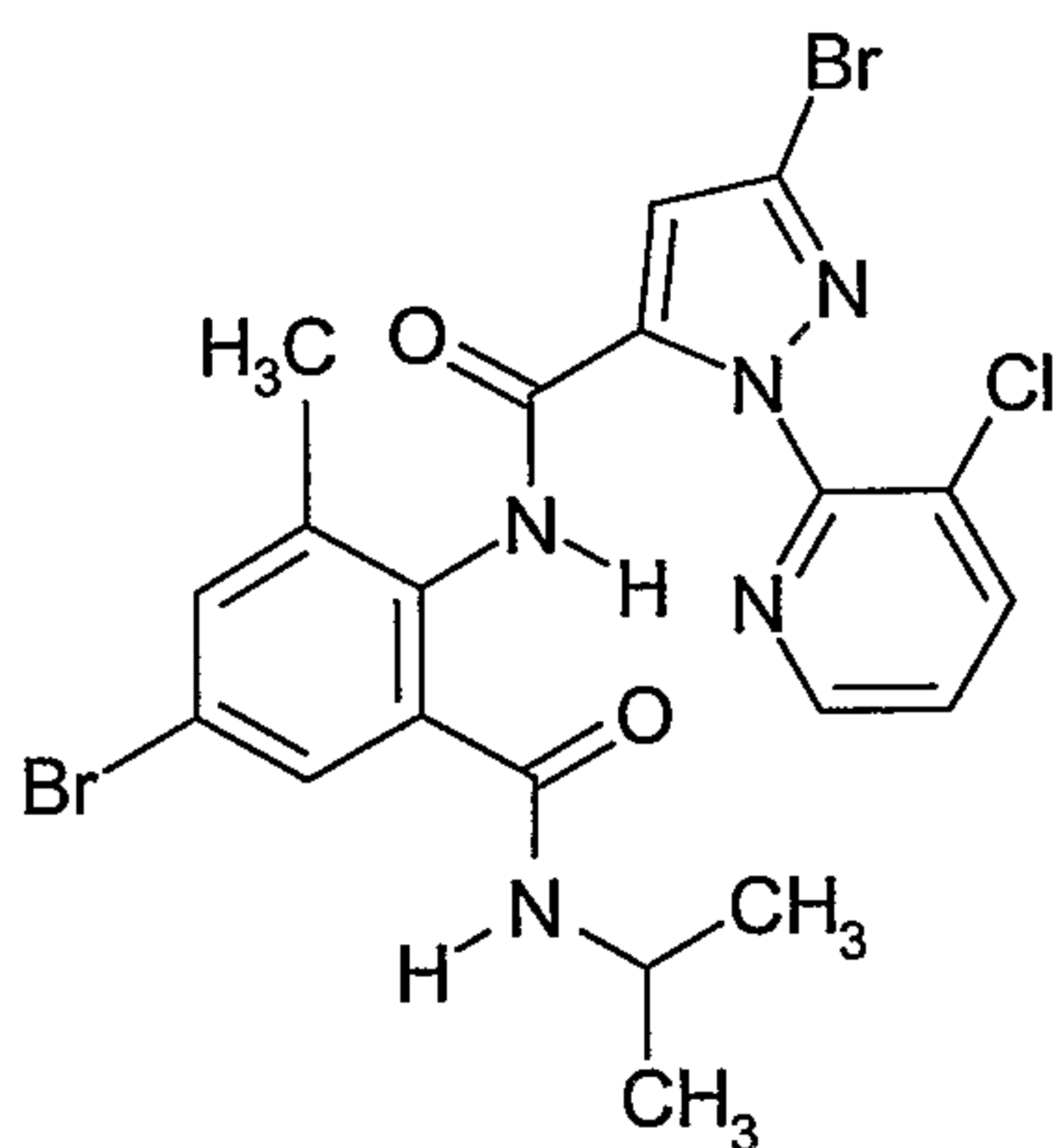
(A-2)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an

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insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

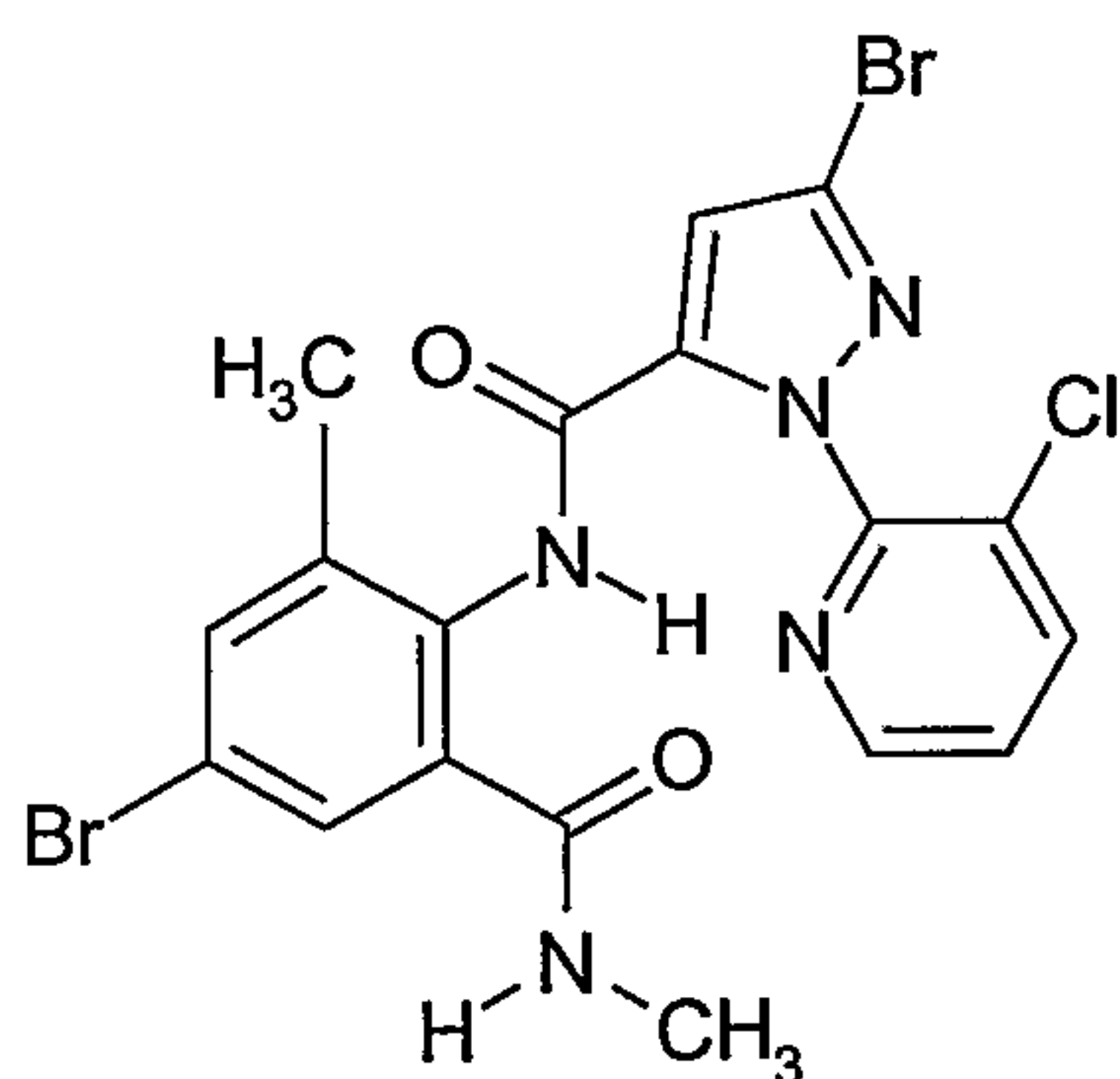
3. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-3)



(A-3)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

4. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-4)



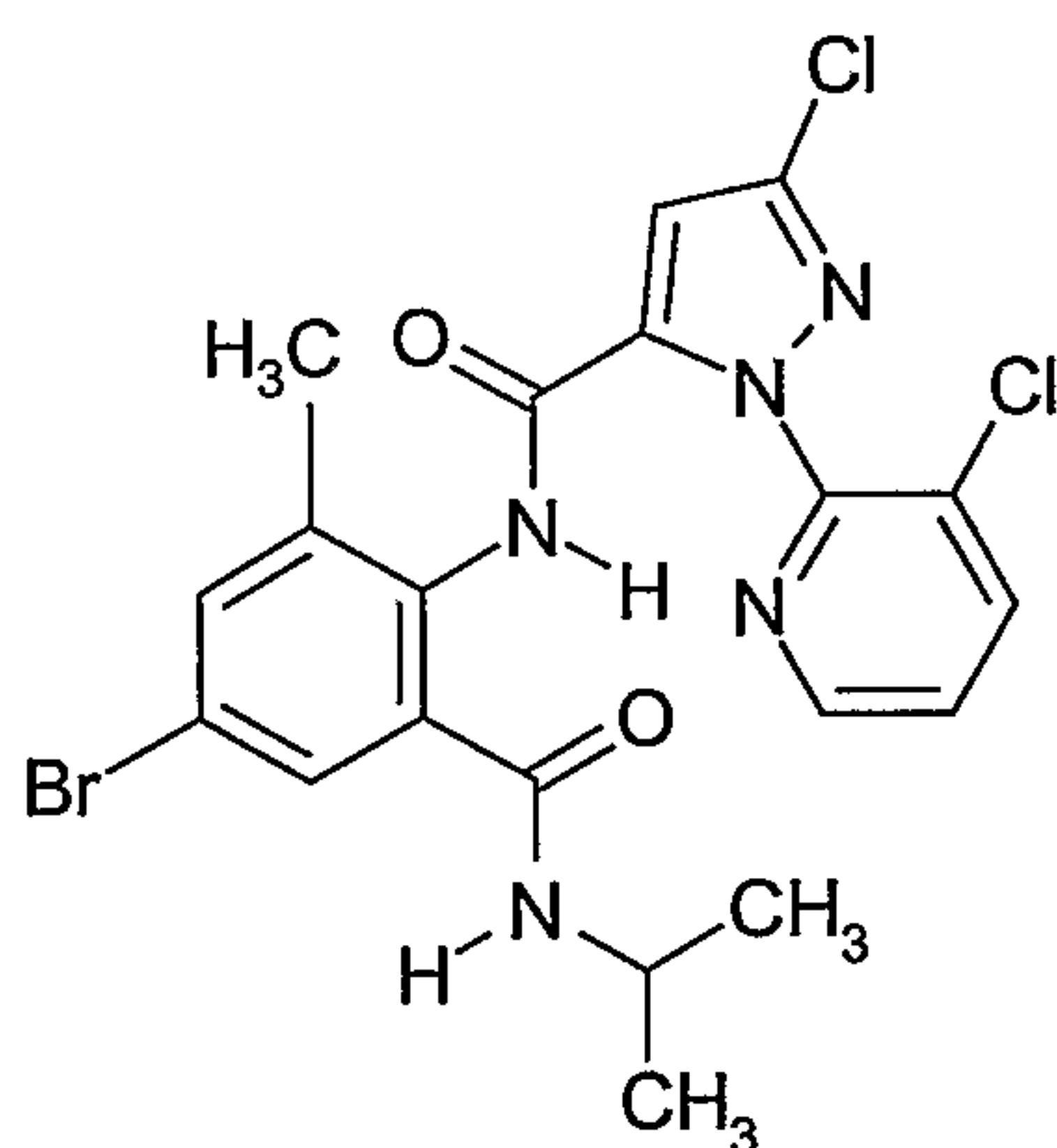
(A-4)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an

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insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

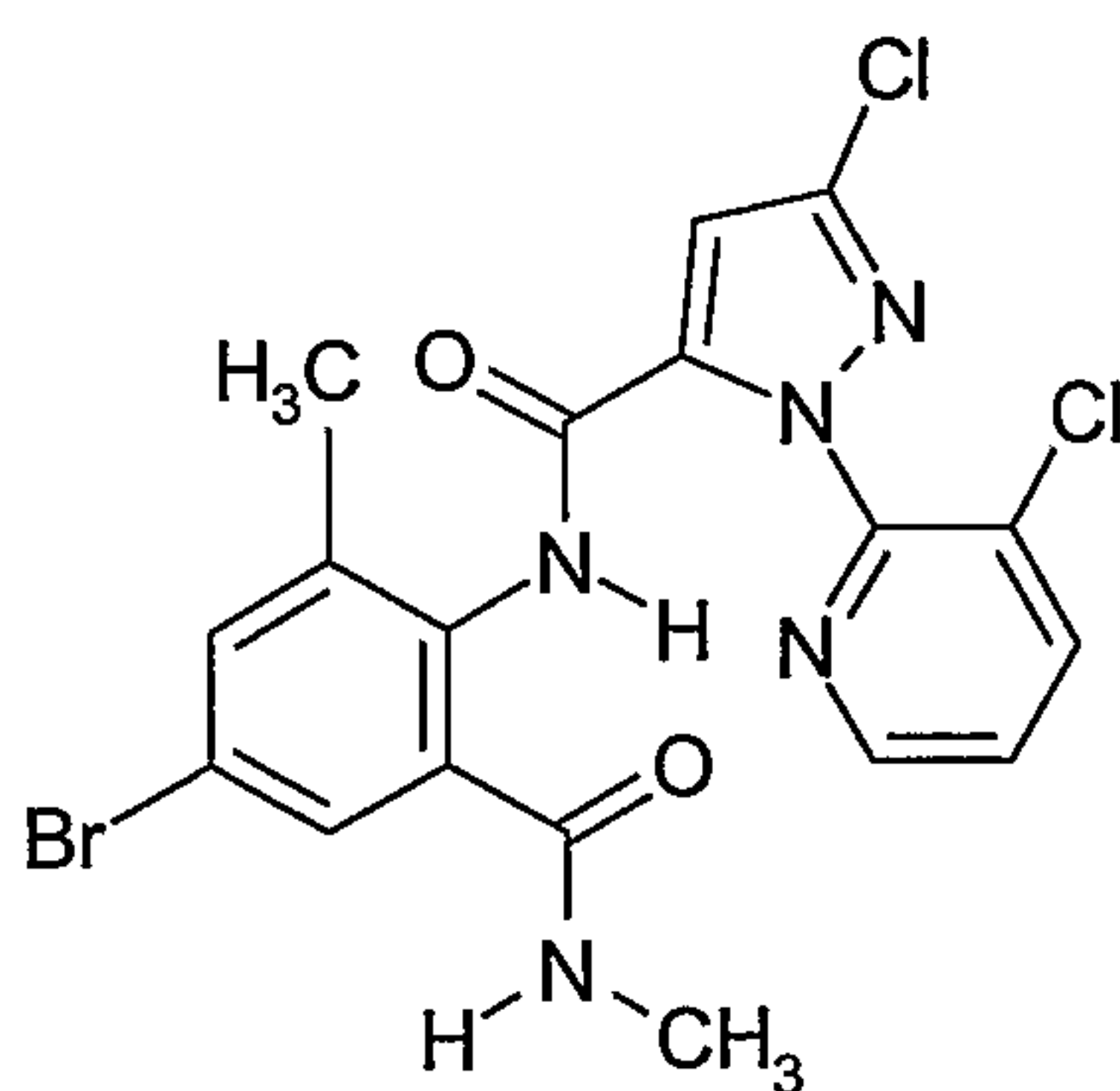
5. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-5)



(A-5)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

6. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-6)



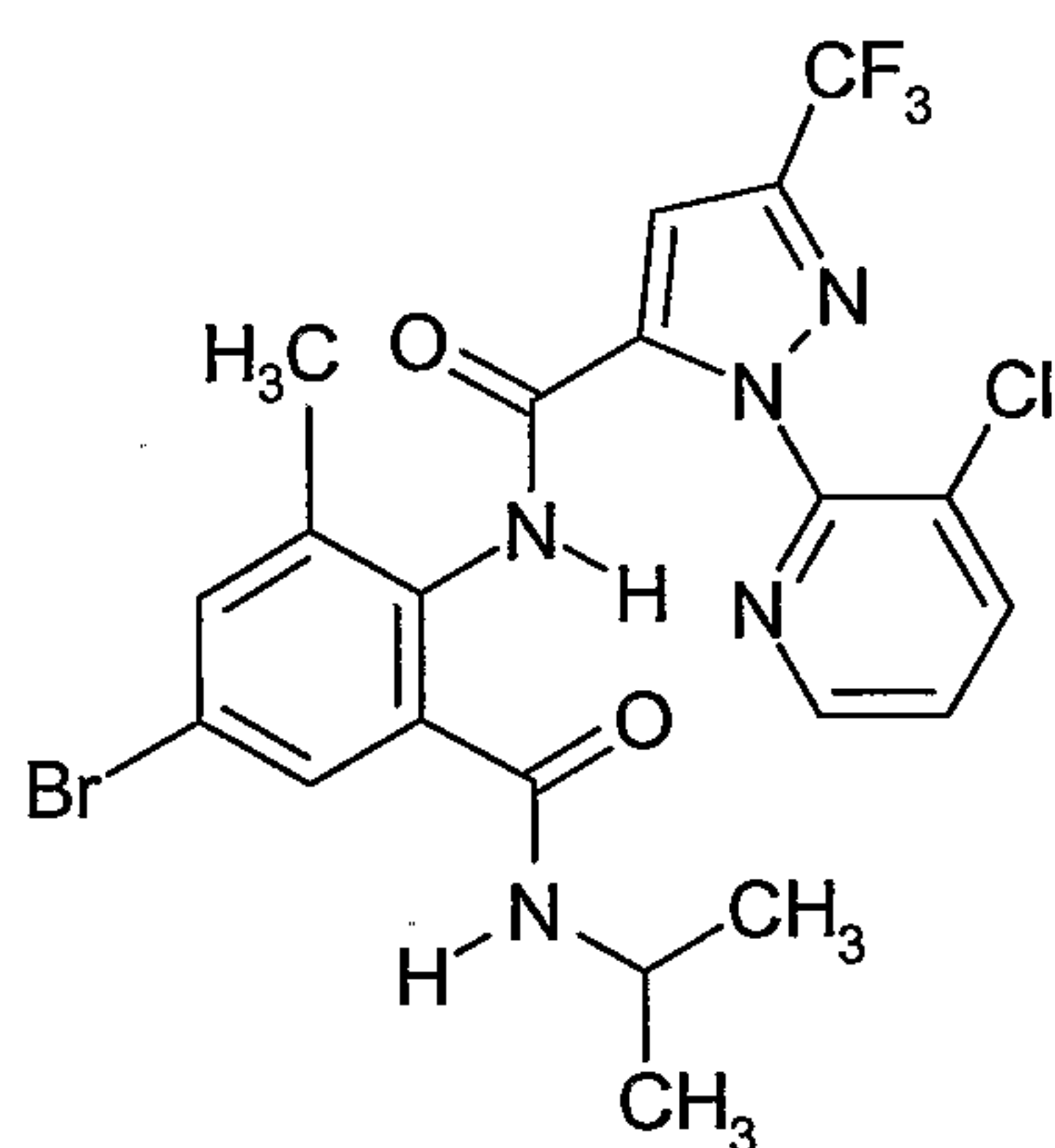
(A-6)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an

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insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

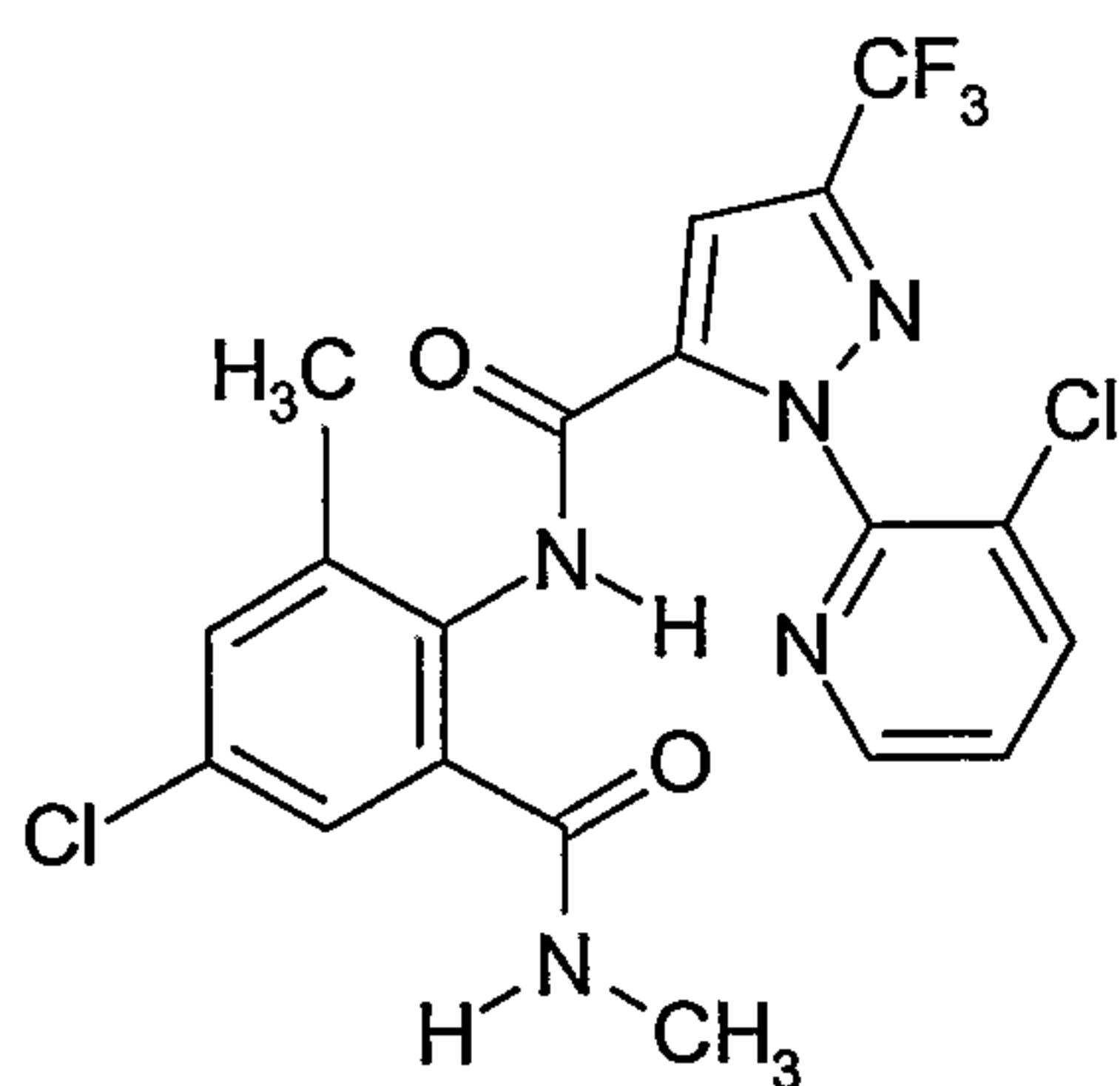
7. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-1)



(A-1)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

8. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-8)



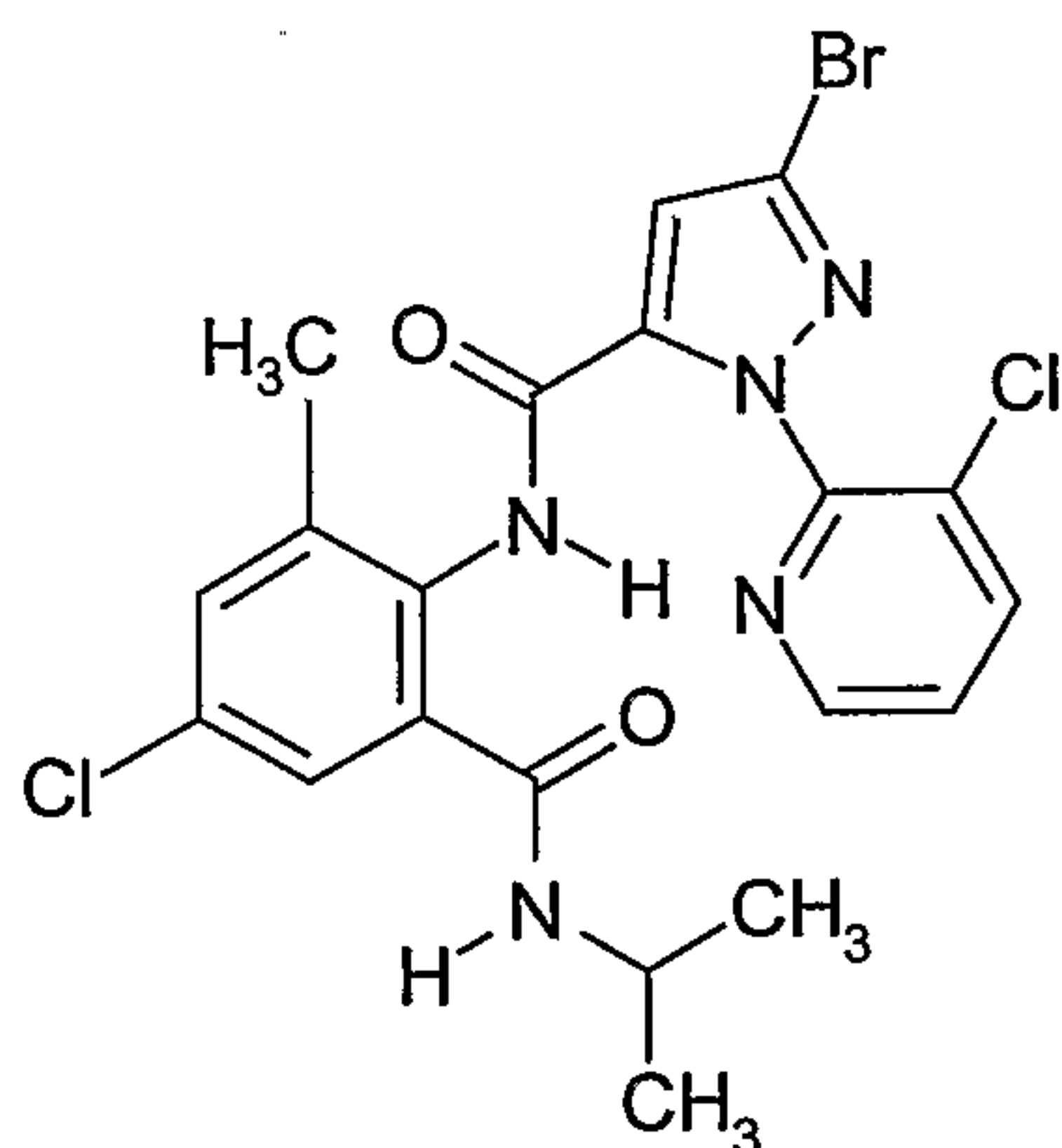
(A-8)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an

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insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

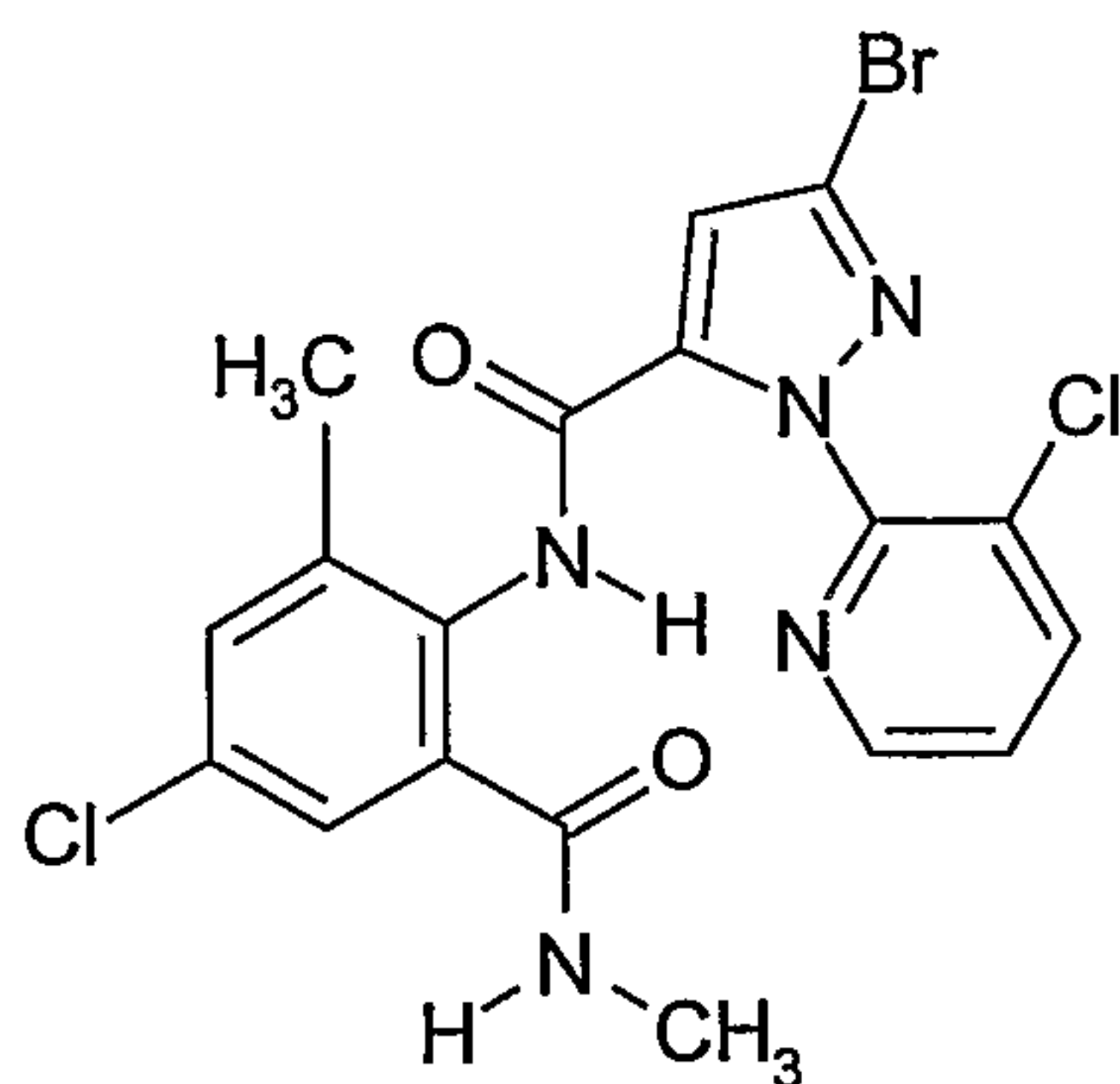
9. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-9)



(A-9)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

10. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-10)



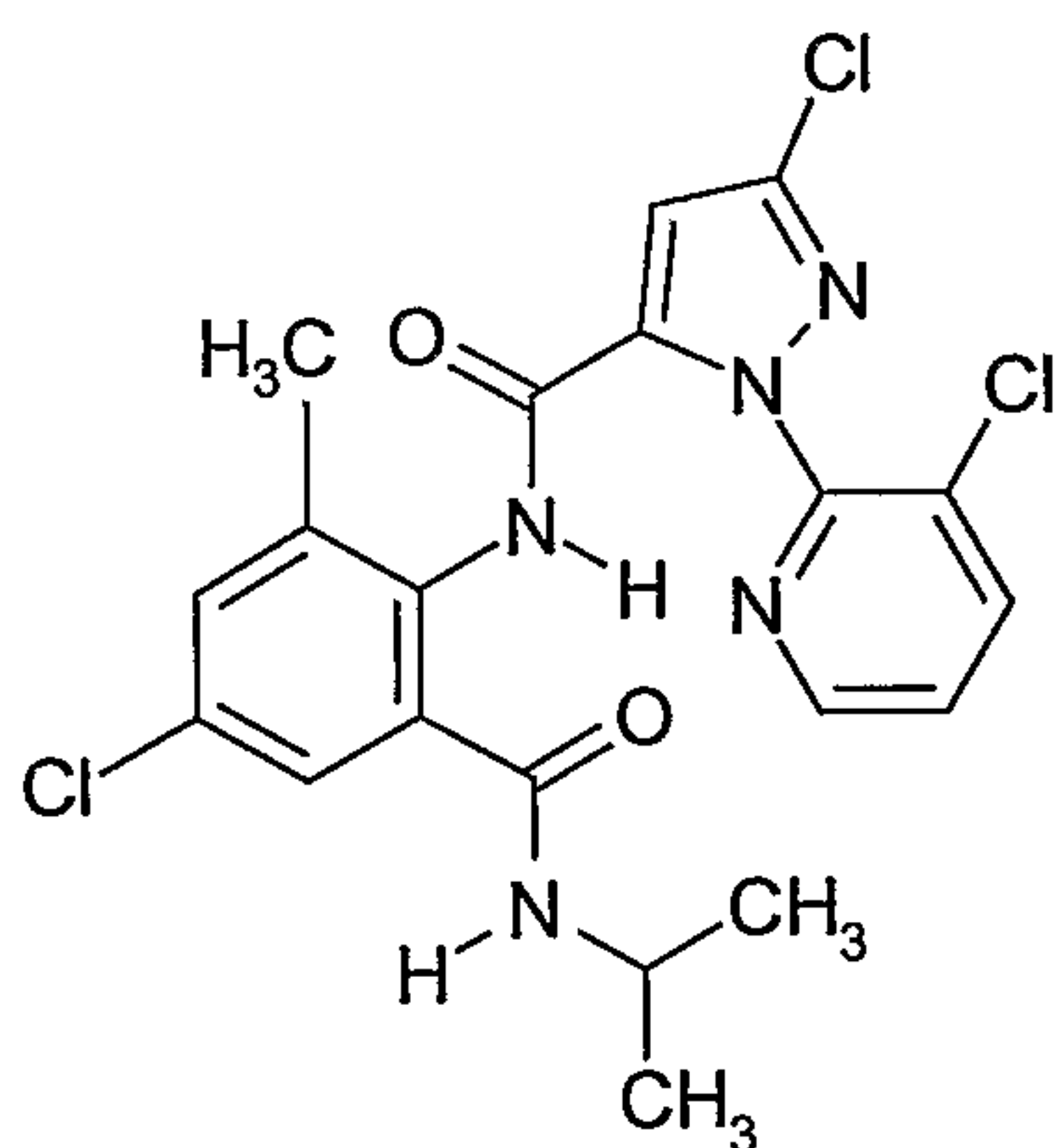
(A-10)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an

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insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

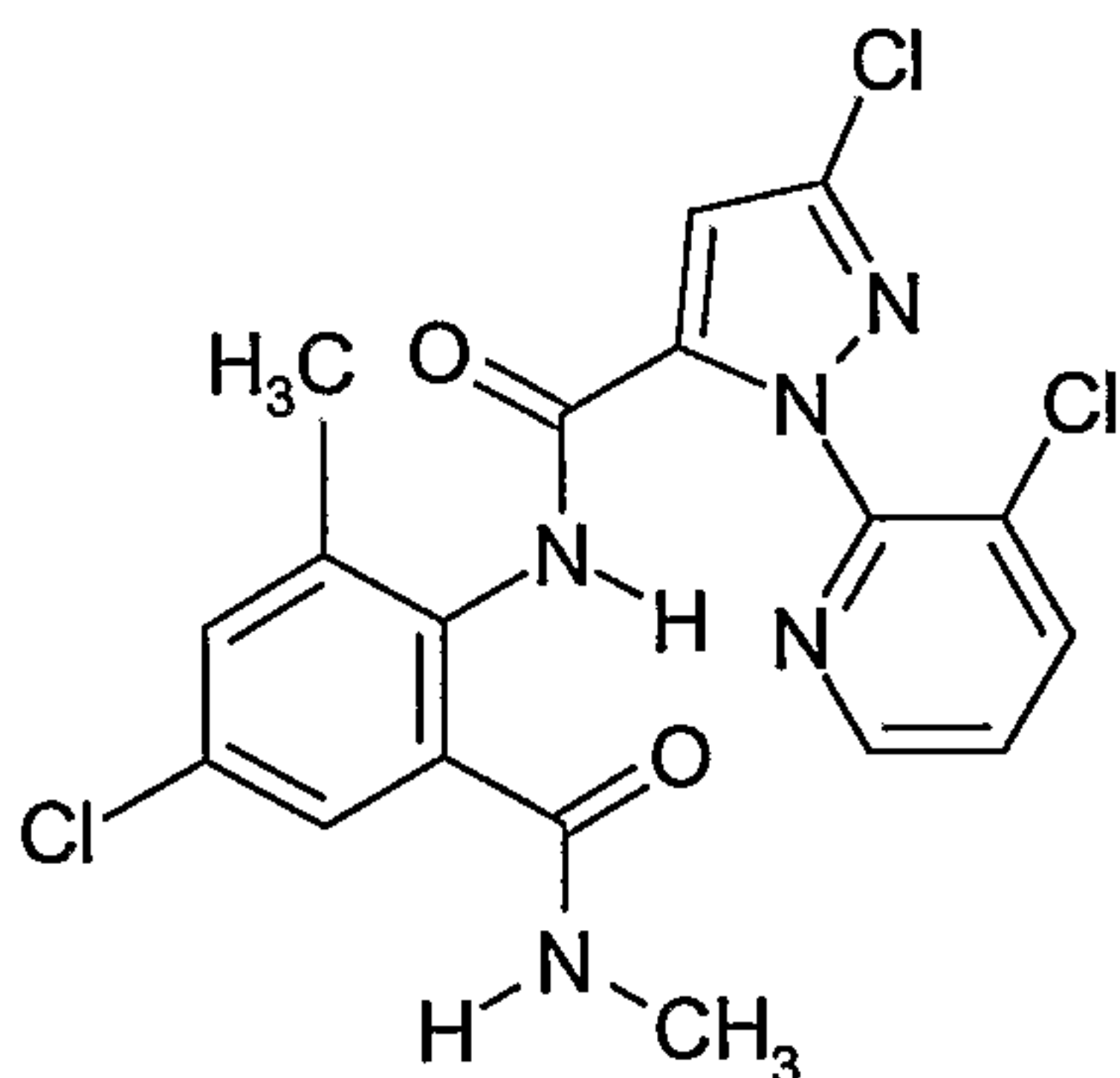
11. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-11)



(A-11)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

12. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-12)



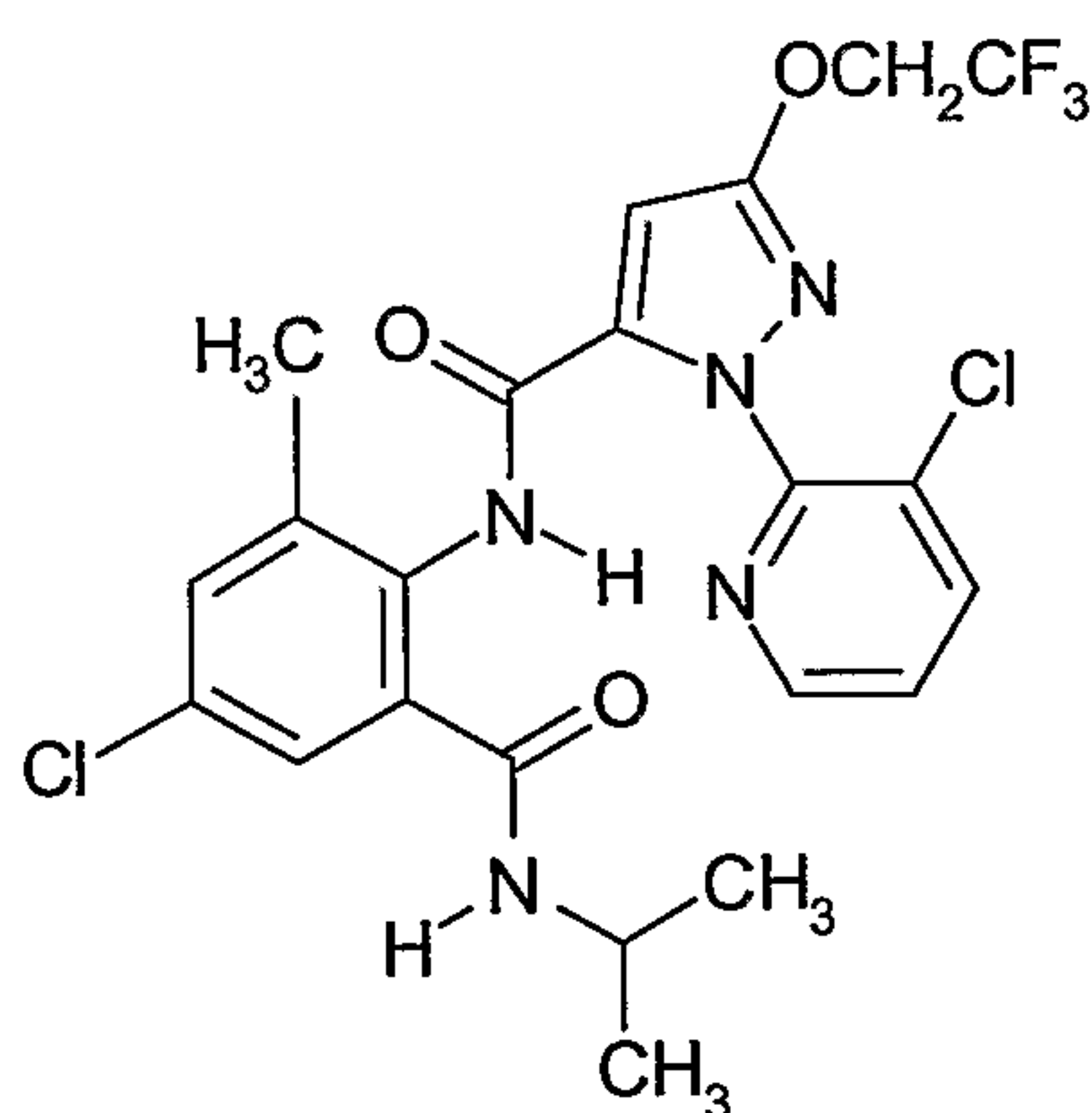
(A-12)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an

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insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

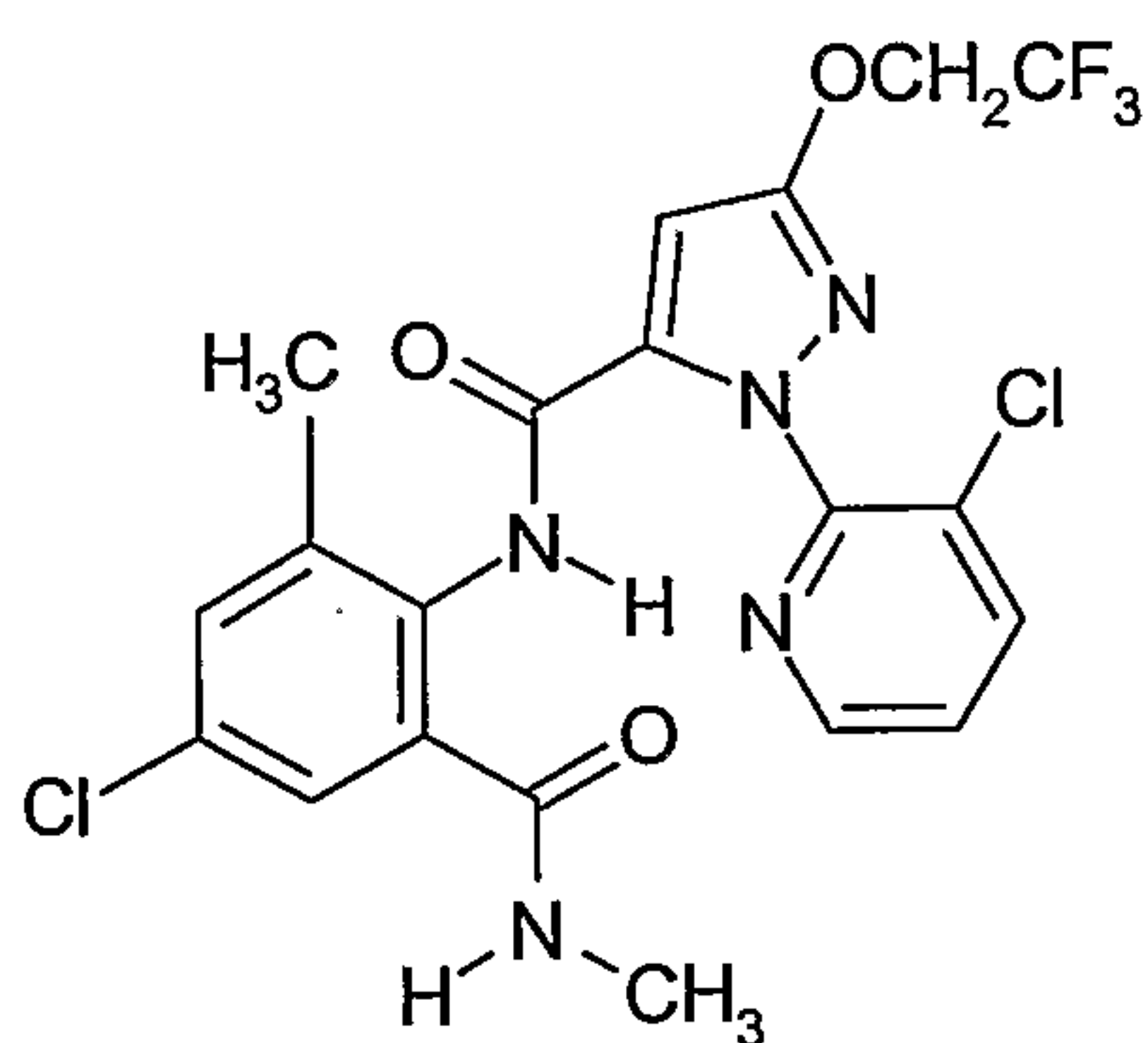
13. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-13)



(A-13)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

14. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-14)



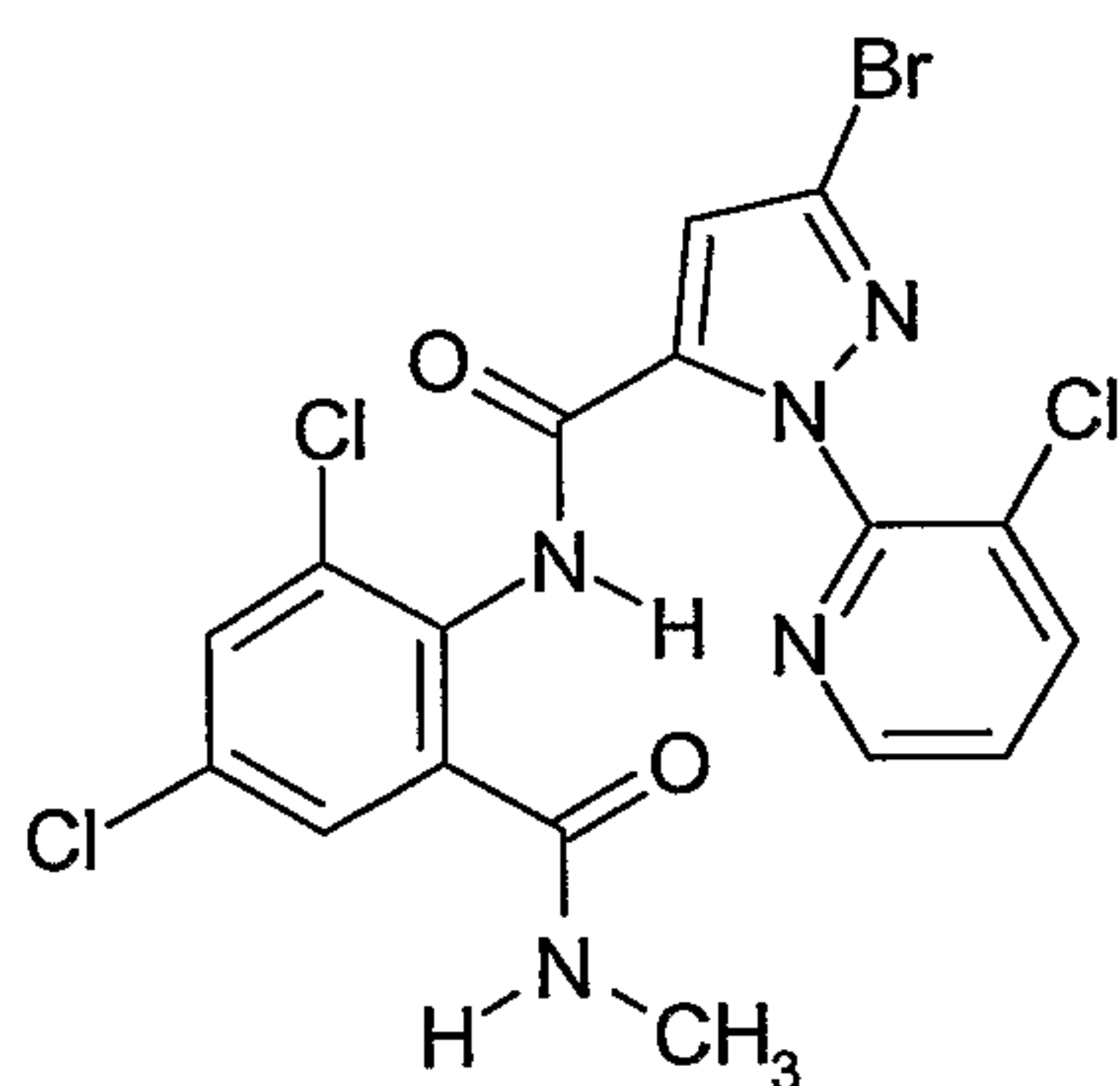
(A-14)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an

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insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

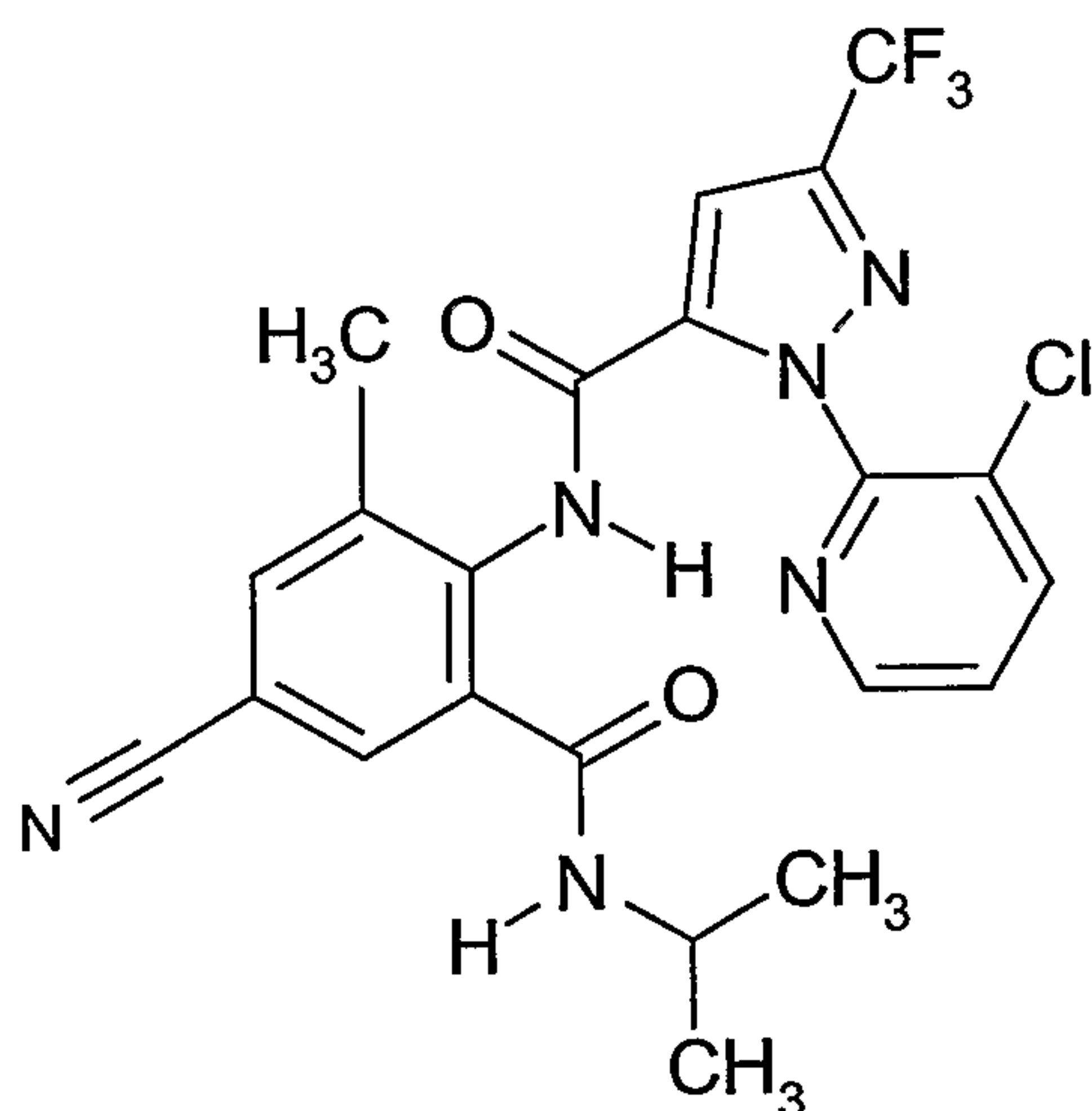
15. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-15)



(A-15)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

16. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-16)

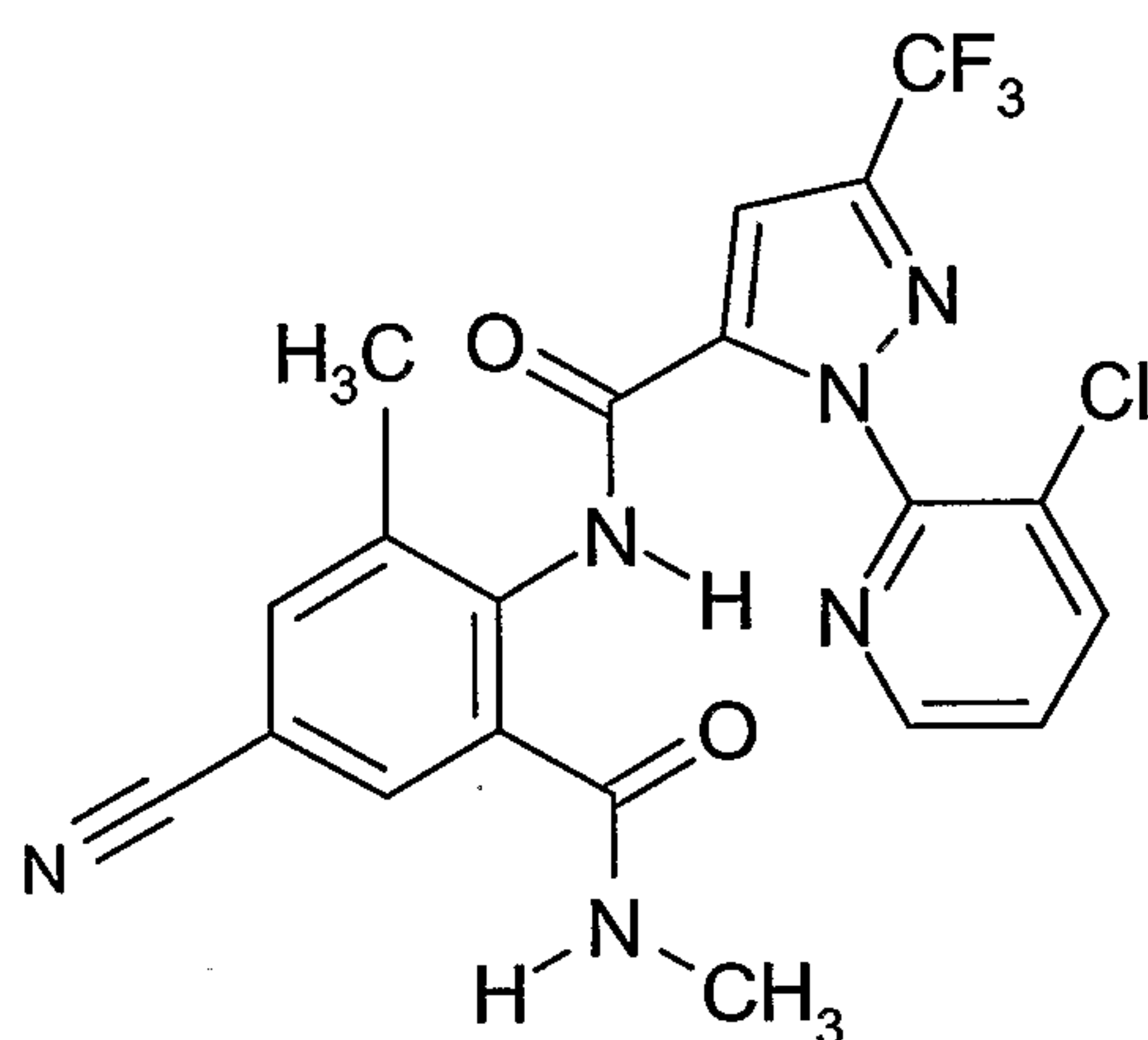


(A-16)

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and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

17. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-17)

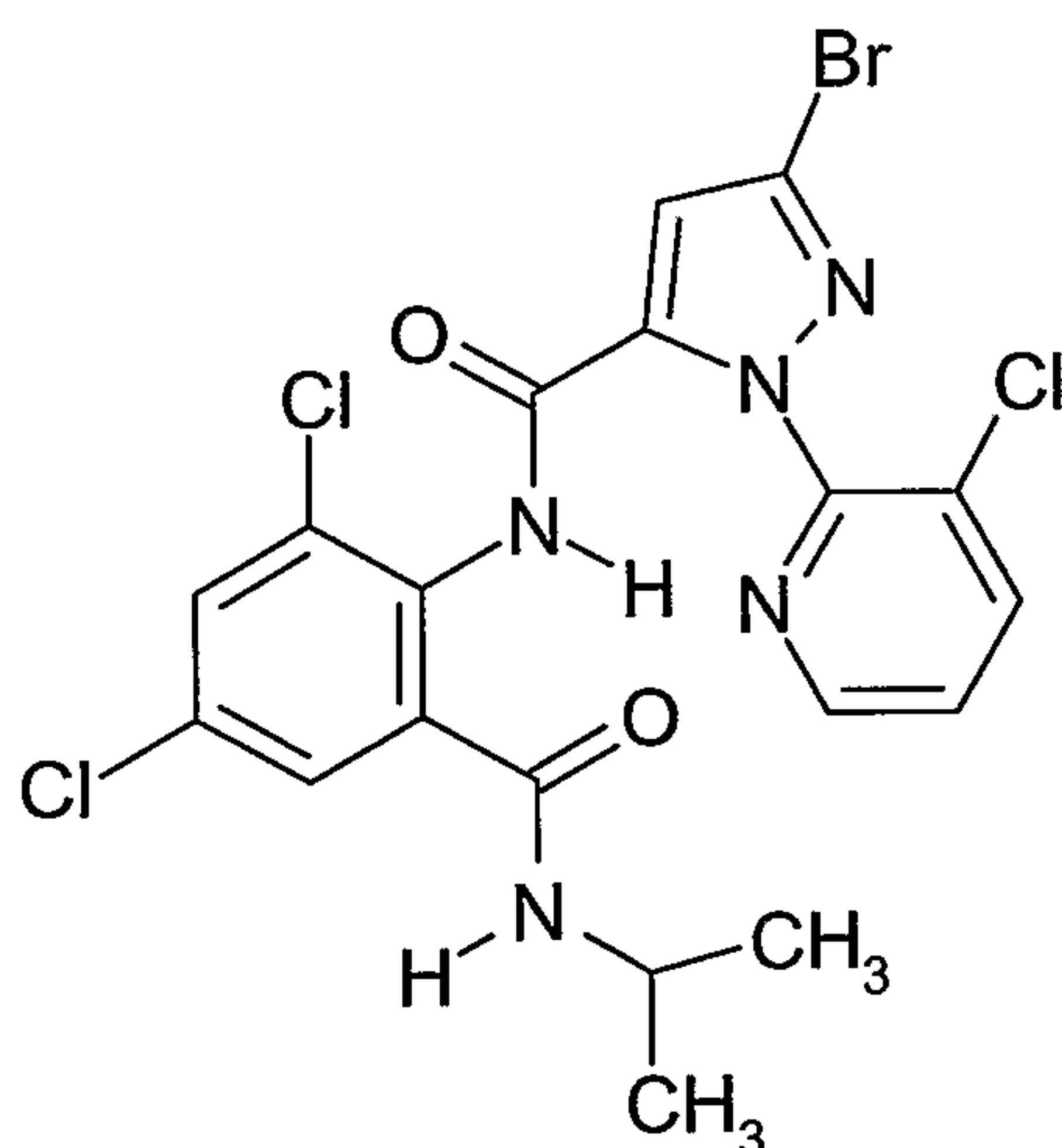


(A-17)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

18. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-18)

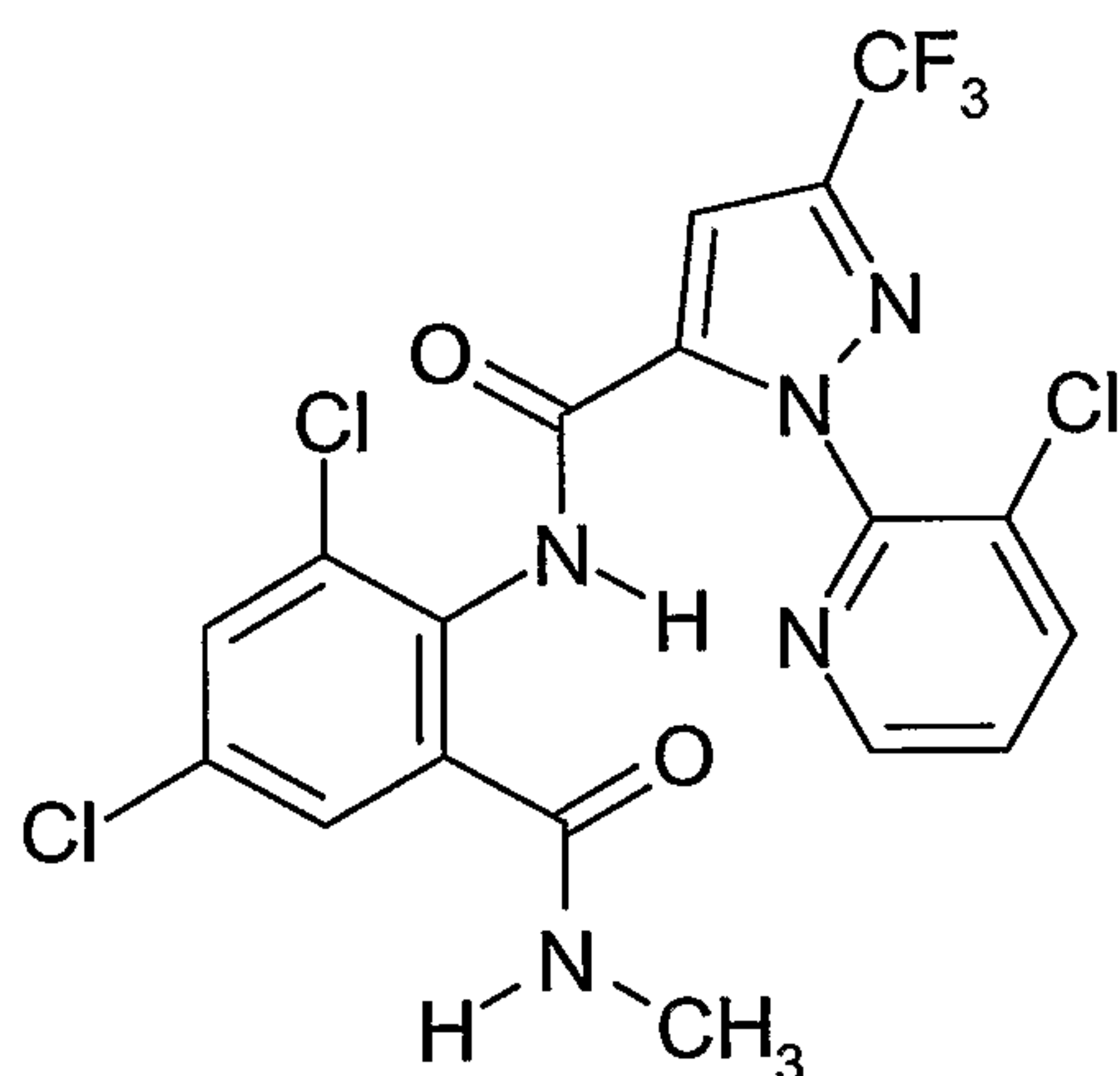
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(A-18)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

19. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-19)

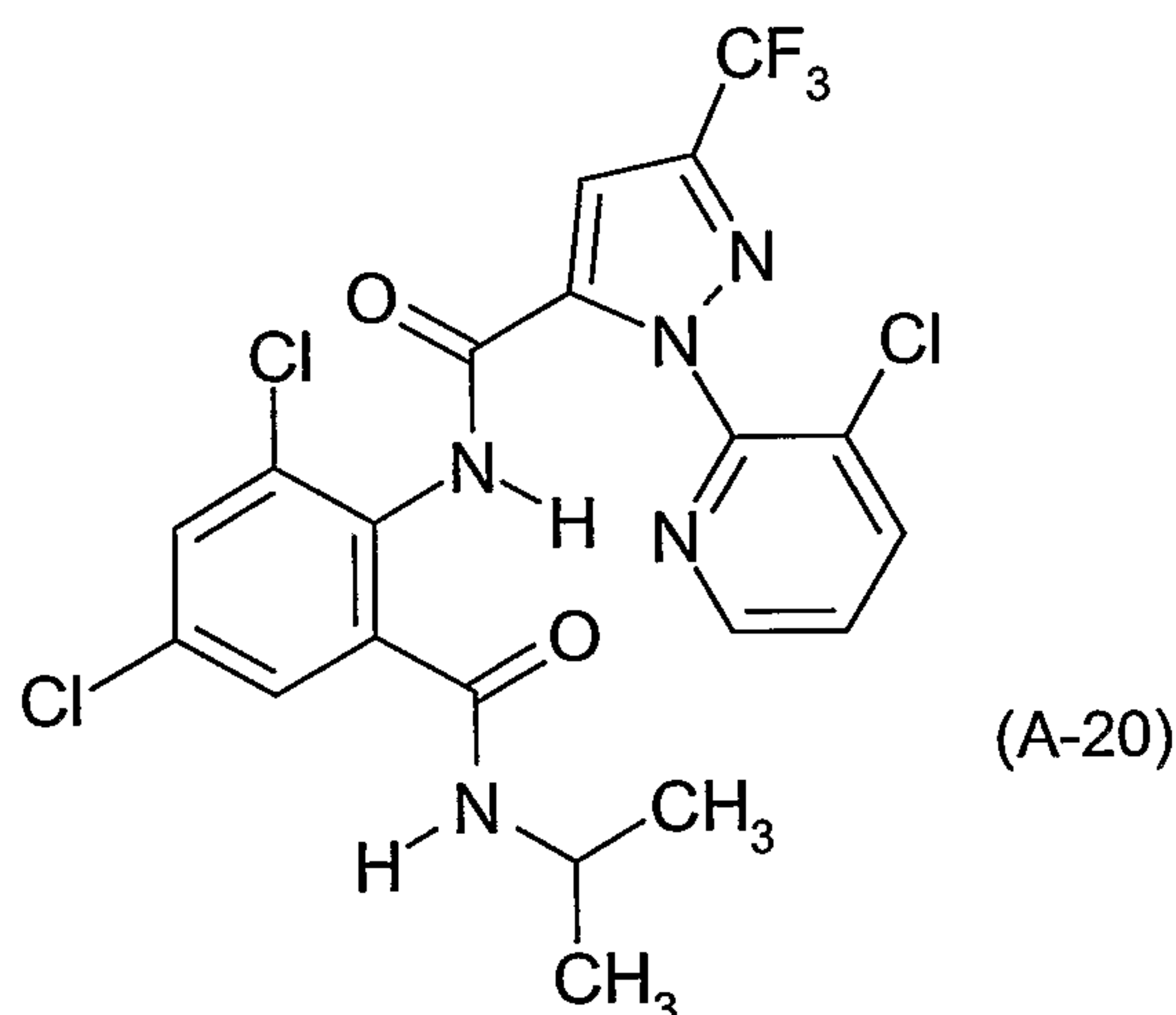


(A-19)

and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

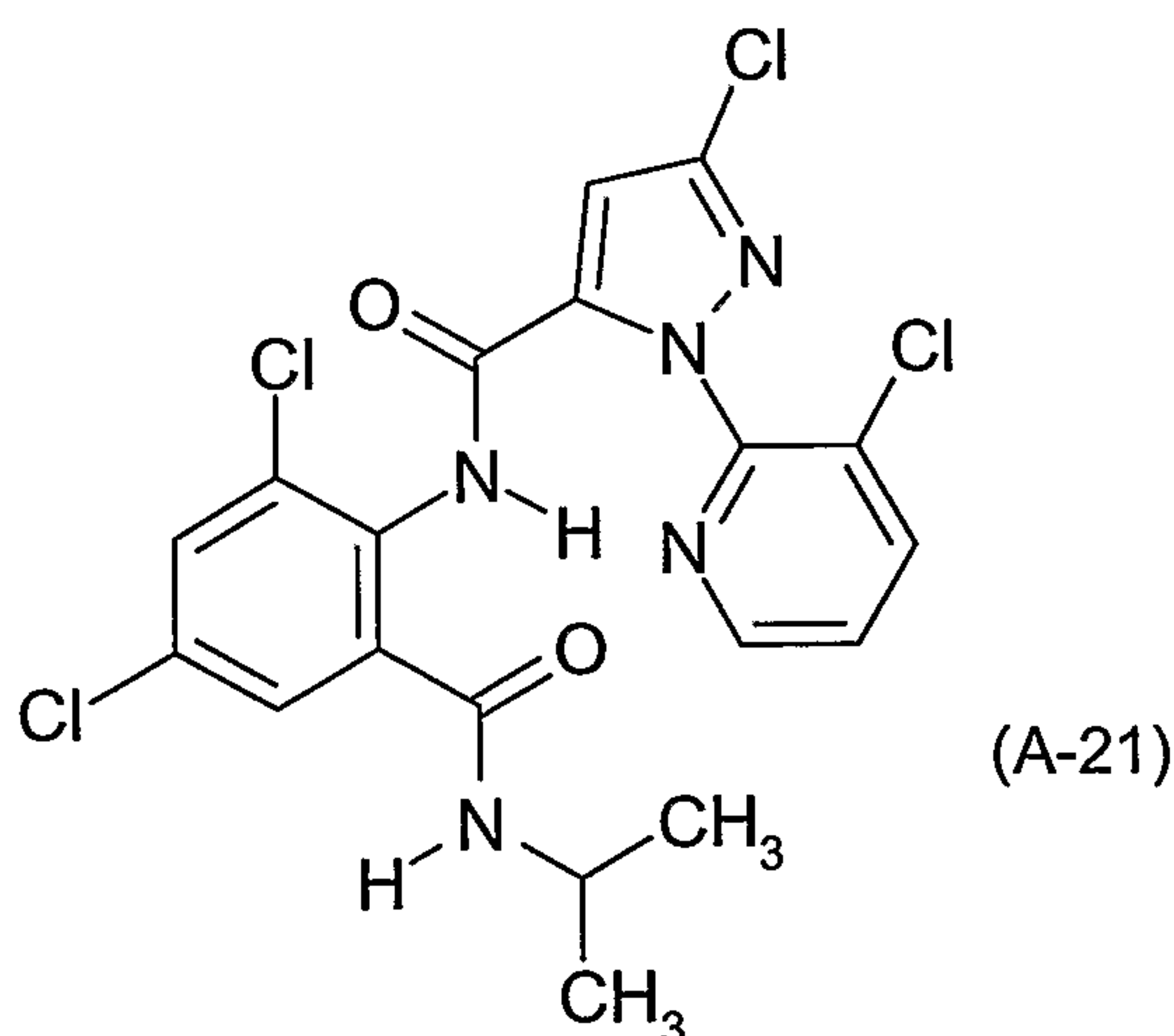
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20. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-20)



and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

21. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-21)

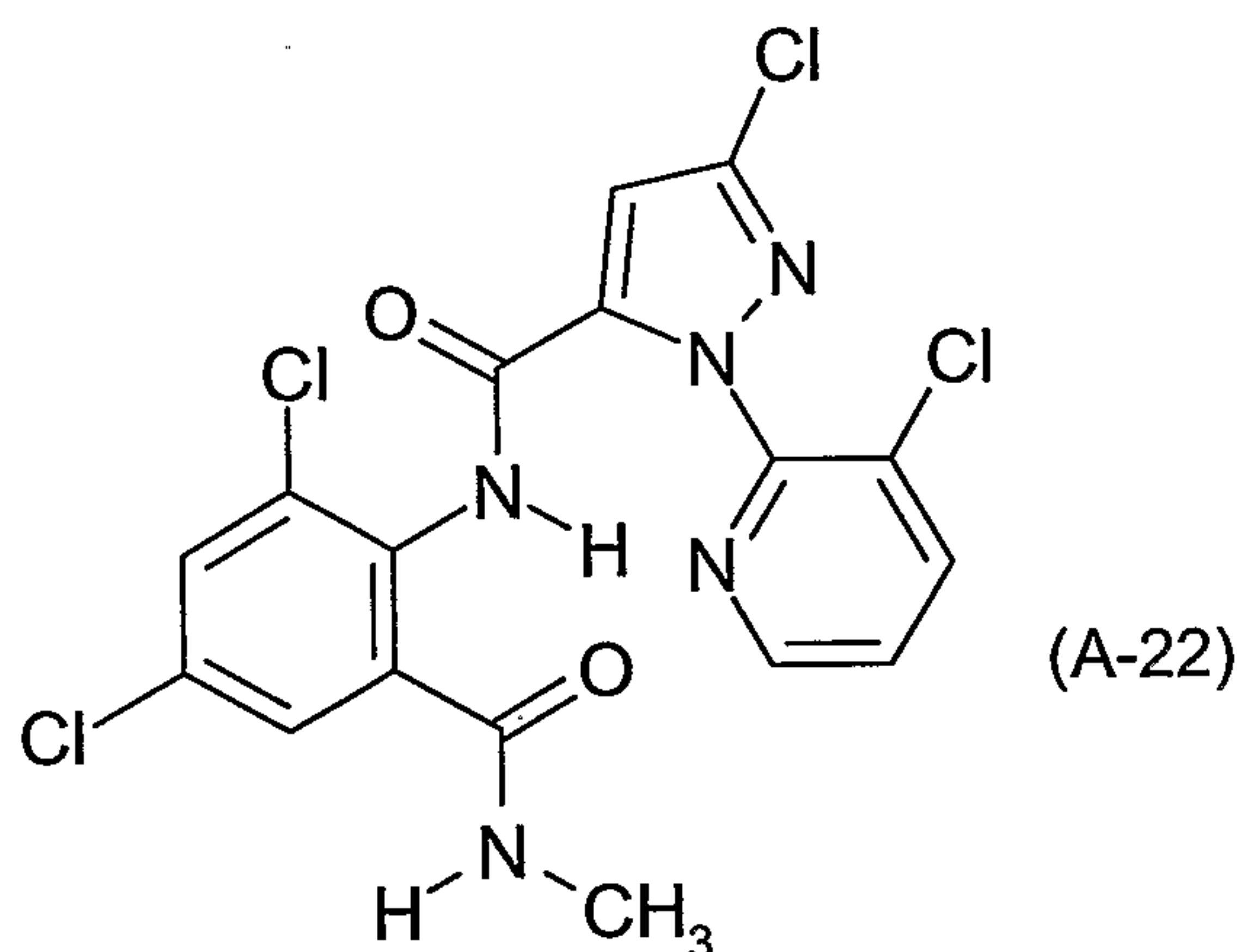


and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an

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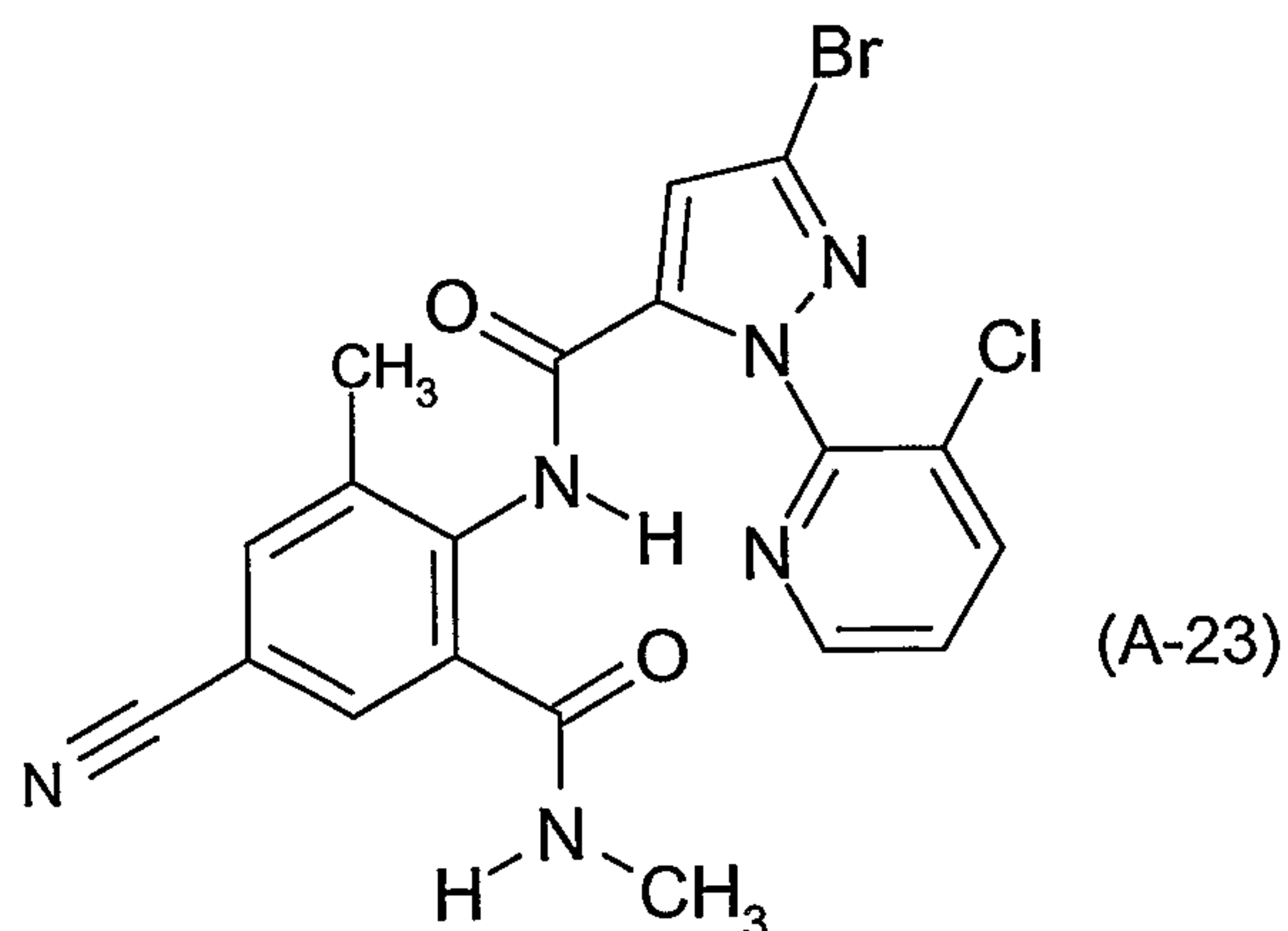
insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

22. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-22)



and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

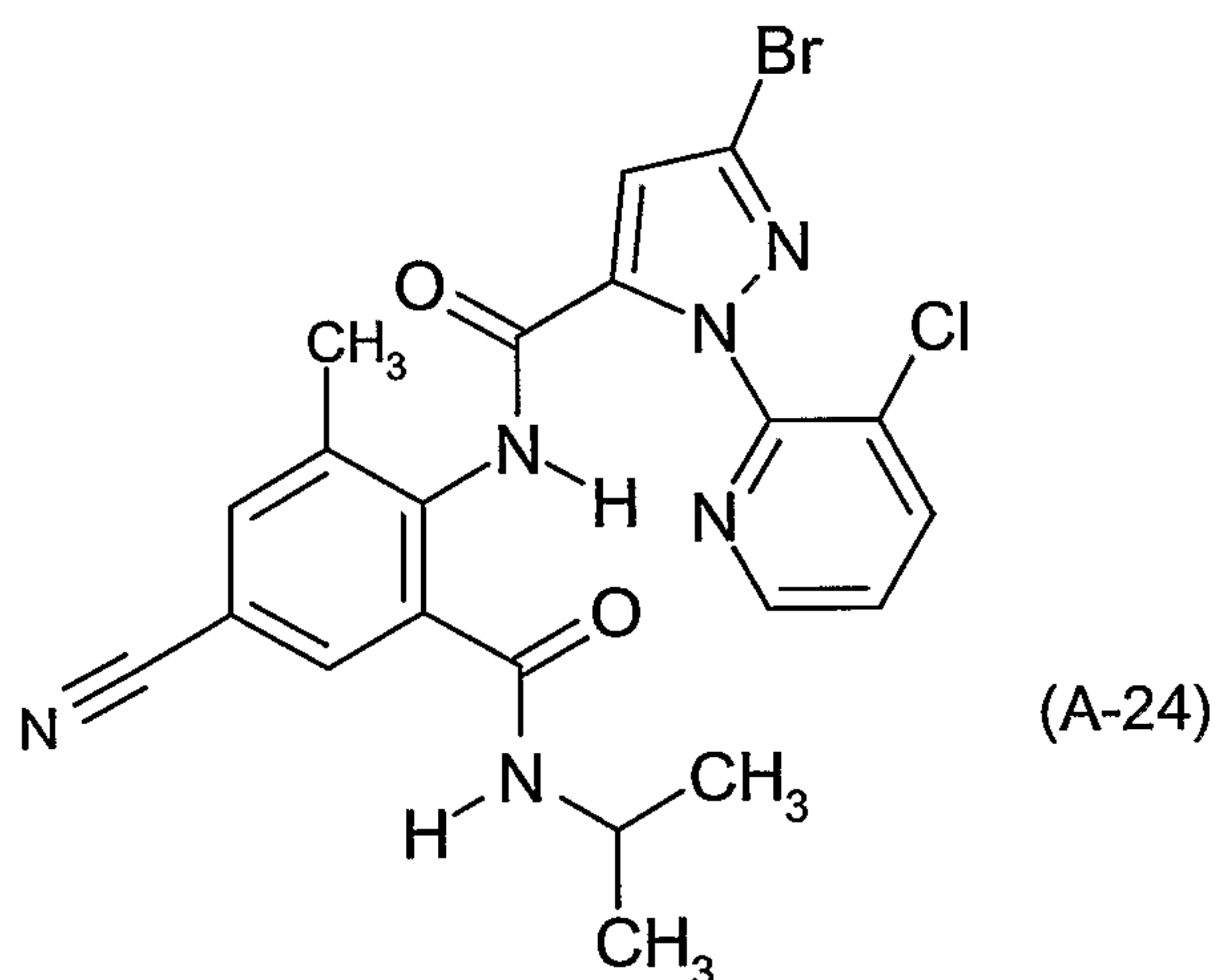
23. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-23)



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and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

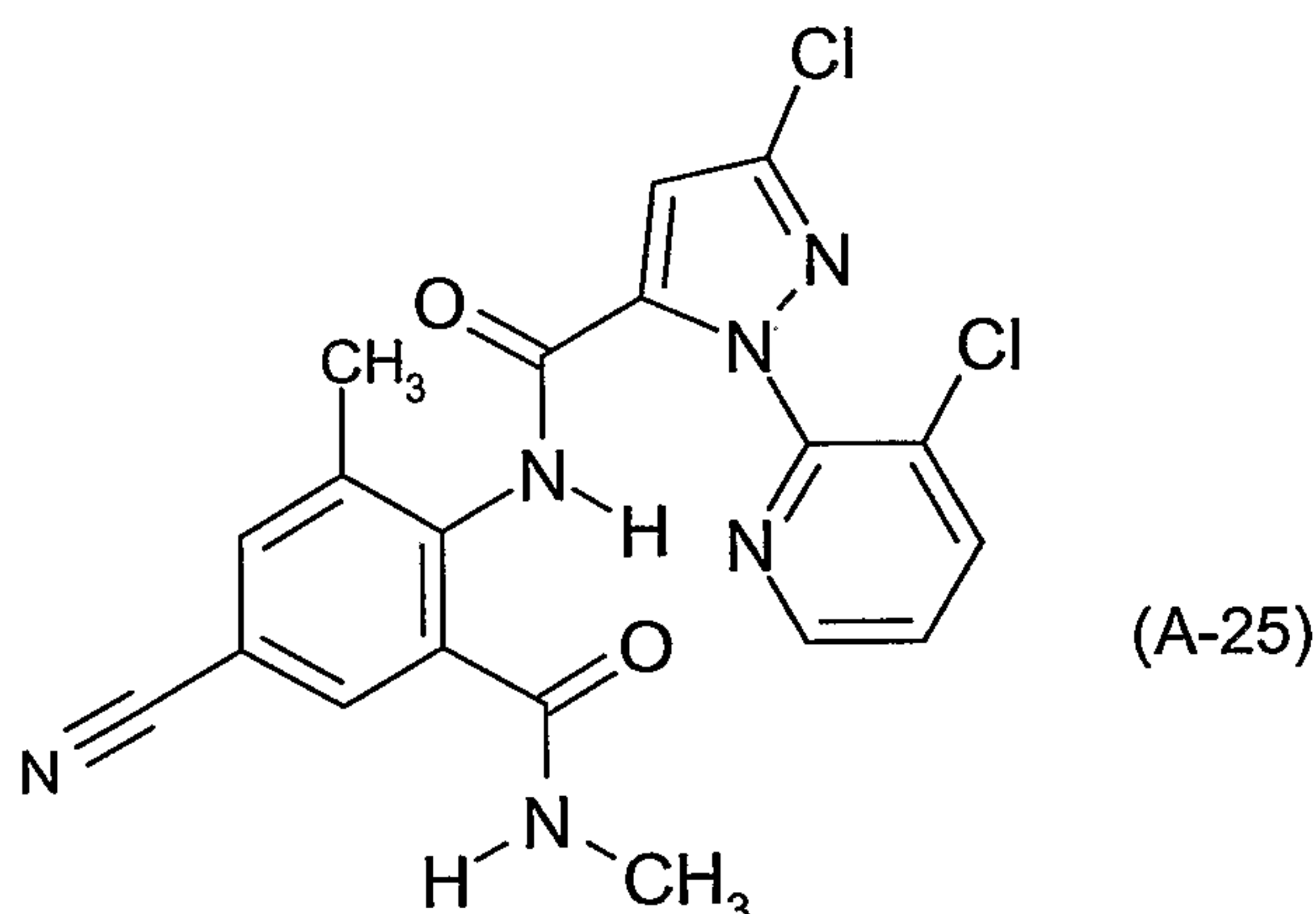
24. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-24)



and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

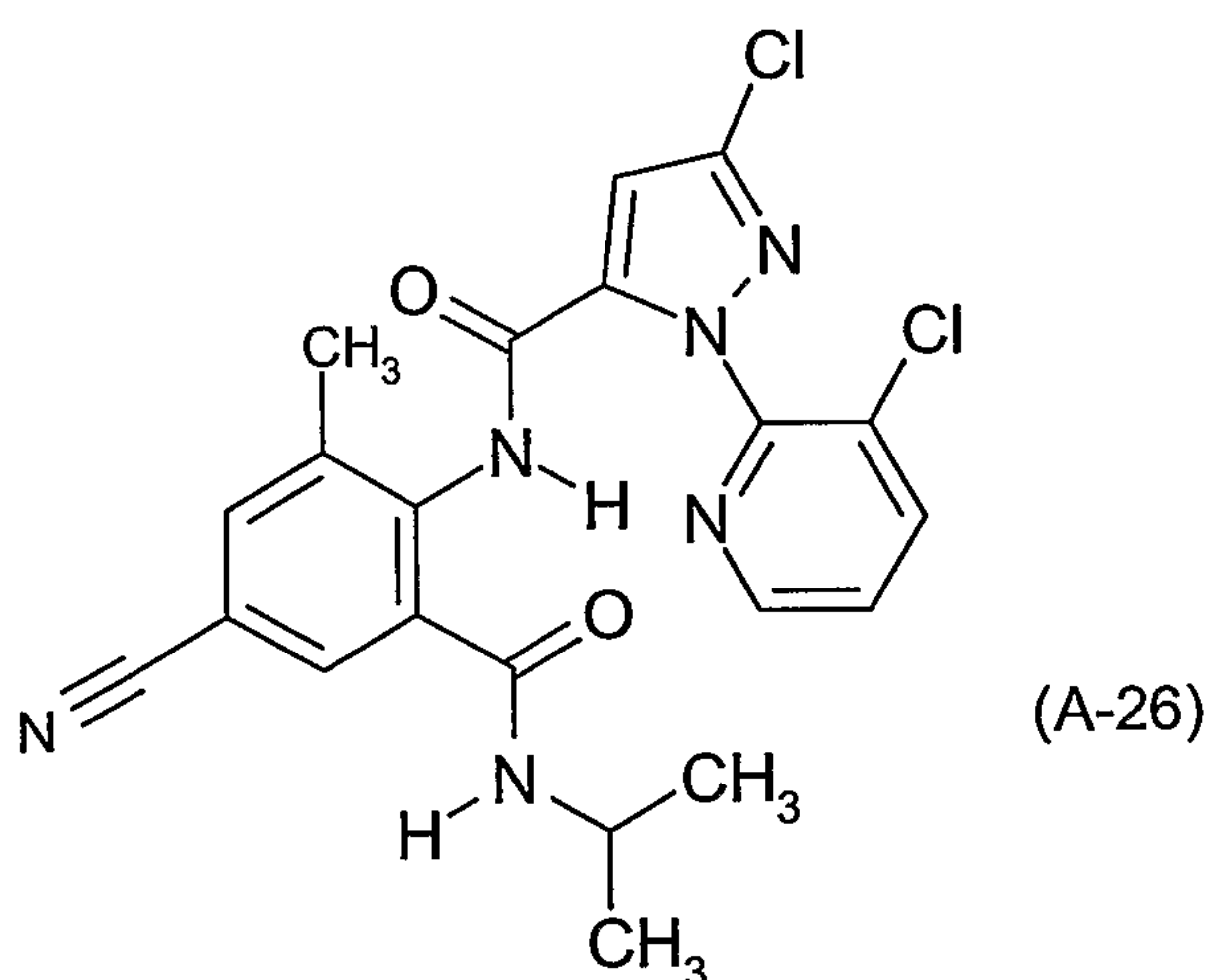
25. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-25)

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and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.

26. A pesticidal composition comprising a mixture consisting of at least two substances, namely one compound (A) and at least one compound (B), as active ingredient and at least one auxiliary, wherein the compound (A) is the compound of formula (A-26)



and the compound (B) is a compound selected from the group of substances consisting of an adjuvant, an acaricide, an algicide, an anthelmintic, an avicide, a bactericide, a biological agent, a soil sterilant, a chemosterilant, an insect pheromone, an insect repellent, an insecticide, a molluscicide, a nematocide, a nitrification inhibitor, a plant activator, a rodenticide, a synergist, an animal repellent, a virucide and a wound protectant.