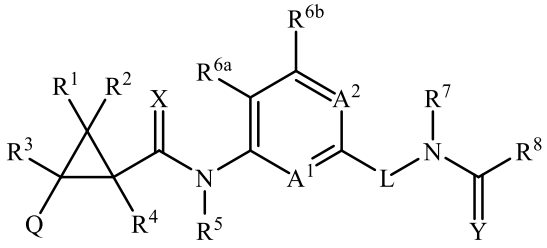
CLAIMS

What is claimed is:

1. A compound selected from Formula **1**, *N*-oxides and salts thereof,



1

wherein

R^1 is H, F, Cl, Br, I, CH_3, or CF_3;

R^2 is F, Cl, Br, I, CH_3, or CF_3;

R^3 and R^4 are each independently H or C_1–C_3 alkyl;

Q is phenyl, thiophenyl, furanyl, pyridinyl or naphthalenyl, each unsubstituted or substituted with 1 to 3 R^{10};

X is O or S;

Y is O or S;

R^5 is H, $C(O)OR^{11}$, $C(O)NR^{12}R^{13}$, $C(O)R^{14}$ or $S(O)_nR^{15}$; or C_1–C_6 alkyl, C_3–C_6 cycloalkyl, C_2–C_6 alkenyl or C_2–C_6 alkynyl, each unsubstituted or substituted with at least one R^x;

A^1 is CR^{9a} or N;

A^2 is CR^{9b} or N;

R^{6a} is H, halogen, cyano, nitro, $C(O)OR^{11}$, $C(O)NR^{12}R^{13}$, $C(O)R^{14}$, $NR^{12}R^{13}$, OR^{16}, $S(O)_nR^{15}$ or $SO_2NR^{12}R^{13}$; or C_1–C_6 alkyl, C_2–C_6 alkenyl, C_2–C_6 alkynyl, C_3–C_7 cycloalkyl or C_4–C_8 cycloalkylalkyl, each unsubstituted or substituted with at least one R^x;

R^{6b} is H, halogen, cyano, nitro, $C(O)OR^{11}$, $C(O)NR^{12}R^{13}$, $C(O)R^{14}$, $NR^{12}R^{13}$, OR^{16}, $S(O)_nR^{15}$ or $SO_2NR^{12}R^{13}$; or C_1–C_6 alkyl, C_2–C_6 alkenyl, C_2–C_6 alkynyl, C_3–C_7 cycloalkyl or C_4–C_8 cycloalkylalkyl, each unsubstituted or substituted with at least one R^x;

L is C_1–C_2 alkylenyl, unsubstituted or substituted with 1 or 2 C_1–C_3 alkyl;

R^7 is H, $C(O)OR^{11}$, $C(O)NR^{12}R^{13}$, $C(O)R^{14}$ or $S(O)_nR^{15}$; or C_1–C_6 alkyl, C_3–C_6 cycloalkyl, C_2–C_6 alkenyl or C_2–C_6 alkynyl, each unsubstituted or substituted with at least one R^x;

R^8 is H, $NR^{12}R^{13}$, OR^{16}, $S(O)_nR^{15}$ or $SO_2NR^{12}R^{13}$; or C_1–C_6 alkyl, C_2–C_6 alkenyl, C_2–C_6 alkynyl, C_3–C_7 cycloalkyl or C_4–C_8 cycloalkylalkyl, each unsubstituted or substituted with at least one R^x; or a phenyl, a 5- or 6-membered heterocyclic aromatic ring or a 3- to 7-membered heterocyclic non-aromatic ring, each ring containing ring members selected from carbon atoms and up to 2 heteroatoms independently selected from one oxygen atom, one sulfur atom, and up to 2 nitrogen atoms, wherein up to 2 carbon atom ring members are independently selected from C(=O) and C(=S) and the sulfur atom ring member is selected from S, S(O) or $S(O)_2$, each ring unsubstituted or substituted with at least one substituent independently selected from the group consisting of halogen, cyano, nitro, C_1–C_4 alkyl, C_3–C_6 cycloalkyl, C_1–C_4 haloalkyl, C_1–C_4 alkoxy, C_1–C_4 haloalkoxy, C_1–C_4 alkylthio, C_1–C_4 haloalkylthio, C_1–C_4 alkylsulfinyl, C_1–C_4 haloalkylsulfinyl, C_1–C_4 alkylsulfonyl, C_1–C_4 haloalkylsulfonyl, C_1–C_4 alkylcarbonyl or C_1–C_4 alkoxycarbonyl;

each R^x is independently halogen, cyano, nitro, hydroxy, C_1–C_6 alkyl, C_1–C_6 haloalkyl, C_3–C_6 cycloalkyl, C_1–C_6 alkoxy, C_1–C_6 haloalkoxy, $C(O)OR^{11}$, $C(O)NR^{12}R^{13}$, $NR^{12}R^{13}$, $C(O)R^{14}$, $S(O)_nR^{15}$ or $SO_2NR^{12}R^{13}$;

R^{9a} is H, halogen, cyano, nitro, $C(O)OR^{11}$, $C(O)NR^{12}R^{13}$, $C(O)R^{14}$, $NR^{12}R^{13}$, OR^{16}, $S(O)_nR^{15}$ or $SO_2NR^{12}R^{13}$; or C_1–C_6 alkyl, C_2–C_6 alkenyl, C_2–C_6 alkynyl, C_3–C_7 cycloalkyl or C_4–C_8 cycloalkylalkyl, each unsubstituted or substituted with at least one R^x;

R^{9b} is H, halogen, cyano, nitro, $C(O)OR^{11}$, $C(O)NR^{12}R^{13}$, $C(O)R^{14}$, $NR^{12}R^{13}$, OR^{16}, $S(O)_nR^{15}$ or $SO_2NR^{12}R^{13}$; or C_1–C_6 alkyl, C_2–C_6 alkenyl, C_2–C_6 alkynyl, C_3–C_7 cycloalkyl or C_4–C_8 cycloalkylalkyl, each unsubstituted or substituted with at least one R^x;

each R^{10} is independently halogen, cyano, nitro, $C(O)OR^{11}$, $C(O)NR^{12}R^{13}$, $C(O)R^{14}$, $NR^{12}R^{13}$, OR^{16}, $S(O)_nR^{15}$ or $SO_2NR^{12}R^{13}$; or C_1–C_6 alkyl, C_2–C_6 alkenyl, C_2–C_6 alkynyl, C_3–C_7 cycloalkyl or C_4–C_8 cycloalkylalkyl, each unsubstituted or substituted with at least one R^x; and when two R^{10} are attached to adjacent carbon atoms, said two R^{10} can be taken together with the carbon atoms to which they are attached to form a 3- to 7-membered ring containing ring members selected from carbon atoms and up to 2 heteroatoms independently selected from two oxygen

atoms, one sulfur atom, and up to 2 nitrogen atoms, wherein up to 2 carbon atom ring members are independently selected from C(=O) and C(=S) and the sulfur atom ring member is selected from S, S(O) or $S(O)_2$, said ring being unsubstituted or substituted with at least one substituent independently selected from the group consisting of halogen, cyano, nitro, C_1–C_4 alkyl, C_3–C_6 cycloalkyl, C_1–C_4 haloalkyl, C_1–C_4 alkoxy and C_1–C_4 haloalkoxy;

each R^{11} is independently C_1–C_4 alkyl, C_1–C_4 haloalkyl, C_3–C_6 cycloalkyl or C_3–C_6 halocycloalkyl; or phenyl, unsubstituted or substituted with at least one substituent independently selected from the group consisting of halogen, cyano, nitro, C_1–C_4 alkyl, C_3–C_6 cycloalkyl, C_1–C_4 haloalkyl, C_1–C_4 alkoxy, C_1–C_4 haloalkoxy, C_1–C_4 alkylthio, C_1–C_4 haloalkylthio, C_1–C_4 alkylsulfinyl, C_1–C_4 haloalkylsulfinyl, C_1–C_4 alkylsulfonyl, C_1–C_4 haloalkylsulfonyl, C_1–C_4 alkylcarbonyl or C_1–C_4 alkoxycarbonyl;

each R^{12} is independently H, C_1–C_6 alkyl, C_1–C_4 haloalkyl, $C(O)R^{17}$ or $S(O)_2R^{17}$; or phenyl or a 5- or 6-membered heterocyclic aromatic ring, each unsubstituted or substituted with at least one substituent independently selected from the group consisting of halogen, cyano, nitro, C_1–C_4 alkyl, C_3–C_6 cycloalkyl, C_1–C_4 haloalkyl, C_1–C_4 alkoxy, C_1–C_4 haloalkoxy, C_1–C_4 alkylthio, C_1–C_4 haloalkylthio, C_1–C_4 alkylsulfinyl, C_1–C_4 haloalkylsulfinyl, C_1–C_4 alkylsulfonyl, C_1–C_4 haloalkylsulfonyl, C_1–C_4 alkylcarbonyl or C_1–C_4 alkoxycarbonyl;

each R^{13} is independently H, C_1–C_6 alkyl or C_1–C_4 haloalkyl; or

R^{12} and R^{13} are taken together with the nitrogen atom to which they are attached to form a 3- to 7-membered ring containing ring members selected from carbon atoms and up to 2 heteroatoms independently selected from one oxygen atom, one sulfur atom, and up to 2 nitrogen atoms, wherein up to 2 carbon atom ring members are independently selected from C(=O) and C(=S) and the sulfur atom ring member is selected from S, S(O) or $S(O)_2$, said ring being unsubstituted or substituted with at least one substituent independently selected from the group consisting of halogen, cyano, nitro, C_1–C_4 alkyl, C_3–C_6 cycloalkyl, C_1–C_4 haloalkyl, C_1–C_4 alkoxy, C_1–C_4 haloalkoxy, C_1–C_4 alkylthio, C_1–C_4 haloalkylthio, C_1–C_4 alkylsulfinyl, C_1–C_4 haloalkylsulfinyl, C_1–C_4 alkylsulfonyl, C_1–C_4 haloalkylsulfonyl, C_1–C_4 alkylcarbonyl or C_1–C_4 alkoxycarbonyl;

each R^{14} is independently C_1–C_4 alkyl, C_1–C_4 haloalkyl, C_3–C_6 cycloalkyl or C_3–C_6 halocycloalkyl; or phenyl, unsubstituted or substituted with at least one substituent independently selected from the group consisting of halogen, cyano, nitro, C_1–C_4 alkyl, C_3–C_6 cycloalkyl, C_1–C_4 haloalkyl, C_1–C_4 alkoxy, C_1–C_4 haloalkoxy, C_1–C_4 alkylthio, C_1–C_4 haloalkylthio, C_1–C_4 alkylsulfinyl, C_1–C_4 haloalkylsulfinyl, C_1–C_4 alkylsulfonyl, C_1–C_4 haloalkylsulfonyl, C_1–C_4 alkylcarbonyl or C_1–C_4 alkoxycarbonyl;

each R^{15} is independently C_1–C_4 alkyl, C_1–C_4 haloalkyl, C_3–C_6 cycloalkyl or C_3–C_6 halocycloalkyl; or phenyl, unsubstituted or substituted with at least one substituent independently selected from the group consisting of halogen, cyano, nitro, C_1–C_4 alkyl, C_3–C_6 cycloalkyl, C_1–C_4 haloalkyl, C_1–C_4 alkoxy, C_1–C_4 haloalkoxy, C_1–C_4 alkylthio, C_1–C_4 haloalkylthio, C_1–C_4 alkylsulfinyl, C_1–C_4 haloalkylsulfinyl, C_1–C_4 alkylsulfonyl, C_1–C_4 haloalkylsulfonyl, C_1–C_4 alkylcarbonyl or C_1–C_4 alkoxycarbonyl;

each R^{16} is independently C_1–C_4 alkyl, C_1–C_4 haloalkyl, C_3–C_6 cycloalkyl or C_3–C_6 halocycloalkyl; or phenyl, unsubstituted or substituted with at least one substituent independently selected from the group consisting of halogen, cyano, nitro, C_1–C_4 alkyl, C_3–C_6 cycloalkyl, C_1–C_4 haloalkyl, C_1–C_4 alkoxy, C_1–C_4 haloalkoxy, C_1–C_4 alkylthio, C_1–C_4 haloalkylthio, C_1–C_4 alkylsulfinyl, C_1–C_4 haloalkylsulfinyl, C_1–C_4 alkylsulfonyl, C_1–C_4 haloalkylsulfonyl, C_1–C_4 alkylcarbonyl or C_1–C_4 alkoxycarbonyl;

each R^{17} is independently C_1–C_4 alkyl, C_1–C_4 haloalkyl, C_3–C_6 cycloalkyl or C_3–C_6 halocycloalkyl; and

each n is independently 0, 1 or 2.

2. The compound of Claim 1 wherein:

R^3 and R^4 are H;

X and Y are O;

R^5 is H; and

R^7 is H.

3. The compound of Claim 1 or 2 wherein:

R^1 is F, Cl or Br;

R^2 is F, Cl or Br;

Q is phenyl, unsubstituted or substituted with 1 to 3 R^{10};
A^1 is CR^{9a};
A^2 is CR^{9b};
R^{6a} is H;
R^{6b} is H;
R^{9a} is H or halogen; and
R^{9b} is halogen, cyano or C_1–C_6 alkyl.

4. The compound of any one of claims 1-3 wherein:
R^1 is F or Cl;
R^2 is F or Cl;
L is -CH_2-;
R^{9a} is H or F; and
R^{9b} is F or Cl.

5. The compound of any one of claims 1-4 wherein:
R^1 is Cl;
R^2 is Cl; and
R^{9a} is H.

6. The compound of any one of claims 1-5 wherein:
Q is phenyl, substituted with 1 to 3 R^{10}; and
R^{10} is halogen or C_1-C_6 alkyl substituted with at least one R^x; and R^x is Cl or F.

7. The compound of any one of claims 1-6 wherein:
R^8 is -CH_2CF_3, -CF_3, or cyclopropyl.

8. The compound of any one of claims 1-7 wherein:
R^1 is Cl;
R^2 is Cl;
R^3 and R^4 are H;
X and Y are O;

R^5 is H;

R^7 is H;

R^8 is $-CH_2CF_3$, $-CF_3$, or cyclopropyl;

Q is phenyl, substituted with 1 to 3 R^{10}; and

R^{10} is halogen or C_1-C_6 alkyl substituted with at least one R^x; and R^x is Cl or F.

9. The compound of Claim 1 wherein said compound is selected from 2,2-dichloro-3-(3,4-dichlorophenyl)-N-[4-fluoro-3-[[(3,3,3-trifluoro-1-oxopropyl)amino]methyl]phenyl]cyclopropanecarboxa-mide (Compound 79), 2,2-dichloro-N-[4-chloro-3-[[(2,2,2-trifluoroacetyl)amino]methyl]phenyl]-3-(3,4-dichlorophenyl)cyclopropanecarboxamide (Compound 175), 2,2-dichloro-3-[4-fluoro-3-(trifuoromethyl)phenyl]-N-[4-fluoro-3-[[(3,3,3-trifluoro-1-oxopropyl)amino]methyl]phenyl]cyclopropanecarboxamide (Compound 78), 2,2-dichloro-N-[3-[[(cyclopropylcarbonyl)amino]methyl]-4-fluorophenyl]-3-[4-fluoro-3-(trifluoromethyl)phenyl]cyclopropanecarboxamide (Compound 77), 2,2-dichloro-3-(3-chloro-4-fluorophenyl)-N-[2,4-difluoro-3-[[(3,3,3-trifluoro-1-oxopropyl)amino]methyl]phenyl]cyclopropanecarboxamide (Compound 170), 2,2-dichloro-3-(4-chloro-3,5-difluorophenyl)-N-[4-fluoro-3-[[(3,3,3-trifluoro-1-oxopropyl)amino]methyl]phenyl]cyclopropanecarboxamide (Compound 169), 2,2-dichloro-3-(3-chloro-4-fluorophenyl)-N-[3-[[(cyclopropylcarbonyl)amino]methyl]-2,4-difluorophenyl]cyclopropanecarboxamide (Compound 164), 2,2-dichloro-3-(3-chloro-4-fluorophenyl)-N-[4-chloro-3-[[(2,2,2-trifluoroacetyl)amino]methyl]phenyl]cyclopropanecarboxamide (Compound 19), 2,2-dichloro-N-[4-chloro-3-[[(3,3,3-trifluoro-1-oxopropyl)amino]methyl]phenyl]-3-[4-fluoro-3-(trifluoromethyl)phenyl]cyclopropanecarboxamide (Compound 116), 2,2-dichloro-N-[4-chloro-3-[[(cyclopropylcarbonyl)amino]methyl]phenyl]-3-[4-fluoro-3-(trifluoromethyl)phenyl]cyclopropanecarboxamide (Compound 39), 2,2-dichloro-3-(3-chloro-5-fluorophenyl)-N-[4-fluoro-3-[[(3,3,3-trifluoro-1-oxopropyl)amino]methyl]phenyl] cyclopropanecarboxamide (Compound 129), 2,2-dichloro-N-[4-chloro-3-[[(2,2,2-trifluoroacetyl)amino]methyl]phenyl]-3-[4-fluoro-3-(trifluoromethyl)phenyl]cyclopropanecarboxamide (Compound 174), 2,2-dichloro-N-[4-chloro-3-[[(3,3,3-trifluoro-1-oxopropyl)amino]methyl]phenyl]-3-(3,4,5-trifluorophenyl)cyclopropanecarboxamide (Compound 118), 2,2-dichloro-3-(3-chloro-4-fluorophenyl)-N-[4-fluoro-3-[[(3,3,3-trifluoro-1-oxopropyl)amino]methyl]phenyl]cyclopropanecarboxamide (Compound 219), and 3-[3,5-

Bis(trifluoromethyl)phenyl]-2,2-dichloro-N-[4-fluoro-3-[[(3,3,3-trifluoro-1-oxopropyl)amino]methyl]phenyl]cyclopropanecarboxamide (Compound 220).

10. A composition comprising a compound of any one of claims 1-9 and at least one additional component selected from the group consisting of surfactants, solid diluents and liquid diluents, said composition optionally further comprising at least one additional biologically active compound or agent.

11. The composition of Claim 10 wherein the at least one additional biologically active compound or agent is selected from abamectin, acephate, acequinocyl, acetamiprid, acrinathrin, acynonapyr, afidopyropen ([(3*S*,4*R*,4a*R*,6*S*,6a*S*,12*R*,12a*S*,12b*S*)-3-[(cyclopropylcarbonyl)oxy]-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3-pyridinyl)-2*H*,11*H*-naphtho[2,1-*b*]pyrano[3,4-*e*]pyran-4-yl]methyl cyclopropanecarboxylate), amidoflumet, amitraz, avermectin, azadirachtin, azinphos-methyl, benfuracarb, bensultap, benzpyrimoxan, bifenthrin, kappa-bifenthrin, bifenazate, bistrifluron, borate, broflanilide, bromoantraniliprole, buprofezin, cadusafos, carbaryl, carbofuran, cartap, carzol, chlorantraniliprole, chlorfenapyr, chlorfluazuron, chloroprallethrin, chlorpyrifos, chlorpyrifos-e, chlorpyrifos-methyl, chromafenozide, clofentezin, chloroprallethrin, clothianidin, cyantraniliprole, (3-bromo-1-(3-chloro-2-pyridinyl)-*N*-[4-cyano-2-methyl-6-[(methylamino)carbonyl]phenyl]-1*H*-pyrazole-5-carboxamide), cyclaniliprole (3-bromo-*N*-[2-bromo-4-chloro-6-[[(1-cyclopropylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-1*H*-pyrazole-5-carboxamide), cycloprothrin, cycloxaprid ((5*S*,8*R*)-1-[(6-chloro-3-pyridinyl)methyl]-2,3,5,6,7,8-hexahydro-9-nitro-5,8-Epoxy-1*H*-imidazo[1,2-*a*]azepine), cyenopyrafen, cyflumetofen, cyfluthrin, beta-cyfluthrin, cyhalodiamide, cyhalothrin, gamma-cyhalothrin, lambda-cyhalothrin, cypermethrin, alpha-cypermethrin, zeta-cypermethrin, cyromazine, deltamethrin, diafenthiuron, diazinon, dicloromezotiaz, dichlorantraniliporle, dieldrin, diflubenzuron, dimefluthrin, dimehypo, dimethoate, dimpropyridaz, dinotefuran, diofenolan, emamectin, emamectin benzoate, endosulfan, esfenvalerate, ethiprole, etofenprox, epsilon-metofluthrin, etoxazole, fenbutatin oxide, fenitrothion, fenothiocarb, fenoxycarb, fenpropathrin, fenvalerate, fipronil, flometoquin (2-ethyl-3,7-dimethyl-6-[4-(trifluoromethoxy)phenoxy]-4-quinolinyl methyl carbonate), flonicamid, fluazaindolizine, flubendiamide, flucythrinate, flufenerim, flufenoxuron, flufenoxystrobin (methyl (α*E*)-2-[[2-chloro-4-(trifluoromethyl)phenoxy]methyl]-α-(methoxymethylene)benzeneacetate), fluensulfone (5-chloro-2-[(3,4,4-trifluoro-3-buten-1-yl)sulfonyl]thiazole), fluhexafon,

fluopyram, flupiprole (1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-5-[(2-methyl-2-propen-1-yl)amino]-4-[(trifluoromethyl)sulfinyl]-1*H*-pyrazole-3-carbonitrile), flupyradifurone (4-[[(6-chloro-3-pyridinyl)methyl](2,2-difluoroethyl)amino]-2(5*H*)-furanone), flupyrimin, fluvalinate, tau-fluvalinate, fluxametamide, fonophos, formetanate, fosthiazate, gamma-cyhalothrin, halofenozide, heptafluthrin ([2,3,5,6-tetrafluoro-4-(methoxymethyl)phenyl]methyl 2,2-dimethyl-3-[(1*Z*)-3,3,3-trifluoro-1-propen-1-yl]cyclopropanecarboxylate), hexaflumuron, hexythiazox, hydramethylnon, imidacloprid, indoxacarb, insecticidal soaps, isofenphos, isocycloseram, kappa-tefluthrin, lambda-cyhalothrin, lufenuron, malathion, meperfluthrin ([2,3,5,6-tetrafluoro-4-(methoxymethyl)phenyl]methyl (1*R*,3*S*)-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate), metaflumizone, metaldehyde, methamidophos, methidathion, methiocarb, methomyl, methoprene, methoxychlor, metofluthrin, methoxyfenozide, epsilon-metofluthrin, epsilon-momfluorothrin, monocrotophos, monofluorothrin ([2,3,5,6-tetrafluoro-4-(methoxymethyl)phenyl]methyl 3-(2-cyano-1-propen-1-yl)-2,2-dimethylcyclopropanecarboxylate), nicotine, nitenpyram, nithiazine, novaluron, noviflumuron, oxamyl, oxazosulfyl, parathion, parathion-methyl, permethrin, phorate, phosalone, phosmet, phosphamidon, pirimicarb, profenofos, profluthrin, propargite, protrifenbute, pyflubumide (1,3,5-trimethyl-*N*-(2-methyl-1-oxopropyl)-*N*-[3-(2-methylpropyl)-4-[2,2,2-trifluoro-1-methoxy-1-(trifluoromethyl)ethyl]phenyl]-1*H*-pyrazole-4-carboxamide), pymetrozine, pyrafluprole, pyrethrin, pyridaben, pyridalyl, pyrifluquinazon, pyriminostrobin (methyl (α*E*)-2-[[[2-[(2,4-dichlorophenyl)amino]-6-(trifluoromethyl)-4-pyrimidinyl]oxy]methyl]-α-(methoxymethylene)benzeneacetate), pydiflumetofen, pyriprole, pyriproxyfen, rotenone, ryanodine, silafluofen, spinetoram, spinosad, spirodiclofen, spiromesifen, spiropidion, spirotetramat, sulprofos, sulfoxaflor (*N*-[methyloxido[1-[6-(trifluoromethyl)-3-pyridinyl]ethyl]-λ^4-sulfanylidene]cyanamide), tebufenozide, tebufenpyrad, teflubenzuron, tefluthrin, kappa-tefluthrin, terbufos, tetrachlorantraniliprole, tetraniliprole, tetrachlorvinphos, tetramethrin, tetramethylfluthrin ([2,3,5,6-tetrafluoro-4-(methoxymethyl)phenyl]methyl 2,2,3,3-tetramethylcyclopropanecarboxylate), tetraniliprole, thiacloprid, thiamethoxam, thiodicarb, thiosultap-sodium, tioxazafen (3-phenyl-5-(2-thienyl)-1,2,4-oxadiazole), tolfenpyrad, tralomethrin, triazamate, trichlorfon, triflumezopyrim (2,4-dioxo-1-(5-pyrimidinylmethyl)-3-[3-(trifluoromethyl)phenyl]-2*H*-pyrido[1,2-*a*]pyrimidinium inner salt), triflumuron, tyclopyrazoflor, zeta-cypermethrin, *Bacillus thuringiensis* delta-endotoxins, entomopathogenic bacteria, entomopathogenic viruses, and entomopathogenic fungi.

12. The composition of Claim 11 wherein the at least one additional biologically active compound or agent is selected from the group consisting of abamectin, acetamiprid, acrinathrin, afidopyropen, amitraz, avermectin, azadirachtin, benfuracarb, bensultap, bifenthrin, buprofezin, carbaryl, cartap, chlorantraniliprole, chlorfenapyr, chlorpyrifos, clothianidin, cyantraniliprole, cyclaniliprole, cycloprothrin, cyfluthrin, beta-cyfluthrin, cyhalothrin, gamma-cyhalothrin, lambda-cyhalothrin, cypermethrin, alpha-cypermethrin, zeta-cypermethrin, cyromazine, deltamethrin, dieldrin, dinotefuran, diofenolan, emamectin, endosulfan, esfenvalerate, ethiprole, etofenprox, etoxazole, fenitrothion, fenothiocarb, fenoxycarb, fenvalerate, fipronil, flometoquin, flonicamid, flubendiamide, flufenoxuron, flufenoxystrobin, fluensulfone, flupiprole, flupyradifurone, fluvalinate, formetanate, fosthiazate, heptafluthrin, hexaflumuron, hydramethylnon, imidacloprid, indoxacarb, lufenuron, meperfluthrin, metaflumizone, methiocarb, methomyl, methoprene, methoxyfenozide, metofluthrin, monofluorothrin, nitenpyram, nithiazine, novaluron, oxamyl, pyflubumide, pymetrozine, pyrethrin, pyridaben, pyridalyl, pyriminostrobin, pyriproxyfen, ryanodine, spinetoram, spinosad, spirodiclofen, spiromesifen, spirotetramat, sulfoxaflor, tebufenozide, tetramethrin, tetramethylfluthrin, thiacloprid, thiamethoxam, thiodicarb, thiosultap-sodium, tralomethrin, triazamate, triflumezopyrim, triflumuron, *Bacillus thuringiensis* delta-endotoxins, all strains of *Bacillus thuringiensis* and all strains of nuclear polyhedrosis viruses.

13. The composition of any one of claims 10-12 further comprising a liquid fertilizer.

14. The composition of claim 13 wherein the liquid fertilizer is aqueous-based.

15. The composition of any one claims 10-14 for use in a drip irrigation system, furrow during planting, handheld sprayer, backpack sprayer, boom sprayer, ground sprayer, aerial application, unmanned aerial vehicle, or a seed treatment.

16. The composition of claim 15 wherein said composition is sprayed at an ultra-low volume.

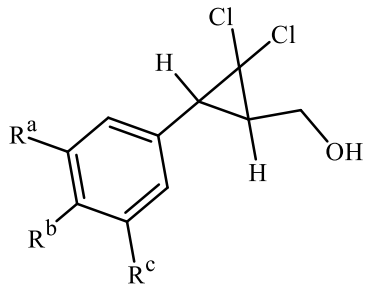
17. A composition for protecting an animal from an invertebrate parasitic pest comprising a parasiticidally effective amount of a compound of Claim 1 and at least one carrier.

18. A method for controlling an invertebrate pest comprising contacting the invertebrate pest or its environment with a biologically effective amount of a compound of Claim 1, provided that the method is not method of medical treatment of a human or animal body by therapy.

19. The method of claim 18 wherein the environment is soil or plant foliage.

20. A treated seed comprising a compound of Claim 1 in an amount of from about 0.0001 to 1 % by weight of the seed before treatment.

21. An intermediate compound selected from Formula **I-1**, *N*-oxides and salts thereof, used for preparing the compound of Formula **1** according to Claim 1,



I-1

wherein

R^a is H, F, Cl, Br or CF_3;

R^b is H, F, Cl or CF_3; and

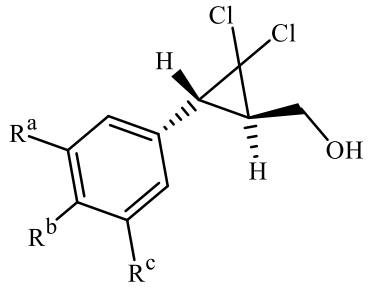
R^c is H, Cl or CF_3.

22. The intermediate compound of Claim 21 which is selected from the group:

the intermediate compound of Formula I-1 wherein R^a is Cl, R^b is H, and R^c is Cl;
the intermediate compound of Formula I-1 wherein R^a is Cl, R^b is F, and R^c is Cl;
the intermediate compound of Formula I-1 wherein R^a is F, R^b is F, and R^c is F;
the intermediate compound of Formula I-1 wherein R^a is F, R^b is F, and R^c is H;
the intermediate compound of Formula I-1 wherein R^a is Cl, R^b is Cl, and R^c is H;
the intermediate compound of Formula I-1 wherein R^a is F, R^b is Cl, and R^c is H;

the intermediate compound of Formula I-1 wherein R^a is Cl, R^b is F, and R^c is H;
the intermediate compound of Formula I-1 wherein R^a is CF_3, R^b is F, and R^c is H;
the intermediate compound of Formula I-1 wherein R^a is F, R^b is CF_3, and R^c is H;
the intermediate compound of Formula I-1 wherein R^a is CF_3, R^b is Cl, and R^c is H;
the intermediate compound of Formula I-1 wherein R^a is Cl, R^b is CF_3, and R^c is H;
the intermediate compound of Formula I-1 wherein R^a is H, R^b is F, and R^c is H;
the intermediate compound of Formula I-1 wherein R^a is H, R^b is Cl, and R^c is H;
the intermediate compound of Formula I-1 wherein R^a is H, R^b is CF_3, and R^c is H;
the intermediate compound of Formula I-1 wherein R^a is Cl, R^b is Cl, and R^c is Cl;
the intermediate compound of Formula I-1 wherein R^a is Cl, R^b is H, and R^c is CF_3; and
the intermediate compound of Formula I-1 wherein R^a is Br, R^b is F, and R^c is H.

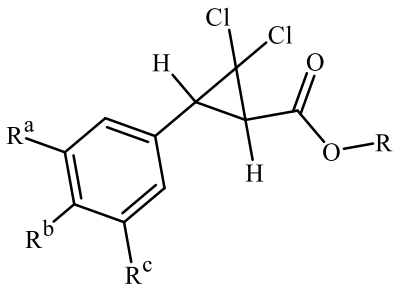
23. The intermediate compound of Claim 21 or Claim 22 wherein the intermediate compound of Formula **I-1** is an intermediate compound of Formula **I-1a**,



I-1a

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24. An intermediate compound selected from Formula **I-2**, N-oxides and salts thereof, used for preparing the compound of Formula **1** according to Claim 1,



I-2

wherein

R is methyl or ethyl;

R^a is H, F, Cl, Br or CF_3;

R^b is H, F, Cl or CF_3; and

R^c is H, Cl or CF_3.

25. The intermediate compound of Claim 24 which is selected from the group:

the intermediate compound of Formula I-2 wherein R is methyl; R^a is Cl, R^b is H, and R^c is Cl;

the intermediate compound of Formula I-2 wherein R is methyl; R^a is Cl, R^b is F, and R^c is Cl;

the intermediate compound of Formula I-2 wherein R is methyl; R^a is F, R^b is F, and R^c is F;

the intermediate compound of Formula I-2 wherein R is methyl; R^a is F, R^b is F, and R^c is H;

the intermediate compound of Formula I-2 wherein R is methyl; R^a is Cl, R^b is Cl, and R^c is H;

the intermediate compound of Formula I-2 wherein R is methyl; R^a is F, R^b is Cl, and R^c is H;

the intermediate compound of Formula I-2 wherein R is methyl; R^a is Cl, R^b is F, and R^c is H;

the intermediate compound of Formula I-2 wherein R is methyl; R^a is CF_3, R^b is F, and R^c is H;

the intermediate compound of Formula I-2 wherein R is methyl; R^a is F, R^b is CF_3, and R^c is H;

the intermediate compound of Formula I-2 wherein R is methyl; R^a is CF_3, R^b is Cl, and R^c is H;

the intermediate compound of Formula I-2 wherein R is methyl; R^a is Cl, R^b is CF_3, and R^c is H;

the intermediate compound of Formula I-2 wherein R is methyl; R^a is H, R^b is F, and R^c is H;

the intermediate compound of Formula I-2 wherein R is methyl; R^a is H, R^b is Cl, and R^c is H;

the intermediate compound of Formula I-2 wherein R is methyl; R^a is H, R^b is CF_3, and R^c is H;

the intermediate compound of Formula I-2 wherein R is methyl; R^a is Cl, R^b is Cl, and R^c is Cl;

the intermediate compound of Formula I-2 wherein R is methyl; R^a is Cl, R^b is H, and R^c is CF_3;

the intermediate compound of Formula I-2 wherein R is methyl; R^a is Br, R^b is F, and R^c is H;

the intermediate compound of Formula I-2 wherein R is ethyl; R^a is Cl, R^b is H, and R^c is Cl;

the intermediate compound of Formula I-2 wherein R is ethyl; R^a is Cl, R^b is F, and R^c is Cl;

the intermediate compound of Formula I-2 wherein R is ethyl; R^a is F, R^b is F, and R^c is F;

the intermediate compound of Formula I-2 wherein R is ethyl; R^a is F, R^b is F, and R^c is H;

the intermediate compound of Formula I-2 wherein R is ethyl; R^a is Cl, R^b is Cl, and R^c is H;

the intermediate compound of Formula I-2 wherein R is ethyl; R^a is F, R^b is Cl, and R^c is H;

the intermediate compound of Formula I-2 wherein R is ethyl; R^a is Cl, R^b is F, and R^c is H;

the intermediate compound of Formula I-2 wherein R is ethyl; R^a is CF_3, R^b is F, and R^c is H;

the intermediate compound of Formula I-2 wherein R is ethyl; R^a is F, R^b is CF_3, and R^c is H;

the intermediate compound of Formula I-2 wherein R is ethyl; R^a is CF_3, R^b is Cl, and R^c is H;

the intermediate compound of Formula I-2 wherein R is ethyl; R^a is Cl, R^b is CF_3, and R^c is H;

the intermediate compound of Formula I-2 wherein R is ethyl; R^a is H, R^b is F, and R^c is H;

the intermediate compound of Formula I-2 wherein R is ethyl; R^a is H, R^b is Cl, and R^c is H;

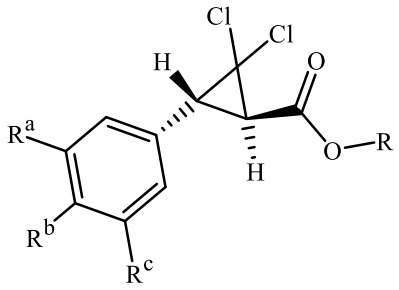
the intermediate compound of Formula I-2 wherein R is ethyl; R^a is H, R^b is CF_3, and R^c is H;

the intermediate compound of Formula I-2 wherein R is ethyl; R^a is Cl, R^b is Cl, and R^c is Cl;

the intermediate compound of Formula I-2 wherein R is ethyl; R^a is Cl, R^b is H, and R^c is CF_3; and

the intermediate compound of Formula I-2 wherein R is ethyl; R^a is Br, R^b is F, and R^c is H.

26. The intermediate compound of Claim 24 or Claim 25 wherein the intermediate compound of Formula **I-2** is an intermediate compound of Formula **I-2a**,



I-2a

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