

Effet des pesticides sur les bourdons Side effect of pesticides on bumblebees Efectos secundarios sobre abejorros



Février / February / Febrero 2013

Matières actives Active ingredient Materia activa	Produits commerciaux Trade names Marca comercial	Effet sur les bourdons Effect on bumblebees Efecto sobre abejorros	Persistence (jours) Persistencia (days)
abamectin	Vertimec	↗	1½
acephate	Orthene, Torpedo	?	?
acetamiprid	Mospilan, Epik, Gazel	↗	2
acequinocyl	Cantack	↗	1
acrinathrin	Orytis, Rufast	↗	2
aldicarb	Sanacarb	✘	15
alpha cypermethrin	Alcance, Doktor, Etifax, Fastac	✘	15
amitraz (*1/*3)	Amitraz, Mitac	↗	0
azadirachtin	Align, Azadiractin-32, Azatin, Neemix	↗	0
azinphos-methyl	Gusathion	↗	30
azocyclotin	Perupal	✘	1½
azoxystrobin	Ortiva	↗	0
Bacillus thuringiensis var. kurstaki	Dipel, Bactospéine, Larvo, Bactura	↗	0
Bacillus thuringiensis var. tenebrionis	Novodor	↗	0
Beauveria bassiana	Naturalis, Botanigard	↗	0
benalaxyl	Tairel	↗	2
bendiocarb	Garvox, Multamat	✘	?
benfuracarb	Furacon, Lonco, Nakar, Oncol	✘	20
benomyl (*1)	Benlate, Pilarben	↗	0
benomyl (*2)		○	0
benzoximate	Aazomate, Artaban	↗	0
beta-cyfluthrin	Bulldock	✘	15

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hexaflumuron	Consol, Consult	↗	1½
hexythiazox	Cesar, Nissorun	↗	0
hymexazole	Tachigaren	↗	0
imazail	Fungaffor	↗	0
imidacloprid (*1/*2)	Confidor	✘	?
indoxacarb	Avaunt, Steward	↗	3
iprodione (*1)	Rovral, Parmex, Ippon	↗	0
iprodione (*2)		○	0
kasugamicin	Kasumin	↗	0
kinoprene	Enstar II	↗	1½
kresoxim-methyl	Stroby, Kenbyo	↗	0
lambda-cyhalothrin	Icon, Karate	↗	15
lindane	Lindaan, Lindan	✘	?
lufenuron	Match	↗	2-3
malathion	Malathion	✘	14
mancozeb	Dithane M45, Mancopec	↗	0
maneb (*1)	Dithane M22, Maneor, Prenalite	↗	0
maneb (*2)		○	0
maneb (*4)		○	0
mepanipyrin	Frupica	↗	0
metaflumizone	Alverde	↗	1-2
metalaxyl	Ridomil, Milor	↗	0
metalaxyl + mancozeb	Ridomil MZ58, Ridomil TK	↗	0
metalddehyde	Cekumeta, Caralol	↗	0
metam-sodium	Vapam	↗	0
methamidophos	Tamaron	✘	21
methidathion	Ultradid	✘	30

bifenazate	Floramite	○	0
bifenthrin	Capture, Talstar	✘	7
bioresmethrin	Isathrin	↗	2
bitertanol	Baycor, Sibutol	↗	0
boscalid + krexoxim-methyl	Collis	↗	0
brodifacoum	Klerat	↗	0
bromophos methyl	Nexion	✘	?
bromopropylate	Acaril, Neoron	↗	0
bromuconazole	Granit, Vectra	↗	0
bupirimate	Nimrod	↗	0
buprofezin	Applaud	↗	0
butocarbixim	Darwin 755	↗	0
cadusafos (*2)	Rugby, Apache	↗	2
calcium cyanide	Calcid	↗	1½
captan	Agrocaptan, Merjan, Captan	↗	0
carbaryl	Carbamec, Sevin	↗	1½
carbendazim	Alcodazim, Bavistin, Derosal	↗	½
carbofuran	Curater, Furadan, Garrot, Furacarb	✘	30
carbosulfan	Marshal	✘	30
chinomethionat	Morestan	↗	0
chlorfenapyr		✘	30
chlorfenvinphos	Apachlor, Birlane	↗	1½
chlorfluazuron	Atabron, Helix	↗	1½
chlorobenzilate	Acaraben, Benzilan	↗	½
chlorothalonil (*1/*5)	Bravo, Daconil, Pugil, Chlortosp	↗	0
chlorpyrifos-ethyl	Agromil, Dursban, Polmix, Grosso	✘	20
chlorpyrifos-methyl	Reldan	✘	20
cletodim	Centurion	↗	1
clofentezine	Apollo	↗	0
copper ammonia sulphate		↗	0
copper ammonium carbonate		↗	2
copper calcium sulphate	Bordeaux Mixture	↗	0
copper calcium oxychloride	Cupravit Azul	↗	0
copper hydroxide	Cuproxyde, Kocide	↗	2
copper oxyde		↗	0
copper oxychloride	Copper, Afrocobre	↗	0
copper sulphate	Alguinet	↗	0
cyazofamid	Ranman	↗	0
cyflumetofen	Scelta	↗	0
cyfluthrin	Baythroid	✘	20
cyhexatin	Pennstyl, Akabar	↗	½
cymoxanil	Almanach, Cobersuper, Curzate	↗	0
cypermethrin	Cymbush, Arrivo, Cibelte, Ripcord, Fury	✘	15
cyphenothrin		↗	0
cyproconazole	Atemi, Caddy, Alto, Avenir	↗	0
cyromazine (*1)	Trigard	↗	½
cyromazine (*2)		○	0
deltamethrin	Decis, Sadethrin	↗	2
diafenthiuron	Pegasus, Polo	↗	½
diazinon	Basudine	✘	30
dichlofluanid (*1/*4)	Euparene	↗	0
dichlorvos (*1/*3)	DDVP, General Vap	↗	1½
dicofol	Acarin, Kelthane	↗	0
dicofol + tetradifon	Childion, Fenilan	↗	0
dienochlor	Pentac	✘	15
difenoconazole	Dividend, Score	↗	0
diflubenzuron	Arbofog, Dimlin	↗	?
dimethoate	Perfekthion, Rogor	✘	?
dimethomorph	Paraat, Acrobat	↗	1
dinobuton	Acrex	↗	½
dinocap	Karathane, Agrocacp	↗	½
dinotefuran	Safari, Venom	✘	14
diofenolan	Aware, Context	↗	0
dithianon	Cluster, Delan	↗	0
dodemorph	Meltatox	↗	0
dodine	Sulgen, Motedin	↗	2
emamectin	Afirm	↗	1
endosulfan	Thiodan, Thiordax	✘	14
esfenvalerate	Sumicidin Super, Sumialfa	✘	15

methiocarb	Mesuroil	✘	30
methomyl	Lannate, Nudrin, Tomilo	↗	3
methoprene	Altosid, Apex	↗	0
methoxyfenozide	Runner	↗	0
metiram	Polyram, Botrizol, Ronilan combi	↗	0
metribuzin	Sencor, Lexone, Eclipse	↗	0
mevinphos	Phosdrin	↗	1½
milbectin	Milbeknock	↗	3
mineral oil	-----	↗	1
monocrotophos	Nuvacron	✘	?
myclobutanil	Systhane	↗	0
naled (*1)	Bromex, Dibrom	↗	2
naled (*5)		✘	?
nicotine (*1)	No Fid	↗	1
nicotine (*5)		↗	½
novaluron	Rimon, Pedestal	↗	3
nuarimol	Trimidol	↗	0
omethoate	Folimat	↗	?
oxadixyl + cymoxanil + mancozeb	Pulsan, Sandocur	↗	0
oxamyl (*1)	Oxamyl, Vydate	✘	10
oxamyl (*2)		↗	0
oxy-demeton-methyl	Metasystox-R	↗	?
oxycarboxin	Plantvax	↗	0
oxyfluorfen	Goal, Dribbling, Fluoxil	↗	0
Paecilomyces fumosoroseus	PreFeRal WG	↗	0
parathion	Folidol	✘	14
parathion-methyl	Folidol-M	✘	?
penconazole	Topas, Ophir	↗	0
pencycuron	Trotis	↗	0
pendimethalin	Stomp, Bitram, Herbel	↗	0
permethrin	Ambush, Pounce	↗	9
petroleum oil / mineral oil	-----	↗	0
phosalone	Zolone, Rubitox	↗	1
phosphamidon	Dimecron	↗	?
phosphoric soap	Fosforte	↗	0
pirimicarb (*1)	Aphox, Tomba, Strifox,	↗	1
pirimicarb (*5)	Pirimor	↗	1
pirimiphos-methyl	Actellic	✘	?
potassium bicarbonate	Milstop	↗	0
potassium salts of fatty acids	Biosoap, Savona	↗	0
procymidone	Kenolex, Sumislex	↗	0
profenofos	Curacron, Selecron	✘	?
propamocarb-HCL (*1/*2)	Prévicur, Precur, Proplant	↗	0
propaquizafop	Agil	↗	0
propargite	Aspargite, Omite, Zetos, Retador	↗	0
propiconazole	Tilt, Bumper	↗	0
propineb	Antracol	↗	0
propoxur	Undeen	✘	?
propoxur + methoxychlor	Pallicap, Propotox M	✘	?
pymetrozine	Chess, Plenum	↗	0
pyraclostrobin + boscalid	Signum	↗	0
pyrazophos	Afugan, Curamil	↗	1½
pyrethrins + pyrethrin	Pyrethruspray,	↗	1½
pyrethrins + resmethrin	Spruzit	↗	0
pyridaben (*1)	Pynosect 30	↗	1½
pyridaben (*3)	Sanmite, Nexter	↗	1
pyridalyl	Nocturn, Pleo, Sumipleo	↗	0
pyrifenoxy	Dorado, Felin	↗	0
pyrimethanil	Mythos, Scala	↗	0
pyriproxyfen	Admiral, Atominal, Juvinal	↗	0
quinalofop-ethyl	Targa, MasterD, Nervure	↗	0
rape seed oil	-----	↗	0
resmethrin	Pynosect	↗	½
rimsulfuron	Titus	↗	0
rotenone	Chem sect, Cuberol	↗	½
rynaxypyr	Altacor, Coragen	↗	0
sodium tetrathiocarbonate	Enzone	↗	0
spinosad (*1)	Tracer, Spintor	↗	2
spinosad (*2)		↗	1
spiroticlofen	Envidor	✘	7
spiromesifen	Oberon	↗	0
spirotriamet	Movento	↗	1
Steinernema carpocapsae	Capsanem	↗	0

ethephon	Ethrel-a	↗	0
ethiofencarb	Croneton	↗	1½
ethirimol	Milgo	↗	0
etofenprox	Sensor, Trebon	↗	3
etoprophos	Mocap	↗	0 - 5
etoxazole	Borneo, Baroque, Tetrasan	↗	3
etridiazole	Terrazole, Aaterra	↗	4
etrimfos	Ekamet, Satisfar	✘	?
fenamiphos	Nemacur	✘	30
fenarimol	Rubigan, Rimidin, Transflo	↗	0
fenazaquin	Magister	↗	½
fenbuconazole	Indar	↗	0
fenbutatin oxide	Norvan, Torque, Partner	↗	½
fenhexamid	Teldor	↗	0
fenitrothion	Fentron, Folithion	✘	?
fenoxycarb	Insegar, Precision	↗	0
fenpropathrin	Kilumal, Meothrin	✘	7
fenpropimorph	Corbel	↗	0
fenpyroximate	Flash	↗	0
fenvalerate	Fenval, Sumicidin	✘	?
fipronil	Violin, Regent	✘	?
flonicamid	Aria, Beleaf, Teppeki	↗	0
flubendiamide	Belt, Fame, Fenos	↗	0
flucycloxuron	Andalin	↗	3
flucythrinate	Cybolt	✘	?
fluidioxonil+cyprodinyl	Switch	↗	0
flufenoxuron	Cascade	↗	3
flusilazole	Capitan, Punch	↗	0
flutriafol	Impact	↗	0
folpet	Belpron, Agrofolpet, Phaltan, Folspan	↗	0
formetanate	Carzol, Dicarzol	✘	4
formothion	Anthio	✘	?
fosetyl-aluminium	Aliette	↗	1½
furalaxyl	Ofurace	↗	0
heptenophos	Hostaquick	↗	1½
hexaconazole	Anvil, Siroco	↗	0

sulfotep (*5)	Bladafum	✘	?
sulphur (*1)	Kumulus, Thiovit	↗	1½
sulphur (*4)		↗	0
sulphur (*5)		↗	0
summer oil	Ultrafine	↗	0
tau-fluvalinate	Klartan, Mavrik	↗	0
tebuconazole	Folicur, Horizol, Folicur combi	↗	2
tebufenozide	Confim, Mimic	↗	0
tebufenpyrad	Masai, Pyranica, Comanche	↗	½
teflubenzuron	Dart, Nomolt	✘	14
tetrachlorvinphos	Debantic, Gardona	↗	?
tetraconazole	Arpege, Domark	↗	1
tetradifon	Tedion	↗	0
thiacloprid (*1)	Calypso	↗	1-2
thiacloprid (*2)		↗	1
thiamethoxam (*1/*2)	Actara	✘	15
thiocyclam	Evisect	↗	0
thiometon	Ekatin, Thiometon	↗	1½
thiophanate-methyl	Topsin, Pelt 44	↗	0
thiram (*1/*4)	Agrotiram, Thiram, TMTD	↗	0
tolylfluanid	Euparene M	↗	0
triadimefon	Bayleton	↗	0
triadimenol	Bayfidan, Exact	↗	0
triazamate	Aphistar, Aztec	↗	0
triazophos	Hostathion, Spark	✘	?
trichlorfon	Callifon, Dipterex	✘	?
trifloxystrobin	Triatum-P	↗	0
trifloxystrobin	Flint, Escolta	↗	0
triflumizole	Rocket, Arradar	↗	0
triforine	Saprol, Funginex	↗	?
vamidothion	Kilval	↗	0
vegetable oil	Addit	↗	0
Verticillium lecanii	Mycotal, Vertalec	↗	0
vinclozolin	Ronilan, Flotilla	↗	0
zineb (*1)	Polyram Z, Vitex	✘	14
zineb (*4)		✘	?

Légende

- Recouvrir les ruches
- ↗ Incompatible ou combinaison à éviter
- ↖ Retirer les ruches
- ? Effet inconnu

- *1 : pulvérisation à haut volume
- *2 : injection par le système d'irrigation
- *3 : ultra bas volume
- *4 : poudrage
- *5 : fumigation

Consulter www.koppert.com pour les effets secondaires actualisés

Legend

- No action
- ↗ Cover hives
- ✘ Incompatible
- ↖ Remove hives
- ? Effect unknown

- *1 : high volume spray
- *2 : drench/application via irrigation system
- *3 : low volume method
- *4 : dust
- *5 : fumigation

Visit www.koppert.com for current side effects

Leyenda

- No se requiere ninguna actuación
- ↗ Cubrir las colmenas
- ✘ Incompatible
- ↖ Retirar las colmenas
- ? Efecto desconocido

- *1 : pulverización a alto volumen
- *2 : aplicación via riego
- *3 : pulverización a bajo volumen
- *4 : Espolvoreo
- *5 : Sublimación

Visite www.koppert.com para obtener actualizaciones de la lista de efectos secundarios

La base de données Koppert sur les effets secondaires est fournie à titre purement indicatif, pour vous aider à évaluer l'effet des pesticides sur les organismes utiles. Les résultats dans la pratique peuvent être différents de ce qui est mentionné dans la base de données de pesticides et effets secondaires etc. En la práctica, los resultados pueden diferir de lo indicado en dicha base de datos debido a numerosos factores, tales como número de tratamientos, cantidad de principio activo aplicado, temperatura, radiación solar, fase del cultivo, tipo de sustrato, etc. Koppert no se responsabiliza de los efectos adversos derivados del uso de los datos mencionados en la lista.

The Koppert Side effects database is a guideline to assess the effect of pesticides on beneficial organisms. The results in practical situations may differ from what is mentioned in the Side effects database due to multiple factors, such as number of treatments, amount of active ingredient applied, temperature, solar radiation, stage of the crop, type of substrate, etcetera. Koppert does not accept liability for any adverse consequences arising from the use of the data presented in the list.

La base de datos Efectos secundarios de Koppert se puede usar como una guía para evaluar el efecto de los pesticidas en los organismos beneficiosos. En la práctica, los resultados pueden diferir de lo indicado en dicha base de datos debido a numerosos factores, tales como número de tratamientos, cantidad de principio activo aplicado, temperatura, radiación solar, fase del cultivo, tipo de sustrato, etc. Koppert no se responsabiliza de los efectos adversos derivados del uso de los datos mencionados en la lista.



Avec la ruche NATUPOL, la pollinisation est garantie
Proven pollination with NATUPOL bumblebees
Con la colmena NATUPOL la polinización está asegurada