

Insecticide Table

This table includes selected information about the insecticides recommended in this guide. The products are listed alphabetically by **Active Ingredient**, with a selection of **Trade Names**.

* = indicates that some formulations may be Restricted Use Pesticides (RUP) and require a certification to purchase and use

† = indicates that some formulations may be listed by the Organic Materials Research Institute (OMRI) and may be allowed in organic production

The **Signal Word** is an indication of the human health hazard of the product.

The **Greenhouse Use** and **Chemigation Use** columns have one of four listings:

yes = the product label explicitly allows the use

some = the product label explicitly allows the use for certain crops (see the label for details), or certain Trade Names allow complete or partial use

no = the product label explicitly prohibits the use

silent = the product label does not mention the use — states decide if such uses are allowed

The **Respirator Use** column has one of the following listings:

no = a respirator is not required PPE

yes = a respirator is required for some part of the process (see label for details)

some = certain Trade Names may require respirators, but others may not

The **Bee Precaution** column uses the following listings:

I = Do not apply to plants that are flowering, or water puddles

II = Do not apply to plants that are flowering, or water puddles, except at dusk

III = No bee precaution, except when required by the pesticide label or regulations

a = Toxic to honey bee brood

b = Toxic to other bee species

Active Ingredients	Trade Names	Signal Word	Greenhouse Use	Chemigation Use	Respirator Use	Bee Precaution
*1,3-dichloropropene	Telone II, Telone EC	warning, danger	no	some	yes	II a
*1,3-dichloropropene, chloropicrin	Telone C-17, Telone C-35	danger	no	no	yes	II a
*abamectin	Agri-Mek SC	warning	some	no	no	I b
acephate	Bracket 97, Orthene 97	caution	no	some	yes	I b
acequioncyl	Kanemite 15SC, Shuttle 15SC	caution	some	no	no	III
acetamiprid	Assail 30SG, Assail 70WP, Tristar 8.5SL	caution	some	some	some	II b
afidopyropen	Sefina Inscalis, Versys Inscalis	caution	no	some	no	-
†azadirachtin	Aza-Direct, AzaGuard, AzaSol, Azatin O, Azatrol EC, Ecozin Plus 1.2 ME, Molt-X	caution	yes	some	no	II

Active Ingredients	Trade Names	Signal Word	Greenhouse Use	Chemigation Use	Respirator Use	Bee Precaution
†azadirachtin, pyrethrins	Azera	caution	yes	some	yes	I b
†Bacillus thuringiensis kurstaki strain ABTS-351	Biobit HP, DiPel DF, DiPel ES, LEAP ES	caution	some	some	yes	III
Bacillus thuringiensis tenebrionis strain NB-176	Novodor FC	caution	silent	no	yes	-
†Bacillus thuringiensis tenebrionis strain SA-10	Trident	caution	silent	no	yes	-
*beta-cyfluthrin	Baythroid XL	warning	silent	some	yes	I
bifenazate	Acramite 50WS, Floramite	caution	some	some	no	II b
*bifenthrin	Bifenture EC, Brigade WSB, Capture LFR, Sniper	caution, warning	some	some	no	I b
*bifenthrin, *abamectin	Athena	caution	silent	no	no	I b
*bifenthrin, Bacillus amyloliquefaciens strain D 747	Ethos 3D	warning	silent	no	yes	I b
*bifenthrin, *zeta-cypermethrin	Hero, HERO EW, Steed	caution, warning	silent	some	no	I b
†Burkholderia spp. strain A396	Majestene, Venerate	caution	yes	some	yes	II
carbaryl	Sevin 4F, Sevin XLR	caution	silent	some	some	I b
chlorantraniliprole	Coragen	caution	no	some	no	III
chlorantraniliprole, *lambda-cyhalothrin	Besiege	warning	no	some	no	I b
*chlorpyrifos	Govern, Hatchet, Lorsban, Nufos, Saurus, Vulcan, WhirlWind, Warhawk	caution, warning, danger	silent	some	some	I b
†Chromobacterium subsugae strain PRAA4-1	Grandevo	caution	yes	some	yes	II
clothianidin	Belay, Poncho	caution	silent	some	no	I b
cyantraniliprole	Exirel, Verimark	caution	some	some	no	-
cyantraniliprole, *abamectin	Minecto Pro	warning	some	no	no	I b
cyclaniliprole	Harvanta	caution	no	some	no	-
cyflumetofen	Nealta	caution	no	no	no	-
*cyfluthrin	Tombstone (2EC)	danger	silent	some	yes	I b
*cyfluthrin, phostebupirim	Aztec 2.1G	warning	silent	silent	yes	I b
*cypermethrin	Ammo 2.5EC, Holster, Up-Cyde 2.5EC	caution, warning	silent	some	no	I b
cyromazine	Trigard	caution	no	no	no	II b
*diazinon	Diazinon AG500, Diazinon AG600 WBC	caution	no	some	yes	I b
dicofol	Dicofol 4E	caution	silent	no	yes	III
dimethoate	Dimethoate 2.67EC, Dimethoate 400, Dimethoate 4EC	warning	some	some	yes	I b
dinotefuran	Safari 20 SG, Scorpion 35SL, Venom 70SG	caution	some	some	no	I ab
*emamectin benzoate	Proclaim	caution	no	no	yes	I b
*esfenvalerate	Asana XL, S-FenvaloStar	warning	silent	some	no	I b
*ethoprop	Mocap 15G, Mocap EC	danger	silent	some	yes	II b
*fenpropathrin	Danitol 2.4EC	warning	silent	no	no	I b
*fipronil	Regent 4SC	warning	silent	no	yes	I b
flonicamid	Beleaf	caution	some	some	no	III b
fluensulfone	Nimitz	caution	silent	some	no	-

Insecticide Table

Active Ingredients	Trade Names	Signal Word	Greenhouse Use	Chemigation Use	Respirator Use	Bee Precaution
flupyradifurone	Sivanto 200, Sivanto Prime	caution	silent	some	no	II
hexythiazox	Onager Optek, Hexygon	caution	some	some	no	II b
imidacloprid	Admire Pro, Mantra 60WSP, Marathon 60 WP, Nuprid	caution	some	some	no	I ab
indoxacarb	Avaunt	caution	some	some	no	I b
†iron phosphate	Sluggo 1B	caution	yes	silent	no	-
*lambda-cyhalothrin	Grizzly Too, Lambda-Cy 1EC, Warrior II	warning	silent	some	no	I b
malathion	Malathion 5, Malathion 57, Malation 8	caution, warning	some	some	no	I b
metaldehyde	Deadline Bullets, Deadline M-Ps, Durham 3.5G	caution	silent	silent	no	III
*metam potassium	Sectagon K54, K-PAM HL	danger	no	some	yes	III
*metam sodium	Sectagon K42, VAPAM HL	danger	no	some	yes	III
methomyl	Lannate LV, Lannate SP, Nudrin LV, Nudrin SP	danger	silent	some	yes	I b
methoxyfenozide	Intrepid 2F	caution	some	some	no	II
*oxamyl	Vydate C-LV, Vydate L	danger	silent	some	yes	I b
*permethrin	Ambush 25W, Perm-Up 25DF, Perm-Up 3.2EC, Pounce 25 WP	warning	silent	some	no	I b
*phorate	Thimet 20G	danger	silent	silent	yes	III b
piperonyl butoxide, pyrethrins	EverGreen Pro, Pyrenone	caution	yes	some	yes	I b
†potassium salts of fatty acids	M-Pede	warning	yes	no	no	-
pymetrozine	Fulfill	caution	silent	some	no	II
pyrifluquinazon	PQZ	caution	silent	no	no	-
pyriproxifen	Distance, Knack	caution	some	some	no	II ab
spinetoram	Radiant 1SC	caution	no	some	no	II
†spinosad	Blackhawk, Entrust, Entrust SC, Regard SC	caution	some	some	some	II b
spiromesifen	Oberon 2SC	caution	silent	some	no	II a
spirotetramat	Movento, Kontos	caution	some	some	no	II ab
sulfoxaflor	Closer SC, Transform	caution, danger	some	some	no	I
tebufenozide	Confirm 2F	caution	silent	some	no	II a
*tefluthrin	Force 3G, Force CS	caution, warning	silent	silent	no	-
*terbufos	Counter 15G, Counter 20G	danger	silent	silent	yes	-
thiamethoxam	Actara, Cruiser 5FS, Flagship 25WG, Platinum 2SC	caution	some	some	no	I b
thiamethoxam, chlorantraniliprole	Durivo, Voliam Flexi	caution	no	some	no	I b
thiamethoxam, *lambda-cyhalothrin	Endigo ZC	warning	no	some	no	I b
tolfenpyrad	Torac	warning	silent	some	no	III b
*zeta-cypermethrin	Mustang Maxx	warning	silent	some	no	I