

BioCalifornicus (*Neoseiulus californicus*) Chemical List

Unlimited use in I.P.M	Harmless < 25% reduction	1
Consultation	Slightly harmful 25% - 60%	2
Consultation	Moderately harmful - 60% - 98%	3
Forbidden for use in I.P.M	Harmful - 98% - 100% reduction	4

TARGET: SPIDER MITES

Active Ingredient	Beneficial Life Cycle Stage	Dosage (%)	Direct Spray	Residual Effects/Day
Abamectin	Adult	Spray 0.1	1	
Abamectin 18%g/l + Chlorantraniliprple 45 g/l	Adult	0.1	3	
Abamectin + Potassium salt of fatty acids 480	Adult	0.1 + 0.5	3	
Abamectin EW 18 g/l + Spinetoram 120 g/l	Adult	0.1 + 0.08	4	
Acequinocyl	Adult	0.2	1	
Acynonapyr 20%	Adult	0.1	1	
Bifenazate 240 g/l + plant oil	Adult	0.2	1	
Bifenazate + Potassium of fatty acids 480	Adult	0.2 + 0.5	1	
Bifenazate 240 g/l + plant oil	Adult	0.15 + 3	1	
Chlorfenapyr + Spinetoram 120 g/l +neem oil	Adult	0.05 +0.08 + 0.5	1	
Chlorobenzilate	Adult	0.5	1	
Clofentenzin	Adult	0.05	1	

Cyhexatin	Adult	0.05	1	
Emamectin benzoate	Adult	0.05	1	
Etoxazole	Adult	0.025	1	
Fenazaquin	Adult	0.1 Doesn't kill - Only repels them	1	
Fenbotatine oxide	Adult	0.1 +0.2	1	
Fenpyroximate	Adult	0.1	1	
Hexythiazox	Adult	0.05	1	
Milbemectin	Adult	0.1	1	
Potassium Salt of fatty acids 480	Adult	0.01	1	
Pyridaben	Adult	0.1 Doesn't kill - Only repels them	2	
Spinetoram 120 g/l + Spirotetramat	Adult	0.08 + 0.06	1	
Spirodiclofen	Adult	0.1	1	
Spiromesifen	Adult	0.06	1	
Spiropidion	Adult	0.12	1	
Spirotetramat	Adult	0.06	1	
Spirotetramat (Movento)	Adult	0.06	1	
Oil (Tamar tec)	Adult	0.03	1	
Tebufenpyrad	Adult	0.1	1	
Tetradifon	Adult	0.1 +0.15	1	
Isocycloseram (Colombia)	Adult	0.01	1	

TARGET: THRIPS

Active Ingredient	Beneficial Life Cycle Stage	Dosage (%)	Direct Spray	Residual Effects/Day
Abamectin + Potassium salt of fatty acids 480	Adult	0.1 + 0.5%	3	
Abamectin EW 18 g/l + Spinetoram 120 g/l	Adult	0.1 + 0.08	4	
Abamectin 18 EC + Bupirimate + Spinetoram SC.	Adult	0.1 + 0.1+ 0.08	1	

Acrinathrin	Adult	0.08	1	
Afidopyriopen DC + Dimetomorph 60% + Mancozeb 9%	Adult	0.2 + 0.075		
Chlorfenapyr	Adult	0.05	1	
Chlorfenapyr + Neem oil	Adult	0.05 + 1%	1	
Chlorfenapyr + Abamectin 18 g/l	Adult	0.05 + 0.1	1	
Chlorfenapyr + Spinetoram 120 g/l +neem oil	Adult	0.05 +0.08 + 0.5	1	
Chlorfenapyr + Mancozeb 57.2% +Cymoxanil 14.2 WP	Adult	0.05 + 0.4	1	
Chlorfluazuron	Adult	0.1	1	
Deltamethrin	Adult	0.1	1	
Emamectin bnzoate	Adult	0.05	1	
Famoxadone 300g/l + Bupirimate + Spinetoram SC.	Adult	0.1 + 0.1 + 0.08.	1	
Fammoxadone 300g/l - Oxathiapiprolin30g/l + Penconazole EW 200g/l + Spinetoram SC.	Adult	0.1 + 0.07 + 0.08	1	
Fammoxadone 300g/l - Oxathiapiprolin 30g/l + Bupirimate + Cyantraniliprole	Adult	0.1 +0.1 + 0.075	1	
Pyridalyl	Adult	0.05 + 0.1	1	
Spinosad + Potassium salt of fatty acids 480	Adult	0.08	1	
Spinosad +Potassium salt of fatty acids 480	Adult	0.1 + 0.5%	1	
Spinetoram SC + Dimetomorph 60% + Mancozeb 9% WP	Adult	0.08 +0.4		
Spinetoram SC + Mancozeb 57.2% + Cymoxanil 14.2% WP	Adult	0.08 + 0.4		
Spinetoram 120 g/l SC + plant oil(Tamar tec).	Adult	0.08 + 3%	3	
Spinetoram 120 g/l + Plant oil (Tamar tec).	Adult	0.08 + 2%	1	

Spinetoram 120 g/l SC + Neem oil	Adult	0.08 + 1%	1	
Spinetoram 120 g/l SC	Adult	0.08	1	
Spinetoram 120 g/l + Spirotetramat	Adult	0.08 + 0.06	1	
Tau - Fluvalinate 240 g/l EW + Lambda Cyhalotrin 50 g/l CS	Adult	0.1 + 0.2	1	
Tolfenpyrad	Adult	0.1	3	
Isocycloseram (Colombia)	Adult	0.01	0	

TARGETED PEST: WHITE FLY

Active Ingredient	Beneficial Life Cycle Stage	Dosage (%)	Direct Spray	Indirect Spray
Acetamiprid	Adult	0.04	1	
Acetamiprid 218 g/l + Emamectin benzoate 37 g/l	Adult	0.03	3	
Afidopyriopen DC	Adult	0.075	1	
Afidopyriopen DC + Famoxadone 300 g/l + Oxathiapiproline 30 g/l	Adult	0.08 + 0.1	1	
Afidopyriopen DC + Potassium salt of fatty acid 480	Adult	0.08 + 0.5%	1	
Afidopyriopen DC + Neem oil	Adult	0.075 + 1%	1	
Azadirachtin 12 gr/l + Potassium of fatty acid 480	Adult	0.25 + 0.5	1	
Azadirachtin 12 gr/l	Adult	0.3	1	
Bifenathrin	Adult	0.08	2	
Buprofezin	Adult	0.15	1	
Cyantraniliprole 100 g/l + neem oil	Adult	0.03 + 1%	1	
Cyantraniliprole 100 g/l+ Acibenzolar - S Methyl 12.5 g/l	Adult	0.075	1	
Diafenthiuron	Adult	0.15	1	
Dinotefuran	Adult	0.075	1	
Flupyradifurone 200 SL	Adult	0.08	1	

Imidacloprid	Adult	Drench 0.1	1	
Imidacloprid 430 + Lambda cyhalothrin 30 Z.C	Adult	0.08	1	
Bio Karanya(Peru Plant oil)	Adult	0.8	1	
Phosmet	Adult	0.1	1	
Pyriproxyfen 100 g/l EC + Sulfoxaflor 240 SC	Adult	0.1 + 0.03	1	
Pyriproxyfen	Adult	0.1	1	
Sulfoxaflor 240 SC	Adult	0.08	1	
Thiacloprid	Adult	0.04 + 0.1	1	
Thiacloprid 240 g/l OD	Adult	0.08	1	
Thiamethoxam	Adult	Drench 0.1	1	
Thiocylam	Adult	0.1 Doesn't kill just repels	2	

TARGETED PEST: APHIDS				
Active Ingredient	Beneficial Life Cycle Stage	Dosage (%)	Direct Spray	Indirect Spray
Acetamiprid	Adult	0.04	1	
Acetamiprid 218 g/l + Emamectin benzoate 37 g/l	Adult	0.03	3	
Afidopyriopen DC	Adult	0.075	1	
Afidopyriopen DC + Potassium salt of fatty acid 480	Adult	0.08 + 0.5%	1	
Afidopyriopen DC + Neem oil	Adult	0.075 + 1%	1	

Azadirachtin 12 gr/l + Potassium of fatty acid 480	Adult	0.25 + 0.5	1	
Azadirachtin 12 gr/l	Adult	0.3	1	
Bifenathrin	Adult	Dosage	2	
Bio Karanya (Peru Plant oil)	Adult	0.2	1	
Cyantraniliprole 100 g/l + neem oil	Adult	0.03 + 1%	1	
Cyantraniliprole 100 g/l + Acibenzolar - S Methyl 12.5 g/l	Adult	0.075	1	
Flonicamid	Adult	0.02	1	
Flupyradifurone 200 SL	Adult	0.08	1	
Imidacloprid	Adult	Drench 0.1	1	
Imidacloprid 430 + Lambda cyhalothrin 30 Z.C	Adult	0.08	1	
Phosmet	Adult	0.1	1	
Pirimicarb	Adult	0.05	1	
Plant oil (Colombia)		0.2		
Potassium Salt of fatty acids 480	Adult	0.01	1	
Pyriproxyfen 100 g/l EC + Sulfoxaflor 240 SC	Adult	0.1 + 0.03	1	
Spiropidion (Elestal)	Adult	0.12	1	
Thiacloprid	Adult	0.04 + 0.1	1	
Thiacloprid 240 g/l OD	Adult	0.08	1	
Thiaclopride + Chlorantraniliprole + Bupirimate		0.06 + 0.03 + 0.1		
Thiamethoxam	Adult	Drench 0.1	1	
Thiocylam	Adult	0.1 Doesn't kill just repels	2	

TARGETED PEST: LEAFMINERS

Active Ingredient	Beneficial Life Cycle Stage	Dosage (%)	Direct Spray	Indirect Spray
Cyromazin	Adult	Spray 0.025	1	

TARGETED PEST: CATERPILLARS

Active Ingredient	Beneficial Life Cycle Stage	Dosage (%)	Direct Spray	Indirect Spray
Abamectin 18%g/l + Chlorantraniliprple 45 g/l	Adult	0.1	3	
Alpha - Cypermethrin	Adult	0.1	1	
Bifenathrin	Adult	Dosage	2	
Chlorantraniliprole	Adult	0.03	1	
Chlorfenapyr	Adult	0.05	1	
Chlorfenapyr + Neem oil	Adult	0.05 + 1%	1	
Chlorfenapyr + Abamectin 18 g/l	Adult	0.05 + 0.1	1	
Chlorfluazuron	Adult	0.1	1	
Cypermethrin	Adult	0.1	1	
Cufluthrin 50 g/l EC	Adult	0.10%	1	
Deltamethrin	Adult	0.1	1	
Fenoxycard	Adult	0.1	1	
Flubendiamide	Adult	0.02	1	
Indoxacarb	Adult	0.03	1	
Lambda Cyhalotrin CS	Adult	0.15	1	
Lofenuron	Adult	0.04	1	
Metafumizone	Adult	0.1	1	
Methoxyfenozide	Adult	0.1	1	
Nuvaluron	Adult	0.05 + 0.1	1	
Phosmet	Adult	0.1	1	
Pyridalyl	Adult	0.05 + 0.1	1	
Tau - Fluvalinate 240 g/l EW + Lambda Cyhalotrin 50 g/l CS	Adult	0.1 + 0.2	1	
Teflobenzuron	Adult	0.1	1	
Thiaclopride + Chlorantraniliprole + Bupirimate	Adult	0.06 + 0.03 + 0.1	1	

TARGET: MEALYBUGS

Active Ingredient	Beneficial Life Cycle Stage	Dosage (%)	Direct Spray	Indirect Spray
Buprofezin	Adult	0.15	1	
Plant oil (Colombia)	Adult	0.2	1	
Pyriproxyfen	Adult	0.1	1	
Sulfoxaflor 240 SC	Adult	0.08	1	

TARGET: PHYTOPHTHORA - D. MILDOW

Active Ingredient	Beneficial Life Cycle Stage	Dosage (%)	Direct Spray	Indirect Spray
Afidopyriopen DC + Famoxadone 300 g/l + Oxathiapiproline 30 g/l	Adult	0.08 + 0.1	1	
Afidopyriopen DC + Dimetomorph 60% + Mancozeb 9%	Adult	0.2 + 0.075	1	
Chlorfenapyr + Mancozeb 57.2% +Cymoxanil 14.2 WP	Adult	0.05 + 0.4	1	
Dimetomorph 60% + Mancozeb 9%	Adult	0.2	1	
Famoxadone 300 g/l + Oxathiapiprolin 30 g/l	Adult	0.1	1	
Fammoxadone 300g/l - Oxathiapiprolin30g/l + Penconazole EW 200g/l + Spinetoram SC.	Adult	0.1 + 0.07 + 0.08	1	
Famoxadone 300g/l +Bupirimate + Spinetoram SC.	Adult	0.1 + 0.1 + 0.08.	1	

Famoxadone 300g/l - Oxathiapiprolin 30g/l + Bupirimate + Cyantraniliprole	Adult	0.1 + 0.1 + 0.075	1	
Famoxadone 300g/l - Oxathiapiprolin 30 g/l + Fluopyram + Pyrimethanil	Adult	0.1 + 0.12	1	
Fenamidone 10% + Mancozeb 50% WG	Adult	0.15	1	
Fosetyl Aluminium 50% + Folpet 25%	Adult	0.3	1	
Isofetamid 400 g/l	Adult	0.12	1	
Mancozeb 57.2% + Cymoxanil 14.2% WP	Adult	0.3	1	
Metalaxyl - M 4% + Mancozeb 64% WG	Adult	0.35	1	
Pyraclostrobin 26.7% + Boscalid 6.7% WG + Dimetomorph 60% + Mancozeb 9%	Adult	0.075 + 0.1	1	
Spinetoram SC + Dimetomorph 60% + Mancozeb 9% WP	Adult	0.08 + 0.4	1	
Spinetoram SC + Mancozeb 57.2% + Cymoxanil 14.2% WP	Adult	0.08 + 0.4	1	

TARGET: POWDERY MILDEW				
Active Ingredient	Beneficial Life Cycle Stage	Dosage (%)	Direct Spray	Indirect Spray
Abamectin 18 EC + Bupirimate + Spinetoram SC.	Adult	0.1 + 0.1+ 0.08	1	
Abamectin 18 EC + Bupirimate + Spinetoram SC.	Adult	0.1 + 0.1+ 0.08	1	

Fammoxadone 300g/l - Oxathiapiprolin 30g/l + Penconazole EW 200g/l + Spinetoram SC.	Adult	0.1 + 0.07 + 0.08	1	
Famoxadone 300g/l + Bupirimate + Spinetoram SC.	Adult	0.1 + 0.1 + 0.08.	1	
Fammoxadone 300g/l - Oxathiapiprolin 30g/l + Bupirimate + Cyantraniliprole	Adult	0.1 + 0.1 + 0.075	1	
Fammoxadone 300g/l - Oxathiapiprolin 30 g/l + Fluopyram + Pyrimethanil	Adult	0.1 + 0.12	1	
Bupirimate + Metrafenone SC	Adult	0.1 + 0.03	1	
Boscalid + Pyraclostrobin WG + Pyriofenone	Adult	0.03 + 0.08	1	
Pyriofenone 300 SC	Adult	0.03	1	
Meptyldinocap 350 g/l EC	Adult	0.05	1	
Metrafenone SC 500 g/l	Adult	0.05	1	
Spinetoram SC 120g/l + Bupirimate + Penconazole	Adult	0.08 + 0.1 + 0.07	1	
Thiaclopride + Chlorantraniliprole + Bupirimate	Adult	0.06 + 0.03 + 0.1	1	

Disclaimer

1. As part of its many years of operation, BioBee Sde Eliyahu Ltd. (the “**Company**”) has examined and continues to examine the effect of pesticides marketed in Israel (both conventional and organic) on the Company’s natural enemy arthropod products and/or bumblebee pollinators (the “**Beneficials**”). As a result, the Company holds information that includes lists of dozens of types of pesticides, by their active ingredients and their potential effect on various Beneficials, assuming no other pesticides were combined with the specific tested pesticides and no change was made to the composition of the ingredients, including the formulation concerning the pesticides listed on the date and in the territory that such pesticides were tested (the “**Information**”).
2. For the avoidance of any doubt, it is hereby clarified that the Information provided to the grower is purely an informative tool, aiming to assist the grower in combining the Beneficials with pesticides. It does not constitute a consultation or a warranty regarding the use of pesticides, their effect on the Beneficials and/or the pests.
3. In addition, it is hereby clarified that although the Company operates to update and strives to ensure that its lists are up to date, **it is possible that the composition of the ingredients, including the formulation of a particular pesticide, has been changed and/or updated without the Company’s knowledge. Furthermore, there might be changes in the composition of the ingredients of a particular pesticide, including its formulation, in different territories.** Therefore, it is further emphasized, that the grower shall be exclusively responsible and liable for any use of pesticides. This includes but not limited to, ensuring adherence to the manufacturer’s instructions as indicated on the pesticide labels (dosage, volume, etc.), ensuring that the person using the pesticides is qualified and has undergone adequate training, verifying that the pesticide is authorized for the local market and/or for export, verifying the period of time allowed to use a pesticide in the field before harvesting (harvest interval) and the period of time allowed before re-entry to the field after using the pesticide (re-entry period), etc.
4. The Company shall not bear any responsibility or liability whatsoever, for any use of the pesticide by the grower, and shall not be liable in any event for any damage of any kind, whether direct, indirect, consequential or incidental resulting from the grower’s use of the pesticides, whether the pesticide was indicated in the Company’s lists or not. The use of the Information is the sole responsibility of the grower. The Company does not recommend specific pesticide for use and explicitly states that the Information provided should not be considered as conclusive or binding in any manner.