



## BioSwirski (*Amblyseius swirskii*) 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 | Indirect Spray | Residual Effects/Day | Sublethal Effect |
| Abamectin 18% EC                       | Adult/Nymph                 | 0.05         | 4            | 1              |                      |                  |
| Abamectin 18% E.W                      | Adult                       | 0.05         | 3            |                |                      |                  |
| Abamectin 18% EC (Agrimec)             | Adult/Nymph                 | 0.05         | 2            | 1              |                      |                  |
| Abamectin 18% EC                       | Adult/Nymph                 | 0.1          | 4            | 2              |                      |                  |
| Acequinocyl 150g/l SC                  | Adult/Nymph                 | 0.2 - 0.25   | 1            |                |                      |                  |
| Acynonapyr 20%                         | Adult/Nymph                 | 0.05         | 1            |                |                      |                  |
| Acynonapyr 20% + Neem oil + citronella | Adult/Nymph                 |              | 1            |                |                      |                  |
| Bifenazate 240g/l SC                   | Adult/Nymph                 | 0.05 - 0.1   | 1            |                |                      |                  |
| Bifenazate 250 g/l OD                  | Adult                       | 0.05         | 1            |                |                      |                  |
| Clofentezine 50g/l SC                  | Adult/Nymph                 | 0.04         | 1            |                |                      |                  |
| Cyflumetofen 215g/l SC                 | Adult/Nymph                 | 0.1          | 1            |                |                      |                  |
| Emamectin Benzoate 19.2 EC             | Adult/Nymph                 | 0.04 - 0.05  | 2            | 1              | 1                    |                  |
| Etoazole 110g/l SC                     | Adult/Nymph                 | 0.025 - 0.03 | 1            |                |                      |                  |
| Fenbutatin oxide 550g/l SC             | Adult/Nymph                 | 0.1 - 0.2    | 1            |                |                      |                  |

|  |             |             |   |   |       |                   |
|--|-------------|-------------|---|---|-------|-------------------|
| Fenpyroximate 5% SC                    | Adult/Nymph | 0.15        | 2 | 1 |       |                   |
| Hexythiazox                            | Adult/Nymph | 0.04 - 0.05 | 1 |   |       |                   |
| Milbemectin 9.3g/l EC                  | Adult/Nymph | 0.1         | 4 |   | 3     |                   |
| Milbemectin 9.3g/l EC                  | eggs        | 0.1         | 2 |   |       |                   |
| Mineral oil                            | Adult/Nymph | 1%          | 1 |   |       |                   |
| Metarhizium Fungus                     | Adult/Nymph | 0.04        | 1 |   |       |                   |
| Metarhizium Fungus                     | Adult/Nymph | 0.04        | 1 |   |       |                   |
| Metarhizium Fungus                     | Adult/Nymph | 0.04        | 1 |   |       |                   |
| Neem oil 97% OL                        | Adult/Nymph | 1%          | 1 |   |       |                   |
| Neem oil 66% E.C                       | Adult/Nymph | 1           | 1 |   |       |                   |
| Neem oil 66% E.C + Citronella          | Adult/Nymph | 1           | 1 |   |       |                   |
| plant mixture                          | Adult/Nymph | 1.25        | 3 | 1 |       |                   |
| Plant extract                          | Adult       | 0.5         | 1 |   |       |                   |
| Plant oil                              | Adult/Nymph | 3%          | 1 |   |       |                   |
| plant oil E.C                          | Adult/Nymph | 1           | 1 |   |       |                   |
| Potassium Salts of fatty acids 480     | Adult       | 1           | 2 | 1 |       |                   |
| Propargite 570g/l EC                   | Adult/Nymph | 0.1         | 2 |   | 3 - 5 |                   |
| Pyridaben 200g/l Ec                    | Adult/Nymph | 0.1         | 3 |   | 14    |                   |
| Pyridaben 200g/l Ec                    | Eggs        | 0.1         | 4 |   | 14    |                   |
| Pyrimidifen 100g/l SC                  | Adult/Nymph | 0.5         | 4 |   | 14    |                   |
| Silicon                                | Adult/Nymph | 0.15        | 4 | 1 |       |                   |
| Spirodiclofen 240g/l SC                | Adult/Nymph | 0.04        | 1 |   |       |                   |
| Spiromesifen 240g/l SC                 | Adult/Nymph | 0.06 - 0.1  | 4 |   | 14    |                   |
| Spirotetmat 100g/l SC                  | Adult/Nymph | 0.04 - 0.1  | 1 |   |       |                   |
| spirotetramat 100g/l (Movento intergo) | Adult       | 0.1         | 2 |   |       | Fertility problem |
| spirotetramat 100g/l (Movento intergo) | Adult       | 0.2         | 3 |   |       | Fertility problem |
| Tebufenpyrad 20% Wp                    | Adult/Nymph | 0.1         | 1 |   |       |                   |
| Tetradifon 80g/l EC                    | Adult/Nymph | 0.1 - 0.2   | 1 |   |       |                   |

**TARGET: THRIPS**

| Active Ingredient                  | Beneficial Life Cycle Stage | Dosage (%)   | Direct Spray | Indirect Spray | Residual Effects/Day | Sublethal Effect |
|------------------------------------|-----------------------------|--------------|--------------|----------------|----------------------|------------------|
| Acrinathrin 75g/l EW               | Adult/nymph                 | 0.06 - 0.08  | 4            | 4              |                      |                  |
| Bifenthrin 100g/l Ec               | Adult/nymph                 | 0.075        | 1            |                |                      |                  |
| Chlorfenapyr 240g/l SC             | Adult/Nymph                 | 0.05 - 0.06  | 4            |                | 7                    |                  |
| Emamectin Benzoate 19.2g/l         | Adult/nymph                 | 0.05- 0.06   | 2            | 1              |                      |                  |
| Emamectin benzoate + Lufenuron 40% | Adult/nymph                 | 0.01         | 1            |                |                      |                  |
| Etofenprox 300g/l                  | Adult/nymph                 | 0.2          | 4            |                | 3                    |                  |
| Fenpropathrin 200g/l Ec            | Adult/nymph                 | 0.3 - 0.5    | 4            | 4              |                      |                  |
| Formetanate 50% SP                 | Adult/nymph                 | 0.1          | 4            |                | 28                   |                  |
| Fipronil                           | Adult/nymph                 | 0.1          | 4            |                | 28                   |                  |
| Lufenuron 50g/l Ec                 | Adult/nymph                 | 0.04 - 0.05  | 1            |                |                      |                  |
| Methiocarb 500g/l Sc               | Adult/nymph                 | 0.1          | 4            |                | 28                   |                  |
| Pyridalyl 500g/l Ec                | Adult/nymph                 | 0.02 - 0.025 | 1            |                |                      |                  |
| Spinetoram 120g/l SC               | Adult/nymph                 | 0.04         | 3            | 1              |                      |                  |
| Spinetoram 120g/l SC               | Adult                       | 0.08         | 1            |                |                      |                  |
| Spinetoram 120g/l SC               | Adult/nymph                 | 1.6          | 2            |                |                      |                  |
| Spinosad RB 20                     | Adult/nymph                 | 0.1          | 1            |                |                      |                  |
| Spinosad 120- 480g/l SC            | Adult/nymph                 | 0.04 - 0.08  | 3            | 1              |                      |                  |
| TAU- Fluvalinate EW                | Adult                       | 0.1          | 2            |                |                      |                  |
| TAU- Fluvalinate EW                | Adult                       | 0.2          | 3            |                |                      |                  |
| Thyme oil 3.5%                     | Adult/nymph                 | 1%           | 1            |                |                      |                  |
| Tolfenpyrad 15% EC                 | Adult/nymph                 | 0.1          | 4            | 4              | 7                    |                  |

**TARGETED PEST: WHITE FLY**

| Active Ingredient                                   | Beneficial Life Cycle Stage | Dosage (%)  | Direct Spray | Indirect Spray | Residual Effects/Day | Sublethal Effect |
|---|-----------------------------|-------------|--------------|----------------|----------------------|------------------|
| Acetamiprid 200g/l SL                               | Adult/nymph                 | 0.04 - 0.06 | 1            |                |                      |                  |
| Acetamiprid 218 g/l + Emamectin benzoate 37 g/l     | Adult                       | 0.03        | 2            | 1              |                      |                  |
| Azadirachtin 45g/l EC                               | Adult/nymph                 | 0.1         | 1            |                |                      |                  |
| Azinphos Methyl 200g/l                              | Adult/nymph                 | 0.2         | 4            |                | 3                    |                  |
| Buprofezin 250g/l SC                                | Adult/nymph                 | 0.1 - 0.15  | 1            |                |                      |                  |
| Chlorantraniliprole + Thiamethoxam                  | Adult/nymph                 | 0.015       | Dr -1        |                |                      |                  |
| Cyantraniliprole 100g/l                             | Adult/nymph                 | 0.15        | 1            |                |                      |                  |
| Cyantraniliprole 100 g/l + Fluopyram + Tebuconazole | Adult/nymph                 | 0.075 +0.04 | 1            |                |                      |                  |
| Cyantraniliprole 200g/l                             | Adult/nymph                 | 0.1         | Dr - 1       |                |                      |                  |
| Detergent (LQ 215)                                  | Adult/nymph                 | 1%          | 1            |                |                      |                  |
| Dinotefuran   | Adult/nymph                 | 0.1         | 1            |                |                      |                  |
| Fatty acids 479.8 g/l S.C                           | Adult                       | 1%          | 1            |                |                      |                  |
| Fatty acid 30% + Potassium salt 50%                 | Adult/nymph                 | 1           | 2            | 1              |                      |                  |
| Fenpropathrin 100g/l EC                             | Adult/nymph                 | 0.2         | 4            | 4              | 21                   |                  |
| Flupyradifurone 200 S/L                             | Adult/nymph                 | 0.1 - 0.15  | 1            |                |                      |                  |
| Imidacloprid  | Adult/nymph                 | 0.05        | Hvs - 4      |                | 14                   |                  |
| Imidacloprid  | Adult/nymph                 | 0.05        | Dr - 2       |                | 14                   |                  |
| Imidacloprid 430 + Lambda cyalo                     | Adult                       | 0.08        | 1            |                |                      |                  |
| Mineral oil   | Adult/nymph                 | 1%          | 1            |                |                      |                  |
| Neem oil (India)                                    | Adult/nymph                 | 1%          | 4            |                | 1                    |                  |
| Pirimifos Methyl                                    | Adult/nymph                 | 0.1         | 4            |                | 28                   |                  |
| Potassium salt of fatty acid 49%                    | Adult/nymph                 | 0.5         | 1            |                |                      |                  |

|  |             |            |   |   |  |  |
|--|-------------|------------|---|---|--|--|
| potassium of fatty acid                                      | Adult/nymph | 0.06       | 2 | 1 |  |  |
| Pyrethrins + Azadirachtin                                    | Adult/nymph | 1          | 3 | 1 |  |  |
| Pyriproxyfen 100g/l EC                                       | Adult/nymph | 0.1        | 1 |   |  |  |
| Pyrifluquinazon 20% SC                                       | Adult       | 0.03       | 1 |   |  |  |
| Silicon  | Adult/nymph | 0.15       | 4 | 1 |  |  |
| Silicon  | Eggs        | 0.15       | 1 |   |  |  |
| Spirotetramat 100g/l SC                                      | Adult/nymph | 0.5 - 0.1  | 1 |   |  |  |
| Spirotetramat 100 g/l SC + Synthetic terpenes of Chenopodium | Adult       | 0.6 + 0.5  | 4 | 1 |  |  |
| Spirotetramat 100 g/l SC + Neem oil                          | Adult/Nymph | 0.06 + 1   | 4 | 1 |  |  |
| Spirotetramat 100 g/l  | Adult       | 0.2        | 1 |   |  |  |
| Spirotetramat 100 g/l  | Adult       | 0.12       | 1 |   |  |  |
| Spirotetramat 100 g/l  | Adult       | 0.1        | 1 |   |  |  |
| Sucru-glycerds 80%   | Adult       | 1          | 1 |   |  |  |
| Synthetic terpenes of Chenopodium                            | Adult/nymph | 0.5        | 1 |   |  |  |
| Thiacloprid 240g/l OD  | Adult       | 0.04       | 1 |   |  |  |
| Thiocyclam hydrogen oxalate                                  | Adult/nymph | 0.07 - 0.1 | 3 | 1 |  |  |

### TARGETED PEST: APHIDS

| Active Ingredient       | Beneficial Life Cycle Stage | Dosage (%) | Direct Spray | Indirect Spray | Residual Effects/Day | Sublethal Effect |
|-------------------------|-----------------------------|------------|--------------|----------------|----------------------|------------------|
| Afidopyriopen DC 100g/l | Adult                       | 0.1        | 1            |                |                      |                  |
| Chlorpyrifus 479g/l EC  | Eggs                        | 0.25       | 1            |                |                      |                  |
| Chlorpyrifus            | Adult/nymph                 | 0.25       | 3            |                | 7                    |                  |
| Clothianidin 50%        | Adult/nymph                 | 0.05       | 4            |                |                      |                  |
| Dichlovos EC            | Adult/nymph                 | 0.1        | 3            |                | 1 to 3               |                  |
| Dichlovos               | Eggs                        | 0.1        | 1            |                |                      |                  |

|                                     |             |                   |         |         |    |  |
|-------------------------------------|-------------|-------------------|---------|---------|----|--|
| Dimethoate 400g/l EC                | Adult/nymph | 0.1               | Hvs -2  | Dr - 1  |    |  |
| Dinotefuran 20% SG                  | Adult/nymph | 0.1               | 1       |         |    |  |
| Endosulfan 350g/l EC                | Adult/nymph | 0.25 - 0.35       | 4       |         | 14 |  |
| Fatty acid 30% + Potassium salt 50% | Adult/nymph | 1                 | 2       | 1       |    |  |
| Flonicamid 50% SG                   | Adult/nymph | 0.015 - 0.02      | 1       |         |    |  |
| Flonicamid 50% SG + B.B.5           | Adult/nymph | 0.0015 -0.02 +0.2 | 1       |         |    |  |
| Flupyradifurone 200 S/L             | Adult/nymph | 0.1 - 0.15        | 1       |         |    |  |
| Flupyradifurone 200 S/L             | Adult/nymph | 0.08              | 1       |         |    |  |
| Imidacloprid 350g/l SC              | Adult/nymph | 0.05              | Hvs - 4 |         |    |  |
| Imidacloprid                        | Adult/nymph | 0.05              | Dr - 1  |         |    |  |
| Lambda Cyhalothrin 50 g/l CS        | Adult       | 0.25              | 1       |         |    |  |
| Malathion 25% WP                    | Adult/nymph | 0.05 - 0.1        | 2       |         | 14 |  |
| Malathion 500g/l EC                 | Eggs        | 0.05              | 2       |         | 14 |  |
| Methomil 90%                        | Adult/nymph | 0.1               | 4       |         | 21 |  |
| Methamidophos 600g/l SL             | Adult/nymph | 0.25              | 4       |         | 28 |  |
| Methidathion 420g/l EC              | Adult/nymph | 0.25              | 4       |         | 28 |  |
| Neem oil                            | Adult/nymph | 1%                | 1       |         |    |  |
| Oxydemeton - methyl                 | Adult/nymph | 0.1               | 4       |         | 28 |  |
| Pirimicarb 50% GR                   | Adult/nymph | 0.05              | 1       |         |    |  |
| Pirimicarb 50% GR                   | Adult/nymph | 0.05 - 0.065      | 1       |         |    |  |
| Potassium salt of fatty acid49%     | Adult/nymph | 0.5               | 1       |         |    |  |
| Pymetrozine 50% WG                  | Adult/nymph | 0.03 - 0.04       | 1       |         |    |  |
| Sophora japonica EC 1%              | Adult/nymph | 0.5               | 2       |         | 1  |  |
| Sulfoxaflor (Isoclast)              | Adult/nymph | 0.03              | 1       |         |    |  |
| Sulfoxaflor (Isoclast)              | Adult/nymph | 0.03              | 1       |         |    |  |
| Thiacloprid 480g/l SC               | Adult/nymph | 0.04              | 1       |         |    |  |
| Thiacloprid 480g/l SC               | Adult/nymph | 0.08              | 1       |         |    |  |
| Thiamethoxam 240g/l SC              | Adult/nymph | 0.02 - 0.06       | 3 - Hvs | Hvs - 2 | 21 |  |
| Thiamethoxam                        | Adult/nymph | 0.02 - 0.06       | Dr - 1  |         |    |  |

**TARGETED PEST: LEAFMINERS**

| Active Ingredient | Beneficial Life Cycle Stage | Dosage (%)  | Direct Spray | Indirect Spray | Residual Effects/Day | Sublethal Effect |
|-------------------|-----------------------------|-------------|--------------|----------------|----------------------|------------------|
| Abamectin         | Adult/nymph                 | 0.04 - 0.05 | 2            | 1              |                      |                  |
| Bifenthrin        | Adult/nymph                 | 0.05 - 0.1  | 4            |                | 28                   |                  |
| Cyromazine 75% Wp | Adult/nymph                 | 0.025 - 0.5 | 1            |                |                      |                  |
| Oxamil 240 g/l SL | Adult/nymph                 | 1 liter     | 1            |                |                      |                  |
| Spinetoram        | Adult/nymph                 | 0.04        | 3            | 2              | 3                    |                  |
| Spinosad          | Adult/nymph                 | 0.04 - 0.08 | 3            | 2              | 3                    |                  |

### TARGETED PEST: CATERPILLARS

| Active Ingredient                        | Beneficial Life Cycle Stage | Dosage (%)  | Direct Spray | Indirect Spray | Residual Effects/Day | Sublethal Effect |
|--|-----------------------------|-------------|--------------|----------------|----------------------|------------------|
| Acephate                                 | Adult/nymph                 | 0.1         | 4            |                | 28                   |                  |
| B. Thuringensis                          | Adult/nymph                 | 0.25 - 0.5  | 1            |                |                      |                  |
| B. Thuringensis                          | Adult/nymph                 | 0.8 - 1     | 1            |                |                      |                  |
| Beta - cyfluthrin                        | Adult/nymph                 | 0.1         | 4            |                | 28                   |                  |
| Chlorantraniliprole + Lambda cyhalothrin | Adult/nymph                 | 0.01        | 1            |                |                      |                  |
| Chlorantraniliprole 200g/l Sc            | Adult/nymph                 | 0.02 - 0.03 | 1            |                |                      |                  |
| Cyantraniliprole 100g/l                  | Adult/nymph                 | 0.15        | 1            |                |                      |                  |
| Cyfluthrin 50g/l                         | Adult/nymph                 | 0.1 - 0.15  | 4            |                |                      |                  |
| Cypermethrin 100g/l Ec                   | Adult/nymph                 | 0.05 - 0.1  | 4            |                |                      |                  |
| Deltamethrin 25g/l Ec                    | Adult/nymph                 | 0.05        | 1            |                |                      |                  |
| Deltamethrin 25g/l Ec                    | Adult                       | 0.05        | 1            |                |                      |                  |
| Diazinon 25% Ec + WP                     | Adult/nymph                 | 0.25 - 0.3  | 2            | Dr - 1         | 1 - 3                |                  |
| Esfenvalerate 50g/l                      | Adult/nymph                 | 0.1 - 0.15  | 4            |                | 28                   |                  |
| Fenthion 500g/l                          | Adult/nymph                 | 0.1         | 4            |                | 28                   |                  |

|                                       |             |             |         |   |    |  |
|---------------------------------------|-------------|-------------|---------|---|----|--|
| Flufenoxuron 100g/l SL                | Adult/nymph | 0.2         | 1       |   |    |  |
| Flubendiamide                         | Adult/nymph | 0.02        | 1       |   |    |  |
| Indoxacarb 150g/l Ec                  | Adult/nymph | 0.03 - 0.04 | 1       |   |    |  |
| Indoxacarb 150g/l SC                  | Adult/nymph | 0.03 - 0.05 | 1       |   |    |  |
| Lambda Cyhalothrin 50g/l Ec           | Adult/nymph | 0.1         | 4       |   | 28 |  |
| Lambda Cyhalothrin 50 g/l CS          | Adult       | 0.25        | 1       |   |    |  |
| Lufenuron 50g/l Ec                    | Adult/nymph | 0.04 - 0.05 | 1       |   |    |  |
| Metaflumizone 240 Sc                  | Adult/nymph | 0.05 - 0.1  | 1       |   |    |  |
| Methamidophos                         | Adult/nymph | 0.25 - 0.3  | 4       |   | 28 |  |
| Triflumuron 25%                       | Adult/nymph | 0.05 - 0.1  | 1       |   |    |  |
| Methomyl 90% Sp + SL                  | Adult/nymph | 0.1 - 0.2   | 4       |   | 21 |  |
| Methoxyfenozide 240 g/l               | Adult/nymph | 0.05 - 0.1  | 1       |   |    |  |
| Novaluron 100g/l Ec                   | Adult/nymph | 0.05 - 0.1  | 1       |   |    |  |
| Novaluron 100g/l +<br>Acetameprid 80  | Adult       | 0.05        | 1       |   |    |  |
| Nuceopolyhedrovirus                   | larva       | 0.04        | 1       |   |    |  |
| Pyridalyl 500g/l Ec                   | Adult/nymph | 0.2 - 0.25  | 1       |   |    |  |
| Pyridalyl 500g/l Ec                   | Adult/nymph | 0.1         | 1       |   |    |  |
| Sodium Fluosilicate 15% Gr            | Adult/nymph | 0.5 - 1K"g  | 1       |   |    |  |
| Spinosad 120- 480g/l SC               | Adult/nymph | 0.04 - 0.08 | 3       | 1 |    |  |
| Tau-Fluvalinate 240 g/l WE            | Adult       | 0.1         | 2       |   |    |  |
| Tau-Fluvalinate 240 g/l WE            | Adult       | 0.2         | 3       |   |    |  |
| Teflubenzuron 150g/l Sc               | Adult/nymph | 0.04 - 0.05 | 1       |   |    |  |
| Thiamethoxam +<br>Chlorantraniliprole | Adult/nymph | 0.03        | Dr' - 1 | 1 |    |  |

## TARGETED PEST: NEMATODES

| Active Ingredient          | Beneficial Life Cycle Stage | Dosage (%) | Direct Spray | Indirect Spray | Residual Effects/Day | Sublethal Effect |
|----------------------------|-----------------------------|------------|--------------|----------------|----------------------|------------------|
| Abamectin 20g/l + Fe EDDHA | Adult/nymph                 | 4 - 6 L/ H | 1            |                |                      |                  |



|                  |             |   |   |  |  |  |
|------------------|-------------|---|---|--|--|--|
| Cadusafos 200g/l | Adult/nymph | 1 | 1 |  |  |  |
| Oxamil 100g/l    | Adult/nymph | 1 | 1 |  |  |  |

### TARGET: PHYTOPHTHORA - D. MILDOW

| Active Ingredient   | Beneficial Life Cycle Stage | Dosage (%)         | Direct Spray | Indirect Spray | Residual Effects/Day | Sublethal Effect |
|---|-----------------------------|--------------------|--------------|----------------|----------------------|------------------|
| Chlorothalonil + Azoxystrobin                                     | Adult/nymph                 | 0.1 - 0.2          | 1            |                |                      |                  |
| Chlorothalonil 720g/l   | Adult/nymph                 | 0.2 - 0.35         | 1            |                |                      |                  |
| Chlorothalonil 400g/l + Demthom                                   | Adult/nymph                 | 0.35               | 1            |                |                      |                  |
| Chlorothalonil 720g/l   | Adult/nymph                 | 0.15 - 0.35        | 1            |                |                      |                  |
| Copper Oxychloride + Propineb                                     | Adult/nymph                 | 0.3                | 1            |                |                      |                  |
| Copper Sulphate + Mancozeb  | Adult/nymph                 | 0.25               | 1            |                |                      | Fertility Impact |
| Copper Hydroxide 53.8%  | Adult/nymph                 | 0.05 - 0.2         | 2            |                |                      |                  |
| Copper Hydroxide 77%  | Adult/nymph                 | 0.3                | 1            |                |                      |                  |
| Chlorothalonil 500 + Mefenoam                                     | Adult/nymph                 | 0.25               | 1            |                |                      |                  |
| Cymoxanil 50% + Metalaxyl-Mefenoxam SL + Cyprodinil + Fludioxonil | Adult/nymph                 | 0.1 + 0.025 + 0.06 | 1            |                |                      |                  |
| Cymoxanil 50% + Metalaxyl-Mefenoxam SL + Penconazole              | Adult/nymph                 | 0.1 + 0.025 + 0.06 | 3            |                |                      |                  |
| Cymoxanil 45%   | Adult/nymph                 | 0.06 - 0.1         | 1            |                |                      |                  |
| Cymoxanil 60%   | Adult/nymph                 | 0.02 - 0.1         | 1            |                |                      |                  |
| Cymoxanil   | Adult/nymph                 | 0.25               | 1            |                |                      |                  |
| Cyprodinil + fludioxonil + Folpet 80% + Ascophylum nodosum        | Adult                       | 0.2 + 0.25 + 0.1   | 1            |                |                      |                  |

|   |             |                   |   |  |   |                  |
|---|-------------|-------------------|---|--|---|------------------|
| Dimethomorph + Mancozeb                                       | Adult/nymph | 0.6               | 4 |  | 3 | Fertility Impact |
| Dimetomorph 9% + Mancozeb 60                                  | Adult/nymph | 0.2 - 0.3         | 4 |  | 3 | Fertility Impact |
| Dimethomorph 50% + Potassium Phosphite 780g/l + Cymoxanil 50% | Adult       | 0.05 + 0.35 + 0.1 | 1 |  |   |                  |
| Dimethomorph 50% +Cymoxanil 50% + Fluopyram - Pyrimethanil    | Adult       | 0.05 + 0.1 + 0.12 | 1 |  |   |                  |
| Dimethomorph + Pyraclostrobin                                 | Adult/nymph | 0.2 - 0.3         | 1 |  |   |                  |
| Dimethomorph 500g/l   | Adult/nymph | 0.04 - 0.05       | 1 |  |   |                  |
| Dimethomorph + Chlorothalonil                                 | Adult/nymph | 0.25              | 1 |  |   |                  |
| Famoxadone 300 g/l + Oxathiapiprolin 30 g/l                   | Adult       | 0.1               | 1 |  |   |                  |
| Folpet  | Adult/nymph | 0.25              | 1 |  |   |                  |
| Fosetyl Aluminium 50% -Folpet 25%                             | Adult       | 0.3               | 1 |  |   |                  |
| Fosethyl Aluminium 80%  | Adult/nymph | 0.2               | 2 |  | 2 |                  |
| Fluopicolide 62+ Propamocarb                                  | Adult/nymph | 0.15              | 1 |  |   |                  |
| Mancozeb 50% + Fenamidone 10                                  | Adult/nymph | 0.15              | 2 |  |   |                  |
| Mancozeb 50% + Fenamidone 11                                  | Adult       | 0.1               | 1 |  |   |                  |
| Mancozeb 50% + Fenamidone 10                                  | Adult/nymph | 0.05              | 1 |  |   |                  |
| Mancozeb 64% + Matalaxyl-M68                                  | Adult/nymph | 0.3               | 1 |  |   | Fertility Impact |
| Mancozeb  | Adult/nymph | 0.25 - 0.35       | 4 |  |   | Fertility Impact |
| Mancozeb  | Adult/nymph | 0.25              | 4 |  |   | Fertility Impact |

|  |             |             |   |  |  |                  |
|--|-------------|-------------|---|--|--|------------------|
| Mancozeb 75 - 80%  | Adult/nymph | 0.25        | 4 |  |  | Fertility Impact |
| Mancozeb 57.2% + Cymoxanil 14                                  | Adult/nymph | 0.35        | 4 |  |  | Fertility Impact |
| Mancozeb 56% + Metalaxl 7.5%                                   | Adult/nymph | 0.3         | 1 |  |  | Fertility Impact |
| Mancozeb + Benalaxyl   | Adult/nymph | 0.3         | 1 |  |  | Fertility Impact |
| Mancozeb 62% + Famoxadone                                      | Adult/nymph | 0.15        | 1 |  |  | Fertility Impact |
| Mandipropamid 5% + Mancozeb                                    | Adult/nymph | 0.2 - 0.25  | 1 |  |  | Fertility Impact |
| Mandipropamid 250g/l   | Adult/nymph | 0.06        | 1 |  |  |                  |
| Maneb  | Adult/nymph | 0.25        | 1 |  |  |                  |
| Maneb 75%  | Adult/nymph | 0.25        | 1 |  |  |                  |
| Manev  | Adult/nymph | 0.25        | 1 |  |  |                  |
| Maneb 480 g/l  | Adult/nymph | 0.25        | 1 |  |  |                  |
| Metalaxyl-M 480g/l   | Adult/nymph | 0.04 - 0.08 | 1 |  |  |                  |
| Metalaxyl-m 2.5% + Copper                                      | Adult/nymph | 0.4         | 1 |  |  |                  |
| Metalaxyl - Mefenoxam  | Adult/nymph | 0.03        | 1 |  |  |                  |
| Metalaxyl-M+Chlorothalonil                                     | Adult/nymph | 0.25        | 1 |  |  |                  |
| Metiram 70%  | Adult/nymph | 0.25        | 1 |  |  |                  |
| Oxathiapiprolin 30 g/l<br>+Benthiavdicarb - Isopropyl<br>70g/l | Adult       | 0.05        | 1 |  |  |                  |
| Propamocarb + Fenamidone 75                                    | Adult/nymph | 0.2         | 1 |  |  |                  |
| Propamocarb HCL 722g/l   | Adult/nymph | 0.2 - 0.3   | 1 |  |  |                  |
| Propineb 70%   | Adult/nymph | 0.25        | 1 |  |  |                  |
| Propineb 70%   | Adult/nymph | 0.25 - 0.3  | 1 |  |  |                  |
| Propineb 61% + Iprovalicarb<br>5.5%                            | Adult/nymph | 0.25 - 0.35 | 1 |  |  |                  |
| Potassium Phosphite 500  | Adult/nymph | 0.35 - 0.45 | 1 |  |  |                  |
| Potassium Phosphite 500  | Adult/nymph | 0.35        | 1 |  |  |                  |

|                          |             |            |   |  |  |  |
|--------------------------|-------------|------------|---|--|--|--|
| Zoxamide 8.3% + Mancozeb | Adult/nymph | 0.15 - 0.2 | 4 |  |  |  |
|--------------------------|-------------|------------|---|--|--|--|

**TARGET: POWDERY MILDEW**

| Active Ingredient                                    | Beneficial Life Cycle Stage | Dosage (%)        | Direct Spray | Indirect Spray | Residual Effects/Day | Sublethal Effect |
|--|-----------------------------|-------------------|--------------|----------------|----------------------|------------------|
| Azoxystrobin 250g/l Sc                               | Adult/nymph                 | 0.05              | 1            |                |                      |                  |
| Bacillus subtilis                                    | Adult/nymph                 | 0.5 - 1.0         | 1            |                |                      |                  |
| Benomil  | Adult                       | 0.05              | 4            | 2              |                      | Fertility Impact |
| Boscalid   | Adult/nymph                 | 0.08              | 1            |                |                      |                  |
| Bromuconazole  | Adult/nymph                 | 0.04 - 0.05       | 1            |                |                      |                  |
| Bupirimate   | Adult/nymph                 | 0.1               | 3            | 1              |                      | Fertility Impact |
| Bupirimate 116 g/l + Tebuconazole 47 g/l             | Adult                       | 0.05              | 1            |                |                      |                  |
| Carbendazim 50%                                      | Adult                       | 0.04 - 0.08       | 1            |                |                      |                  |
| Chlorothalonil + Azoxystrobin                        | Adult/nymph                 | 0.15 - 0.2        | 1            |                |                      |                  |
| Copper sulphate + Potassium hydrogen carbonate       | Adult/nymph                 | 1%                | 1            |                |                      |                  |
| Cyproconazole 100g                                   | Adult/nymph                 | 0.04 - 0.05       | 1            |                |                      |                  |
| Cyflufenamid 50g                                     | Adult/nymph                 | 0.02              | 1            |                |                      |                  |
| Cymoxanil 50% + Metalaxyl-Mefenoxam SL + Penconazole | Adult/nymph                 | 0.1 + 0.025 +0.06 | 3            |                |                      |                  |
| Cyproconazole + Azoxystrobin                         | Adult/nymph                 | 0.025 - 0.04      | 1            |                |                      |                  |
| Difenoconazole                                       | Adult/nymph                 | 0.015 - 0.02      | 1            |                |                      |                  |
| Extract of Reynoutria Sachalinesis                   | Adult                       | 0.5               | 1            |                |                      |                  |
| Fenarimol  | Adult/nymph                 | 0.02              | 1            |                |                      |                  |
| Fenbuconazole + Dinocap                              | Adult/nymph                 | 0.04              | 1            |                |                      |                  |
| Fenbuconazole  | Adult/nymph                 | 0.04              | 1            |                |                      |                  |

|  |             |              |   |  |  |  |
|--|-------------|--------------|---|--|--|--|
| Fluopyram 250 +<br>Pyridylethylamid250 | Adult       | 0.032        | 1 |  |  |  |
| Fluopiram                              | Adult/nymph | 0.05 - 0.08  | 1 |  |  |  |
| Fluopyram + Pyrimethanil               | Adult/nymph | 0.075        | 1 |  |  |  |
| Fluopiram + Tebuconazole               | Adult/nymph | 0.03         | 1 |  |  |  |
| Flusilazole 400g                       | Adult/nymph | 0.005        | 1 |  |  |  |
| Flutriafol 125g                        | Adult/nymph | 0.1          | 1 |  |  |  |
| Iminoctadine Tris                      | Adult/nymph | 0.05         | 1 |  |  |  |
| Kresoxim -methyl 50%                   | Adult/nymph | 0.02         | 1 |  |  |  |
| Kresoxim -methyl SC                    | Adult/nymph | 0.015        | 1 |  |  |  |
| Kresoxim-methyl 100 +<br>Boscalid 200g | Adult/nymph | 0.03 - 0.05  | 1 |  |  |  |
| Kumulus df                             | Adult/nymph | 0.4 - 0.7    | 1 |  |  |  |
| Metrafenone 500g/l                     | Adult/nymph | 0.04         | 1 |  |  |  |
| Metominostrobin                        | Adult/nymph | 0.03         | 1 |  |  |  |
| Mineral oil 97.2%                      | Adult/nymph | 1%           | 1 |  |  |  |
| Myclobutanil + Dinocap                 | Adul/nymph  | 0.03         | 1 |  |  |  |
| Myclobutanil                           | Adult/nymph | 0.04 - 0.05  | 1 |  |  |  |
| Neem oil                               | Adult/nymph | 1%           | 1 |  |  |  |
| Penconazole                            | Adult/nymph | 0.025 - 0.05 | 1 |  |  |  |
| Penconazole                            | Adult/nymph | 0.025 - 0.05 | 1 |  |  |  |
| Potassium bicarbonate                  | Adult/nymph | 0.1          | 1 |  |  |  |
| Polyxin B 10%                          | Adult/nymph | 0.1          | 1 |  |  |  |
| Polyoxin B                             | Adult/nymph | 0.1          | 1 |  |  |  |
| Polyoxin AI 50%                        | Adult/nymph | 0.025        | 1 |  |  |  |
| Proquinazid 200g                       | Adult/nymph | 0.02 - 0.03  | 1 |  |  |  |
| Pyraclostrobin + boscalid              | Adult/nymph | 0.04 - 0.075 | 1 |  |  |  |
| Pyraclostrobin + boscalid              | Adult/nymph | 0.05 - 0.075 | 1 |  |  |  |
| Pyriofenone 300 S.C                    | Adult       | 0.05         | 1 |  |  |  |
| Quinoxifen 250g/l Sc                   | Adult/nymph | 0.02         | 1 |  |  |  |
| Sulfur 80%                             | Adult/nymph | 0.75 - 1     | 1 |  |  |  |
| Sulfur 800 g/l SC                      | Adult/nymph | 0.75         | 1 |  |  |  |
| Suuphur 80%                            | Adult/nymph | 0.2 - 0.4    | 1 |  |  |  |

|                               |             |             |   |  |  |  |
|-------------------------------|-------------|-------------|---|--|--|--|
| Sulfor 80%                    | Adult/nymph | 0.5 - 1.0   | 1 |  |  |  |
| Sulfur S.C 700                | Adult       | 1           | 1 |  |  |  |
| Sulfur 825g                   | Adult/nymph | 0.8         | 1 |  |  |  |
| Spiroxamine                   | Adult/nymph | 0.05        | 1 |  |  |  |
| Tea tree oil (M.Alternifolia) | Adult/nymph | 0.4         | 1 |  |  |  |
| Tebuconazole +Trifloxyst      | Adult/nymph | 0.025       | 1 |  |  |  |
| Triadimenol 250g              | Adult/nymph | 0.01 - 0.04 | 1 |  |  |  |
| Triadimenol 250g              | Adult/nymph | 0.01 - 0.05 | 1 |  |  |  |
| Triadimefon 25%               | Adult/nymph | 0.02 - 0.03 | 1 |  |  |  |
| Triforine                     | Adult/nymph | 0.05 - 0.08 | 1 |  |  |  |
| Trifloxystrobin 500g          | Adult/nymph | 0.01 - 0.02 | 1 |  |  |  |
| Tetraconazole 100g            | Adult/nymph | 0.04 - 0.1  | 1 |  |  |  |
| Tetraconazole + Sulfur        | Adult/nymph | 0.3 - 0.5   | 1 |  |  |  |

## TARGET: BOTRYTIS CINEREA

| Active Ingredient   | Beneficial Life Cycle Stage | Dosage (%)         | Direct Spray | Indirect Spray | Residual Effects/Day | Sublethal Effect |
|---|-----------------------------|--------------------|--------------|----------------|----------------------|------------------|
| Bacillus subtilis   | Adult/nymph                 | 1kg                | 1            |                |                      |                  |
| Carbendazim + Diethofencarb                                       | Adult/nymph                 | 0.05 - 0.1         | 1            |                |                      |                  |
| Chlorothalonil  | Adult/nymph                 | 0.035 - 0.5        | 1            |                |                      |                  |
| Cymoxanil 50% + Metalaxyl-Mefenoxam SL + Cyprodinil + Fludioxonil | Adult/nymph                 | 0.1 + 0.025 + 0.06 | 1            |                |                      |                  |
| Cyprodinil + fludioxonil  | Adult/nymph                 | 0.06               | 1            |                |                      |                  |
| Fenpyrazamine 50%   | Adult/nymph                 | 0.2                | 1            |                |                      |                  |
| Fenhexamid  | Adult/nymph                 | 0.15               | 1            |                |                      |                  |
| Folpet + Prochloraz Zinc  | Adult/nymph                 | 0.3                | 1            |                |                      |                  |
| Fluopyram + Pyrimethanil  | Adult/nymph                 | 0.075              | 1            |                |                      |                  |
| Iprodione   | Adult/nymph                 | 0.01               | 1            |                |                      |                  |
| Mepanipyrim   | Adult/nymph                 | 0.1                | 1            |                |                      |                  |

|                    |             |           |   |  |  |  |
|--------------------|-------------|-----------|---|--|--|--|
| Penthiopyrad 20 CL | Adult/nymph | 0.1       | 1 |  |  |  |
| Polyoxim b 10%     | Adult/nymph | 0.1 - 0.2 | 1 |  |  |  |
| Pyrimethanil       | Adult/nymph | 0.25      | 1 |  |  |  |

### TARGET: FOLIAGE DISEASE

| Active Ingredient                        | Beneficial Life Cycle Stage | Dosage (%)    | Direct Spray | Indirect Spray | Residual Effects/Day | Sublethal Effect |
|--|-----------------------------|---------------|--------------|----------------|----------------------|------------------|
| Carbendazim 50%                          | Adult/nymph                 | 0.04 - 0.08   | 4            | 2              |                      | Fertility Impact |
| Chlorothalonil + Azoxystrobin            | Adult/nymph                 | 0.15 - 0.2    | 1            |                |                      |                  |
| Chlorothalonil WG                        | Adult/nymph                 | 0.15 - 0.2    | 1            |                |                      |                  |
| Chlorothalonil                           | Adult/nymph                 | 0.2 - 0.35    | 1            |                |                      |                  |
| Copper Hydroxide 77%                     | Adult/nymph                 | 0.3           | 2            |                |                      |                  |
| Copper Hydroxide 77%                     | Adult/nymph                 | 0.3 - 0.5     | 1            |                |                      |                  |
| Copper Sulphate 40%                      | Adult/nymph                 | 0.25          | 1            |                |                      |                  |
| Cyproconazole 100g                       | Adult/nymph                 | 0.04 - 0.05   | 1            |                |                      |                  |
| Difenoconazole 250gr                     | Adult/nymph                 | 0.05 - 0.075  | 1            |                |                      |                  |
| Difenoconazole 250gr                     | Adult/nymph                 | 0.05 - 0.075  | 1            |                |                      |                  |
| Difenoconazole 250gr                     | Adult/nymph                 | 0.05 - 0.1    | 1            |                |                      |                  |
| Diniconazole m 12.5%                     | Adult/nymph                 | 0.04          | 1            |                |                      |                  |
| Dithianon 500g                           | Adult/nymph                 | 0.1           | 1            |                |                      |                  |
| Flusilazle 400g/l                        | Adult/nymph                 | 0.003 - 0.005 | 1            |                |                      |                  |
| Mancozeb 62.5 + Femoxadone               | Adult/nymph                 | 0.1 - 0.15    | 4            |                |                      | Fertility Impact |
| Mancozeb 80%                             | Adult/nymph                 | 0.25 - 0.35   | 1            |                |                      | Fertility Impact |
| Potassium Phosphite + Copper Oxychloride | Adult/nymph                 | 0.4           | 1            |                |                      |                  |
| Prochloraz 450g/l                        | Adult/nymph                 | 0.2 - 0.3     | 1            |                |                      |                  |
| Prochloraz Manganese 50%                 | Adult/nymph                 | 0.2           | 1            |                |                      |                  |

|                                |             |              |   |  |  |  |
|--------------------------------|-------------|--------------|---|--|--|--|
| Propineb 70%                   | Adult/nymph | 0.25         | 1 |  |  |  |
| Pyraclostrobin 12.8+Boscalid25 | Adult/nymph | 0.04 - 0.075 | 1 |  |  |  |
| Tebuconazole                   | Adult/nymph | 0.05 - 0.1   | 1 |  |  |  |
| Tebuconazole 250g              | Adult/nymph | 0.075 - 0.1  | 1 |  |  |  |
| Tebuconazole 250g              | Adult/nymph | 0.075 - 0.2  | 1 |  |  |  |

## TARGET: ROOT DISEASE

| Active Ingredient                | Beneficial Life Cycle Stage | Dosage (%)  | Direct Spray | Indirect Spray | Residual Effects/Day | Sublethal Effect |
|----------------------------------|-----------------------------|-------------|--------------|----------------|----------------------|------------------|
| Copper Sulphate + Potasphosphite | Adult/nymph                 | 1%          | 1            |                |                      |                  |
| Fluazinam                        | Adult/nymph                 | 0.05        | 1            |                |                      |                  |
| Fludioxonil 100g/l               | Adult/nymph                 | 0.2         | 1            |                |                      |                  |
| Fludioxonil                      | Adult/nymph                 | 0.04 - 0.05 | 1            |                |                      |                  |
| Hymexazol                        | Adult/nymph                 | 0.1         | 1            |                |                      |                  |
| Pencycuron 250g/l                | Adult/nymph                 | 0.5         | 1            |                |                      |                  |
| Pentachloronitrobenzene - Pc     | Adult/nymph                 | 1%          | 1            |                |                      |                  |
| Prochloraz Manganese 50%         | Adult/nymph                 | 0.1 - 0.2   | 1            |                |                      |                  |
| Propamocarb Hcl                  | Adult/nymph                 | 0.15        | 1            |                |                      |                  |
| Tolclofos Methyl 50%             | Adult/nymph                 | 0.1 - 0.2   | 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.