

Neonicotinoid-Free Consumer Pesticide Products

Maryland citizens, scientists, beekeepers and healthcare advocates, are alarmed about the widespread use of neonicotinoid pesticides (aka neonics) now in hundreds of home and garden consumer products. Neonics have been confirmed to contribute to honey bee mortality, declines in native pollinators, birds and aquatic life; are linked to the death of molting blue crabs; and pose a risk to human health. Neonics also kill beneficial insects, making landscapes chemically dependent for insect control.

THERE ARE OVER 290 **NEONIC-FREE** PRODUCTS FOR COMMON PESTS THAT ARE SAFER FOR HONEYBEES.

Here is a sample list of neonicotinoid-free products for 30 of the most common home & garden pests

Resources: PRI Product Evaluator, Beyond Pesticides, Xerces Society ; PRI [Product Evaluator available for mobile](#) through iTunes store)

| Insect Pest | # of Neonic-Free Tier 3 Products | Neonic-Free Products of Least Concern to Honey Bees | | | | | |
|---------------------------------------|----------------------------------|--|----------------------------------|--|--|--|--|
| | | <i>* Neonic-free products which may be linked to health and/or other wildlife and aquatic impacts are marked with asterisk</i> <i>** Insecticidal soaps, horticultural oils & limonene are low risk to bees if applied at night, when bees are inactive</i> | | | | | |
| Ants | 53 | Drax Liquidator Ant Bait | Gourmet Ant Bait Gel | Safer Brand Ant & Crawling Insect Killer | Cinnacure A3005 | EcoPCO ACU | Mint oil, cedar oil, orange oil garlic spray |
| Aphids | 33 | Essentria IC3 | Aphid-Pruf | BFR 440 Supreme Spray Oil | Cinnacure A3005 | Clean Crop Supreme Oil | Insecticidal soaps, Neem oil |
| Fleas | 20 | Eaton's Answer Boric Acid Insecticidal Dust (indoor use) | Dri-out Insecticide | Diatomaceous earth (indoor use), Silica aerogel, Boric acid | EcoSmart Insect Killer for Lawns & Landscapes | ** Whitmire Micro-Gen TC 232 | EcoPCO ACU |
| Flies | 25 | Vector 960 | BMP 144 | Cinnacure A3005 | EcoSmart Insect Killer Spray for Lawns & Landscapes | ** Whitmire Micro-Gen TC 232 | * RF 9707 AEROSOL |
| Hornets, Wasps, Yellow Jackets | 11 | Essentria IC3 | ** Whitmire Micro-Gen TC 232 | Rescue W·H·Y Trap for Wasps, Hornets & Yellowjackets | Soap and water, Enzyme solution (such as Super C Professional) | EcoPCO ACU | Silica aerogel, Acetic acid, Boric acid, Peppermint oil |
| Japanese Beetles | 5 | Bag-A-Bug Japanese Beetle Trap | Surefire Japanese Beetle Trap | EcoPCO ACU | Milky spore | | |
| Mosquitoes | 35 | Bonide Mosquito Beater WSP | BMP 144 | Cutter Natural Insect Repellent | Vectobac – AS or 12As Biologic Larvicide | Bacillus Thuringiensis, Citronella oil, Linalool, Oil of Lemon Eucalyptus, | EcoPCO ACU |
| Roaches | 41 | Gourmet Ant Bait Gel | Safer Roach & Ant Killing Powder | EcoSmart Ant & Roach Killer | Dri-out Insecticide | EcoPCO ACU | Redzone Bait |
| Spiders | 12 | EcoSmart Spider Blaster | Dri-out Insecticide | ** Whitmire Micro-Gen TC 232 | EcoSmart Insect Killer Spray for Lawns & Landscapes | EcoPCO ACU | Sticky traps |
| Termites | 290 | BorActin Insecticide Powder | Aphid-Pruf | Bonide Bacillus Thuringiensis (BT) Moth Larvae (Caterpillar) Control | Zone Defense | Agent Gold | Silica aerogel, Boric acid, Metarhizium anisoplae, Nematodes |

Understanding Pesticide Hazard Tier Rating* The LEED-compliant pesticide product Hazard Tier Rating system, Pesticide Product Hazard Tier rankings, allow consumers and property managers to make informed decisions about choosing less toxic neonicotinoid –free pesticide products. (PRI Hazard Tier Evaluator, www.pesticideresearch.com)



Hazard Tier 1 – HIGHEST CONCERN - Over 230 products contain neonicotinoids are rated Tier 1

The formulated product is listed by US EPA as a Restricted Use Product (RUP), and/or is highly toxic to people, fish or other aquatic life, birds, wildlife, or honey bees.



Hazard Tier 2 – MODERATE CONCERN - Over 30 products contain neonicotinoids are rated Tier 2

The formulated product is moderately toxic to people, fish or other aquatic life, birds, wildlife, or honey bees.



Hazard Tier 3 – LOWER CONCERN - Over 290 products (none contain neonicotinoids) are rated Tier 3

The formulated product is listed as low acute toxicity and/or has no warnings about toxicity to honey bees.

Neonicotinoid chemical names include: **Acetamiprid, Clothianidin, Dinotefuran, Imidacloprid, Nitenpyram (commonly sold as Capstar), Thiacloprid and Thiamethoxam.**

Additional neonicotinoid-free products for common home & garden pests:

| Insect Pest | # of Neonic-Free Tier 3 Products | Neonic-Free Products of Least Concern to Humans, Honey Bees & Wildlife | | | | |
|----------------------------------|----------------------------------|--|---|--|--|--|
| | | * Low concern neonic-free products which may be linked to health and/or wildlife and aquatic impacts are marked with asterisk ** Insecticidal soaps, horticultural oils & limonene are low risk to bees if applied at night, when bees are inactive | | | | |
| Adelgids | 10 | ** Civitas | Golden Pest Spray Oil | Leaf Life Gavicide Green 415 | ** Orange Guard for Ornamental Plants | Purespray Green, Horticultural oils, Insecticidal soaps |
| Beetles | 5 | Essentria IC3 | Golden Pest Spray Oil | NEU 1160 Vegetable Oil Insecticide | Purespray Green or Purespray Spray Oil 10 E | Boric acid |
| Centipedes, Millipedes & Sowbugs | 12 | T*A*P* (indoor use) | Mosquito & Tick Control Yard Pro-tection Concentrate | EcoPCO ACU | Boric acid | ** Whitmire Micro-Gen TC 232 |
| Crickets & Katydid | 22 | Redzone Bait | Safer Brand Garden Fungicide, Insecticide & Miticide Ready-to-Use | Mosquito & Tick Control Yard Protection Concentrate | Essentria IC3 | ** Whitmire Micro-Gen TC 232 |
| Cutworms, Armyworms | 26 | Agree 50 WP or Agree WG | Bonide Dipem 150 Dust for Vegetables | Cinnacure A3005 | Golden Pest Spray Oil | Dipel Regular or 2X Biological Insecticide Wettable Powder |
| Earwigs & Springtails | 17 | Redzone Bait | Safe Brand Garden Fungicide, Insecticide & Miticide Read-to-Use Spray | EcoPCO ACU | Essentria IC3 | Surround WP Crop Protectant |
| Grubs & Maggots | 9 | Cinnacure A3005 | Prokil Cryolite 50 Dust | Bacillus Thuringiensis, Milky spore, Nematodes | Surround WP Crop Protectant | Zone Defense |
| Lace Bugs | 13 | Golden Pest Spray Oil | Leaf Life Gavicide Green 415 | Safer Brand Garden Fungicide, Insecticide, & Miticide Ready-to-Use Spray | Surround WP Crop Protectant | Purespray Green and Purespray Spray Oil 10E |
| Leafhopper | 14 | Cinnacure A3005 | Golden Pest Spray Oil | Safer Brand Garden Fungicide, Insecticide & Miticide Read-to-Use Spray | Ringer Aphid Mite Attack/Fruit & Vegetable | Purespray Green and Purespray Spray Oil 10E |
| Locusts & Grass-hoppers | 6 | Essentria IC3 | Prokil Cryolite 96 or 50 Dust | Surround WP Crop Protectant | EcoPCO ACU | |
| Loopers | 22 | Agree 50 WP or Agree WG | Cinnacure A3005 | * BT 320 Sulfur 25 Dust | Dipel Regular or 2X Biological Insecticide Wettable Powder or Dipel Bio Garden Spray or Dipel WP Home & Garden Insecticide | Bonide Bacillus Thuringiensis (BT) Moth Larvae (Caterpillar) Control |
| Midges | 7 | BPM 144 (2X) | BMP 144 | KBR 3023 All-family Insect Repellant Non-aerosol Spray | * Agnique MMF GR Mosquito Liquid | Vectobac 12AS Biological Larvicide |
| Mites | 71 | BFR 440 Supreme Spray oil | Safer Brand Garden Fungicide, Insecticide & Miticide Ready-to-Use | BFR 440 Supreme Spray Oil | Cinnacure A3005 | ** Orange Guard for Ornamental Plants |
| Psylla & Psyllids | 22 | BFR 440 Supreme Spray Oil | Britz 415 or Supreme Spray Oil | Gavicide Super 90 | Golden Pest Spray Oil | Purespray Green or Purespray Spray Oil |
| Scale Insects | 29 | BFR 440 Supreme Spray Oil | Britz 415 Supreme Oil or Spray Oil | Cinnacure A3005 | Safer Brand Garden Fungicide, Insect-icide & | ** Orange Guard for Ornamental Plants |

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|---------------------|-----------|--|--------------------------------------|--|-----------------------------|--|
| | | | | | Miticide Ready-to-Use Spray | |
| Thrips | 33 | Golden Pest Spray Oil | Dusting Sulfur Fungicide-Insecticide | Cosavet DF | BFR 440 Supreme Spray Oil | Cinnacure A3005 |
| Webworms | 23 | Bonide Bacillus Thuringiensis (BT) Moth Larvae (Caterpillar) Control | Bonide Dipem 150 Dust for Vegetables | Dipel Regular or 2X Biological Insecticide Wettable Powder or Dipel Bio Garden Spray I | Golden Pest Spray Oil | Purespray Green or Purespray Spray Oil 10E |
| Weevils | 17 | Prokil Cryolite 50 Dust | Agree 50 WP | Cinnacure A3005 | EcoPCO ACU | Essentria IC3 |
| Whiteflies | 25 | Golden Pest Spray Oil | Aphid-Pruf | Cinnacure A3005 | Gavicide Super 90 | Insecticidal soap, sticky tape and cards |
| Wood-boring Beetles | 19 | Prokil Cryolite 96 | Cinnacure A3005 | * Board Defense | Beetleblock-Verbenone | * Sunspray 6E |