

Insect control products approved for use by organic growers, OMRI^{a, b} (Organic Materials Review Institute)

Generic category on OMRI list	General mode of action	Target pest	Representative Product Name
pheromones	Insect behavior disruptant (mating disruption)	Moths of certain species only	• Isomate-C Plus (codling moth) • NoMate CM-O Spiral
virus sprays	Insect pathogen (viruses)	Caterpillars of certain species only	• Cyd-X, Virosoft CP4 (codling moth) • Madex (codling & oriental fruit moths) • GemStar (corn earworm)
<i>Bacillus thuringiensis</i>	Insect pathogen (bacterium); midgut membrane disruptor	Caterpillars of all species	• Javelin; DiPel; BioBit; Condor; Deliver; Thuricide (<i>B.t. kurstaki</i>) • XenTari; Agree (<i>B.t. aizawai</i>)
		Colorado potato beetle	• Trident (<i>B.t. tenebrionis</i>)
microbial products (also <i>Bacillus thuringiensis</i>)	Insect pathogen (bacterium); midgut membrane disruptor	Caterpillars of all species	• DiPel DF (<i>Bacillus thuringiensis</i>)
biological controls	Insect pathogen (nematodes)	Soil pests	• Grub Guard (Steinernematids & heterorhabdits)
microbial pesticides; <i>Beauveria spp.</i>	Insect pathogen (fungus)	Aphids, whiteflies, thrips, plant bugs, beetles	• Mycotrol; BioCeres; BoteGHA (<i>Beauveria bassiana</i>)
microbial pesticides	Insect pathogen (fungus)	Whiteflies, aphids, thrips, mites	• PFR-97 (<i>Isaria fumosorosea</i>) • NoFly (<i>Paecilomyces fumosoroseus</i>)
biopesticides	Insect pathogen (<i>Nosema</i> ; protozoan)	Grasshoppers	• Semaspore Bait
microbial products	Microbially derived degrader of exoskeleton	Broad spectrum ^c	• Venerate (<i>Burkholderia spp.</i>)
biopesticides	Microbially derived stomach poison	Broad spectrum ^c	• Grandevo (<i>Chromobacterium subtsugae</i>)
spinosad	Microbially derived nerve poison	Caterpillars, thrips, certain beetles	• Entrust • Monterey Garden Insect Spray
soap – pesticide	Smothering agent (salts of fatty acids)	Aphids and other soft-bodied insects	• M-Pede; DES-X; Safer's Insecticidal Soap
oils, petroleum-based, narrow range	Smothering agent (from petroleum)	Leafhoppers, mites, whiteflies	• Saf-T-Side • Organic JMS Stylet-Oil • PureSpray GREEN (mineral oil)
oils, non-synthetic sources	Smothering agent (from plants)	Eggs, mites, aphids, whiteflies	• Vegol (canola oil) • Golden Pest Spray Oil (soybean oil)
botanical pesticides		Broad spectrum ^c	• Organocide (sesame oil) • Ecotec; Ecotrol (rosemary & peppermint oils & geraniol)
neem extract and derivatives	Botanical repellent (adults) & insect growth regulator (immatures)	Broad spectrum ^c	Azadirachtin: • Aza-Direct; AzaGuard; Azatrol; Neemix; Ecozin; Molt-X; AzaSol
			Neem oil: • Trilogly
"Pyrethrum"	Botanical nerve poison (pyrethrins)	Broad spectrum ^c	• Pyganic Crop Protection EC
garlic	Botanical chemical repellent	Aphids, beetles, caterpillars	• BioRepel • Garlic Barrier
limonene	Botanical nerve poison	Ant, flea, roach	• Orange Guard Ornamental Plants
biopesticides	Repellent & insecticide; antifeedant	Mites, thrips, leafhoppers, caterpillars, whiteflies	• Captiva Prime (Capsicum, garlic oil, canola oil)
mined minerals, unprocessed	Physical repellent (particle films)	Beetles, leafhoppers, grasshoppers, thrips	• Surround (kaolin)
diatomaceous earth	Disrupt water balance (abrasive dehydrating agent)	Broad spectrum ^c , soft-bodied pests	• Celite 610; Deadzone
potassium silicate, aqueous	Replenishes plant's innate resistance	Mites, aphids, whiteflies	• Sil-Matrix
ferric phosphate	Stomach poison; damages digestive tissue of slugs	Slugs	• Sluggo
sulfur, elemental	(unknown)	Some mites	• Dusting Sulfur Fungicide-Insecticide
lime sulfur and/or calcium polysulfide	(unknown)	Scale insects	• Rex Lime Sulfur Solution • Brandt Lime Sulfur

^a OMRI: <http://www.omri.org>

^b Note, most materials are allowed with restrictions: not permitted until attempts have been made to prevent pest infestations from developing by use of cultural, mechanical, and physical controls.

^c Broad spectrum includes sucking pests such as aphids, leafhoppers, and thrips, and chewing pests such as beetles and caterpillars.