

## **Garden Pesticides – April 2019**

Continuing changes in the pesticide regulations, have led to the withdrawal of many garden pesticides. Some have been withdrawn for safety reasons but many more for commercial reasons. The garden market is often too small to justify the expensive tests necessary to get a product re-approved or introduced.

Prevention, cultural and natural controls are therefore becoming more important now that fewer pesticides are available and we are giving more consideration to not harming the environment, other organisms as well as ourselves. Choosing good quality plants, resistant varieties, maintaining good hygiene and helping the plant to strengthen its natural defences by optimising watering and feeding regimes are also key.

Encouraging natural enemies and introducing Biological controls are also becoming increasingly important. The RHS lists suppliers of biological controls for the gardener on its website: <https://www.rhs.org.uk/advice/pdfs/biological-control-suppliers>. It is important to remember that biological controls are living organisms so greater care (as instructed on the label) is required in their handling, storage and application to get the best results.

Pesticides still have their place but should only be used as a last resort if no other less harmful way to control the problem can be found.

The following active ingredients are still approved for garden use as of 11 April 2019. To check if a product is currently approved go to <https://secure.pesticides.gov.uk/garden/prodsearch.asp>

If you would like any further information on pesticides or alternative control measures please contact the States Analyst Laboratory on 707612.

**NB When using Pesticides: ALWAYS READ THE LABEL: USE PESTICIDES SAFELY.**

**To protect pollinator insects do not spray plants in flower.**

### **Fungicides.**

<b>Chemical Name</b>	<b>*FRAC Group</b>	<b>Example of Trade Name</b>	<b>Mode of Action</b>	<b>Crops</b>	<b>Diseases controlled (CHECK PRODUCT LABEL)</b>
Copper oxychloride	M1	Bayer Fruit & Vegetable Disease Control	Contact & preventative	Table Grapes & Wine Grapes only	Downy mildew.
Myclobutanil & Cypermethrin (Insecticide)	3	Bayer Multirose 2 Westland Rose Rescue Doff Rose Shield Bug & Fungus Killer	Systemic, protective, & curative.	Ornamental Garden Plants	Powdery mildew, blackspot, rust, scab, Pestalotiopsis.
Tebuconazole	3	Bayer Fungus Fighter Concentrate	Systemic, protective, curative & eradicant	Ornamental Garden Plants & Houseplants (Phytotoxic to some Fuchsia varieties)	Broad spectrum including Leaf Spots, Rust, Powdery mildew, Blackspot, Box Blight.

Tebuconazole + Trifloxystrobin	3 +11	Bayer Fungus Fighter Plus SBM Fungus Control & Protect	Systemic, protective, curative & eradicator	Ornamental Garden Plants, (Phytotoxic to some Fuchsia varieties), houseplants, protected courgette, squash, & cucumber	Very Broad spectrum including Leaf spots, Rust, Powdery mildew, Blackspot, Box Blight, Pestalotiopsis.
Trifloxystrobin	11	Bayer Lawn Disease Control	Protectant, translaminar & some curative.	Lawns	Fusarium Patch, Red Thread
Triticonazole	3	Fungus Clear Ultra	Systemic	Ornamental Garden Plants (Phytotoxic to some Fuchsia varieties)	Blackspot, Powdery mildew, rust, leaf spot, Conifer Blight, Pestalotiopsis.
Triticonazole + Acetamiprid (insecticide)	3	Roseclear Ultra Roseclear Ultra Gun	Systemic	Ornamental Garden Plants (Phytotoxic to some Fuchsia varieties)	Blackspot, Powdery mildew, rust, leaf spot, Conifer Blight, Pestalotiopsis.
Urea/Foliar Lattice/surfactants	Physical action	SB Plant Invigorator Westland Resolva Natural Power Bug & Mildew	Physical	Ornamental Garden Plants + Edibles	Powdery Mildew

### \*Reducing Pesticide Resistance

Numbers in the Group column indicate the fungicide group for each product. Where possible select products from different groups to reduce the risk of the fungus developing resistance. Due to the reduced number of fungicide products there are only 3 major groups available to gardeners. A fungus resistant to one group will be resistant to other fungicides in the same group. For example, a powdery mildew resistant to a fungicide based on Myclobutanil will also be resistant to fungicides based on triticonazole.

## Insecticides/Molluscicides

Chemical Name	Group	Example of Trade Name	Mode of Action	Crops	Pests Controlled (CHECK PRODUCT LABEL)
Acetamiprid	4A	#Bug Clear Ultra Vine Weevil Killer (Drench) Bug Clear Ultra (Spray) RoseClear for Bugs	Systemic, translaminar, contact, stomach poison (Neonicotinoid)	Ornamental Garden Plants & Houseplants  Fruit & Vegetables ( <b>see BugClear Ultra</b> )	#As a drench for vine weevil grubs - <b>only to be used on containerised plants</b> . Sprays control aphids, whitefly, scale insects, mealybugs and thrips and can also be used to reduce numbers of red spider mite, lily beetle and some caterpillars. <b>Bug Clear Ultra</b> has approval for certain fruit & Veg - apple (outdoor), aubergine (protected), cherry (outdoor), lettuce (outdoor), lettuce (protected), pear (outdoor), pepper (protected), plum (outdoor), potato (outdoor), tomato (protected) – <b>ALWAYS CHECK THE LABEL</b> .
Cypermethrin	3	Vitax Py Bug Killer Doff Greenfly & Blackfly Killer	Contact & stomach poison. Some residual activity	Some Brassicas, Potatoes & Ornamental Garden Plants. (Check the Label)	Broad spectrum general insecticide including flies, bugs, beetles, aphids and caterpillars.
Cypermethrin + Myclobutanil (Fungicide)	3	Bayer Multirose 2 Westland Rose Rescue Doff Shield & Fungus Killer	Contact & stomach poison. Some residual activity	Roses & Ornamental Garden Plants	Broad spectrum general insecticide including flies, bugs, beetles, aphids and caterpillars.
Deltamethrin	3	Bayer Provado Ultimate Bug Killer. Baby Bio Houseplant Bug Killer Provanto Ultimate Fruit & Vegetable Bug Killer	Fast acting contact & stomach poison. Some residual activity	Ornamental Garden Plants, Fruit, Vegetables & herbs <b>as per label</b> .	General pest control including aphids, whitefly, caterpillars, codling moth, plum moth, tortrix moths, raspberry beetle, flea beetles, weevils, sawfly larvae, leaf sucker, apple and pear suckers, leafhoppers, capsid bugs, scale insects, thrips and mealybugs
Deltamethrin + Tebuconazole (Fungicide)	3	Multirose Concentrate 2	Fast acting contact & stomach poison. Some residual activity	Ornamental Garden Plants	General pest control including aphids, whitefly, caterpillars, codling moth, plum moth, tortrix moths, raspberry beetle, flea beetles, weevils, sawfly larvae, leaf sucker,

					apple and pear suckers, leafhoppers, capsid bugs, scale insects, thrips and mealybugs
Fatty acids	N/A	Bayer Bug Free Doff Universal Bug Killer	Physical	All edible Crops & Ornamental Garden Plants as per label.	Useful against aphid, whitefly, thrips, red spider mites, mealy bugs, leafhoppers and scale insect.
Fatty acids + Pyrethrins	3	Lodi - Bio Pro Multi-Purpose Bug Killer Doff – Lorbex Indoor Bug Killer	Contact, Non-persistent.	All edible Crops & Ornamental Garden Plants or as per label.	Useful against aphid, whitefly, thrips, red spider mites, mealy bugs, leafhoppers and scale insect.
Ferric phosphate	N/A	Bayer Garden Slug Killer Doff Super Slug Killer B&Q Advanced Slug Killer	Feeding disruption once ingested.	Edibles (around) & Non edibles (around)	Slugs+ snails
Lamba- Cyhalothrin	3	Westland Resolva Bug Killer Westland Plant Rescue Fruit & Veg Bug Killer	Contact & stomach poison. Some residual & repellent activity	Wide range of Edibles & Ornamental Garden Plants as per label	General pest control including aphids, capsid bug, thrips, whitefly, beetles, caterpillars, pea moth, pea and bean weevil, sawflies, leaf curling midges, carrot fly adults and some other pests
Metaldehyde **	N/A	Bayer Ultimate Slug & Snail Killer. Doff Slug Killer Blue Mini Pellets Westland Erazo	Contact & stomach poison. Dehydrates by causing over production of slime	Edibles (around) & Non edibles (around)	Slugs & snails <b>NB: Dangerous to pets</b>
Plant Oils / Rapeseed Oil	N/A	Bug Clear All Purpose Spray Bug Clear Fruit & Veg. Fytomax PX	Physical	All Edibles & Non Edibles	General pest control – Aphid, Scale, Mealy Bug, Red Spider Mite, whitefly, thrips <b>Take Care when using on sensitive plants such as Fuchsia &amp; Begonia, Cyclamen, Poinsettia, African Violet, Kalanchoe, Ferns, Ivy and open blooms.</b>
Pyrethrins	3	Pyrol Bug & Larvae Killer Advanced Bug Killer	Contact, Non-persistent.	All Edibles & Non Edibles	General pest control including aphid, whitefly, small caterpillars, sawfly larvae, asparagus beetle, thrips, leafhoppers, capsids. Also some activity against mites and other beetles.

Pyrethrins & Rapeseed Oil	3	Botanico Bugclear Spray. BugClear Ecomax BugFree Bug and Larvae Killer	Contact, Physical, non- persistent	Ornamental Garden Plants and some fruit & Vegetables (Pear, Apple, Kohlrabi) as per label	General pest control including aphid, whitefly, small caterpillars, sawfly larvae, asparagus beetle, thrips, leafhoppers, capsids. Also some activity against mites and other beetles.
Urea/Foliar Lattice / surfactants/ fatty acids	Physical action	SB Plant Invigorator Westland Resolva Natural Power Bug & Mildew	Physical action & nutrient boost for the plant.	All Edibles & Non Edibles	Aphids, whitefly, mealybug, scale, red spider mite, woolly aphid, Bay Sucker, Psyllids.

\*\* Following concerns over the environmental impact of metaldehyde based products all products will no longer be approved for use from 30 June 2020.

### Reducing pesticide resistance

Numbers in the Group column indicate the chemical group for each product. Select products from different chemical groups to reduce the risk of pest resistance. A pest resistant to one group will be resistant to all members of the group. For example, an aphid resistant to products based on Cypermethrin will also be resistant to products based on Deltamethrin.

Products without group numbers are less likely to induce pest resistance.

### Useful links

SBM Life Science Ltd

<https://www.protect-garden.co.uk/our-garden-home-products>

Evergreen Garden Care (UK) Ltd

<https://www.lovethegarden.com/products/pests-disease>

Westland Horticulture Limited:

<http://www.gardenhealth.com/pests-diseases>

RHS Website pages:

<https://www.rhs.org.uk/advice/profile?PID=506>

<https://www.rhs.org.uk/advice/profile?pid=817>

Common Sense Gardening

<https://garden-care.org.uk/>