

Garden Pesticides

NB When using Pesticides: ALWAYS READ & COMPLY WITH THE LABEL CONDITIONS AND INSTRUCTIONS FOR USE.

USE PESTICIDES SAFELY.

To protect pollinator insects do not spray plants in flower.

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 Some have been withdrawn for safety reasons but many more for commercial reasons.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 approval process.

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 16th May 2023. 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 Analytical Laboratory on 227612 or see our factsheet “Common Garden Pests and Diseases in Guernsey & Their Control”

Fungicides:

Chemical Name	*FRAC (+ IRAC) Group	Example of Trade Name (Other products may be available)	Produced by	Mode of Action	Crops	Diseases controlled / reduced. (CHECK PRODUCT LABEL)
Castor Oil and nutrients	Physical action - barrier	Miracle-Gro® 2 in 1 Nourish & Protect	Miracle-Gro	Contact / protective	Outdoor Ornamentals	Aphid, mealy bug, red spider mite, Black Spot, Powdery Mildew, Rust.
Copper oxychloride	M01	Valtonex	Bayer CropScience Ltd	Contact & preventative	Table Grapes & Wine Grapes only	Downy mildew.
Fatty Acids & Potassium salts	Physical action	Doff Universal Bug Killer	Doff Portland Ltd	Contact	Edible & non-edible -plants	Whitefly, Aphid, Mealy Bug, Scale, Psyllid, Powdery Mildew.
Fish oils and soy lecithin Rapeseed oil	Physical action / reduces spore germination	Vitax Roseguard Vitax Plant Guard Bug Clear Fruit & Veg. Fytomax PX.	Vitax Ltd Vitax Ltd Evergreen Garden Care UK Ltd Russell IPM Limited	Contact /protective	Ornamental garden plants Flowers fruit and vegetables	Aphid, spider mite, Powdery Mildew General pest control – Aphid, Scale, Mealy Bug, Red Spider Mite, whitefly, thrips Take Care when using on sensitive plants such as Fuchsia & Begonia, Cyclamen, Euphorbias, Poinsettia, African Violet, Kalanchoe, Ferns, Ivy and open blooms where scorch is possible.
Fungal and plant extracts	Plant natural defence stimulators	Ecofective Plant Disease Defence	Sipcam Home & Garden	Protective	Edible & non-edible -plants	General disease reduction
Orange Oil	Desiccant / physical action.	Prev-Gold Garden	Oro Agri International B.V	Contact	Pepper and chilli (permanent protection with full enclosure), tomato (permanent protection with full enclosure) only.	Botrytis, Powdery mildew, spider mites, aphid, whitefly & some caterpillars.
Potassium Hydrogen Carbonate	Physical Action	Amicarb Spray Fungus Tough Guard	Agronaturalis Ltd Westland Horticulture Ltd	Preventative, contact.	Ornamental garden plants, herbs, vegetables as per label	Powdery mildew, Downy Mildew, Botrytis, Scab

Sodium lauryl ether sulphate & nutrients	Physical action	SB Plant Invigorator. Ecofective - Rose Defender Ecofective -Houseplant Bug Control Ecofective -Bug Control	Stan Brouard Group Sipcam Home & Garden	Contact	Edible & non-edible -plants	Whitefly, Aphid, Mealy Bug, Scale, Psyllid, Powdery Mildew
Sulphur	M02	Mildew Clear for Edibles ¹ FungusClear Ultra 2 ²	Neudorff Evergreen Garden Care UK Ltd	Protective	¹ Grapevines, ornamentals, fruit & vegetables (as per label) ² Ornamental garden plants (outdoor)	Powdery Mildew, blackspot & rust
Sulphur & fatty Acids	M02 (+ F4)	Rose Clear 3 in 1 Action.	Evergreen Garden Care UK Ltd	Protective / contact	Ornamental garden plants	Powdery mildew, powdery mildew, and pest control (fatty acids useful against aphid, whitefly, thrips, red spider mites, mealy bugs, leafhoppers, and scale insect.)
Tebuconazole	3	Fungus Fighter Concentrate.	Bayer CropScience Limited	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 & Deltamethrin (insecticide)	3 (+3)	Multirose Concentrate 2.	Bayer CropScience Limited	Systemic, protective, curative & eradicant	Ornamental Garden Plants (Phytotoxic to some Fuchsia varieties)	Broad spectrum including Leaf Spots, Rust, Powdery mildew, Blackspot, Box Blight.
Tebuconazole + Trifloxystrobin	3 & 11	Fungus Fighter Plus. Fungus Control & Protect	SBM Life Science Ltd	Systemic, protective, curative & eradicant	Ornamental Garden Plants, (Phytotoxic to some Fuchsia varieties), houseplants, protected courgette, summer squash, & cucumber	Very Broad-spectrum including Leaf spots, Rust, Powdery mildew, Blackspot, Box Blight, Pestalotiopsis.
Triticonazole	3	Fungus Clear Ultra Fungus Clear Ultra Gun	Evergreen Garden Care UK Ltd	Systemic	Ornamental Garden Plants (Phytotoxic to some Fuchsia varieties)	Blackspot, Powdery mildew, rust, leaf spot, Conifer Blight, Pestalotia.
Triticonazole + Acetamiprid (insecticide)	3 (+4A)	Roseclear Ultra. Roseclear Ultra Gun	Evergreen Garden Care UK Ltd	Systemic	Ornamental Garden Plants (outdoor) (Phytotoxic to some Fuchsia varieties)	Blackspot, powdery mildew, rusts (and aphids)

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***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 tebuconazole will also be resistant to fungicides based on triticonazole.

Insecticides/Molluscicides:

Chemical Name	*IRAC (+ FRAC) Group	Example of Trade Name (<i>Other products may be available</i>)	Produced by	Mode of Action	Crops	Pests Controlled (CHECK PRODUCT LABEL)
Acetamiprid	4A	³ Bug Clear Ultra Vine Weevil Killer (Drench). ⁴ Bug Clear Ultra (Spray).	Evergreen Garden Care UK Ltd	Systemic, translaminar, contact, stomach poison (Neonicotinoid)	³ Ornamental Garden Plants & Houseplants ⁴ Fruit & Vegetables (see BugClear Ultra label)	³ As a drench for vine weevil grubs - only to be used on containerised ornamental plants. ⁴ 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. Bug Clear Ultra has approval for ornamental garden plants as well as certain fruit & Vegetables - apple (outdoor), aubergine (protected), cherry (outdoor), lettuce (outdoor), lettuce (protected), pear (outdoor), pepper (protected), plum (outdoor), potato (outdoor), tomato (protected) – ALWAYS CHECK THE LABEL.
Acetamiprid + Triconazole	4A (+3)	Roseclear Ultra. Roseclear Ultra Gun.	Evergreen Garden Care UK Ltd	Systemic	Ornamental Garden Plants (outdoor) (Phytotoxic to some Fuchsia varieties)	General Pest & disease control
Castor Oil and nutrients	Physical action - barrier	Miracle-Gro® 2 in 1 Nourish & Protect	Miracle-Gro	Contact / protective	Outdoor Ornamentals	Aphid, mealy bug, red spider mite, Black Spot, Powdery Mildew, Rust.
Cypermethrin	3	Py Bug Killer. Doff Greenfly & Blackfly Killer.	Vitax Ltd Doff Portland Limited	Contact & stomach poison. Some residual activity	Broccoli/calabrese, cabbage, cauliflower, ornamental garden plants, potato	Broad spectrum general insecticide including flies, bugs, beetles, aphids, and caterpillars.
Deltamethrin	3	Provado Ultimate Bug Killer. Baby Bio Houseplant Bug Killer. Provanto Ultimate Fruit & Vegetable Bug Killer	Bayer CropScience Limited SBM Life Science Ltd	Fast acting contact & stomach poison. Some residual activity	Ornamental Garden Plants, Fruit, Vegetables & herbs AS PER LABEL.	Broad spectrum. 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 (+3)	Multirose Concentrate 2	Bayer CropScience Limited	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 & Potassium salts	Physical action	Doff Universal Bug Killer	Doff Portland Ltd	Contact	Edible & non-edible - plants	Whitefly, Aphid, Mealy Bug, Scale, Psyllid, Powdery Mildew.
Fatty acids C7-C20 + Sulphur	F4 (+M02)	RoseClear 3 In 1 Action	Evergreen Garden Care UK Ltd	Physical	Ornamental Garden Plants	Useful against aphid, whitefly, thrips, red spider mites, mealy bugs, leafhoppers, and scale insect. Sulphur gives some protection against powdery mildew.
Ferric phosphate	N/A	Growing Success Slug Killer. Doff Super Slug Killer. B&Q Advanced Slug Killer. Blue Diamond Advanced Slug & Snail Killer.	Westland Horticulture Limited Doff Portland Limited B&Q plc Blue Diamond	Feeding disruption once ingested.	Edibles (around) & Non edibles (around) as per label	Slugs & snails
Fish oils and soy lecithin Rapeseed oil	Physical action / reduces spore germination	Vitax Roseguard Vitax Plant Guard Bug Clear Fruit & Veg. Fytomax PX.	Vitax Ltd Vitax Ltd Evergreen Garden Care UK Ltd Russell IPM Limited	Contact /protective	Ornamental garden plants Flowers fruit and vegetables	Aphid, spider mite, Powdery Mildew General pest control – Aphid, Scale, Mealy Bug, Red Spider Mite, whitefly, thrips Take Care when using on sensitive plants such as Fuchsia & Begonia, Cyclamen, Euphorbias, Poinsettia, African Violet, Kalanchoe, Ferns, Ivy and open blooms where scorch is possible.
Flupyradifurone	4D	Provanto Smart Bug Killer	SBM Life Science Ltd	Systemic & contact	Outdoor apple, ornamental garden plants & Indoor/protected aubergine, courgette, summer squash, cucumber house plant,	Aphids, Hoppers, Whiteflies, Psyllids and some beetles.

					ornamental garden plants, pepper and chilli, tomato.	
Lamba-Cyhalothrin	3	Resolva Bug Killer. Westland Plant Rescue Fruit & Vegetable Bug Killer.	Westland Horticulture Limited	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
Orange Oil	Desiccant / physical action.	Prev-Gold Garden	Oro Agri International B.V	Contact	Pepper and chilli (permanent protection with full enclosure), tomato (permanent protection with full enclosure) only.	Botrytis, Powdery mildew, spider mites, aphid, whitefly & some caterpillars.
Pyrethrins	3	Greenpy Garden.	Copyr S.p.A	Contact, Non-persistent.	Ornamental Garden Plants	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	Advanced Bug Killer Botanico Bugclear Spray. BugFree Bug and Larvae Killer.	W Neudorff (UK) Ltd Evergreen Garden Care UK Ltd DLF Seeds Ltd	Contact, Physical, non-persistent	Ornamental Garden Plants and for some products 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.
Sodium lauryl ether sulphate & nutrients	Physical action	SB Plant Invigorator. Ecofective - Rose Defender Ecofective -Houseplant Bug Control Ecofective -Bug Control	Stan Brouard Group Sipcam Home & Garden	Contact	Edible & non-edible - plants	Aphids, whitefly, mealybug, scale, red spider mite, woolly aphid, Bay Sucker, Psyllids. Mildew

***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.**

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Useful links

SBM Life Science Ltd	https://www.protect-garden.co.uk/product-search-19
Doff Portland Ltd	https://www.doff.co.uk/
Evergreen Garden Care (UK) Ltd	https://www.lovethegarden.com/uk-en
Westland Horticulture Limited:	https://www.gardenhealth.com/advice/pests-and-diseases
Vitax Ltd	https://www.vitax.co.uk/
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/
Agriculture & Horticulture	https://gov.gg/article/152996/Agriculture--Horticulture#selectednavItem152742

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