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# Weedkillers for Home Gardeners

RHS Advisory Service  
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Sharing the best in Gardening

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## Introduction



The active ingredients listed here under their manufacturers' names, may be available as 'own brand' from larger retailers such as DIY superstores. It is not practical to list all of these. The name of the active ingredient must, by law, appear on the label, but it may be in small print. In a number of cases, a product that works by physical action may not indicate its active ingredient on the label.

Please note that inclusion of a product on a leaflet does not indicate a recommendation of that product by the RHS. It must also be emphasised that the RHS is not in any way liable for any consequences that may ensue from the use of herbicides by home gardeners.

All garden chemicals on sale in the United Kingdom are safe when used according to the manufacturers' instructions. Most proprietary products have been issued with a MAPP or HSE number which can be found on the pack. Some products on this leaflet, such as the seaweed extract for patio cleaning, do not require MAPP or HSE numbers.

## For the most effective and safe use of herbicides, rules should be observed:

1. Use chemicals only when they are really necessary. Many weeds can be kept down by good cultivation techniques such as hoeing, mulching, mowing and digging.
2. You must select a chemical which is recommended for the particular purpose you have in mind. Always read the label before choosing a product.
3. Don't buy large amounts of pesticides that will take many years to use up. If only a few plants require treatment, a ready-to-use spray is likely to be the best answer.
4. Read the manufacturers' label and check for specific limitations or precautions you should take. As an added precaution you should wear rubber gloves, particularly when handling concentrates and spraying.
5. Follow the instructions on the product label and apply the chemical at the stated rate and in the manner described. It is a legal requirement to comply with the Statutory Conditions indicated on the label.
6. Make sure you are spraying at the correct times and intervals. This is often crucial for the control of a weed.
7. It is illegal to mix two chemicals together to give a combined spray unless this is recommended on the label or leaflet.
8. Avoid contact with exposed parts of the body, particularly the eyes. Wash off any splashes immediately with clean water.
9. Avoid breathing in sprays. Wash after using sprays.
10. Make sure no children or animals are in the vicinity when spraying.
11. Do not smoke, eat or drink while spraying.
12. Spray sufficiently to wet the plants without excessive run-off or drift, but thoroughly wet the stems, buds and the underside as well as the upper surface of the leaves.
13. Do not spray on windy or very sunny days.
14. Clean all equipment after spraying. DO NOT use apparatus that have contained herbicides for the application of other substances such as fertilisers or water.
15. Always try to make up only sufficient solution for the task. Left-over spray must not be poured down the drain.
16. Store chemicals in a safe place away from children and pets, keeping them tightly closed and in their original containers.

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## Choosing weedkillers available to home gardeners

The following list comprises herbicides that should be readily available in garden centres, DIY stores, etc. You should be aware that it is ESSENTIAL you check the statutory conditions of use and directions of use on the herbicide label to check the situation in which the individual herbicide can be used. For more information on approved chemicals and safe pesticide use, visit the website of the Pesticides Safety Directorate: <https://secure.pesticides.gov.uk/garden/prodsearch.asp>

### 1. Hormone-type Herbicides

Chemicals such as 2,4-D, mecoprop-P, MCPA and dicamba are described as 'hormone' weedkillers as they mimic plant hormones, causing characteristic twisted or distorted growth when applied to weeds. These herbicides are selective, targeting broad-leaved weeds and leaving narrow-leaved plants (grasses) unharmed at the normal dilution rate. Because of this they are used on lawns or rough grassland. Hormone weedkillers are foliar-acting and translocated, moving down into the weeds' roots when applied to the foliage. They also tend to be slightly residual, remaining in the soil for a few weeks after application.



Avoid using lawn herbicides on newly-turfed or seeded lawns and do not use the first lawn clippings after application on the compost heap. Products containing clopyralid can be especially persistent. Again, the first clippings should not be composted and the next three mowings should be used as a mulch only after composting for at least 9 months. To avoid possible contamination of compost, do not collect the clippings at all but mow frequently and allow the short clippings to remain on the surface of the lawn. These will quickly disperse to leave an acceptable finish. Very often lawn weedkillers are combined with fertilisers and/or mosskillers.

#### a) Rough grassland weedkillers

| Active Ingredient | Proprietary Name                  | Manufacturer/Source of Supply | Formulation        |
|-------------------|-----------------------------------|-------------------------------|--------------------|
| triclopyr         | SBK Brushwood Killer              | Vitax Ltd                     | liquid concentrate |
| triclopyr         | SBK Brushwood Killer Ready to Use | Vitax Ltd                     | ready-to-use spray |

#### b) Lawn weedkillers

| Active Ingredient             | Proprietary Name                        | Manufacturer/Source of Supply | Formulation        |
|-------------------------------|---|-------------------------------|--------------------|
| 2,4-D/dicamba/mecoprop-P/MCPA | Lawn Weedkiller Ready to Use 3          | Bayer CropScience Ltd         | ready-to-use spray |
| 2,4-D/dicamba/mecoprop-P/MCPA | Doff Lawn Spot Weeder                   | Doff Portland Ltd             | ready-to-use spray |
| 2,4-D/dicamba/mecoprop-P/MCPA | Resolva Lawn Weedkiller                 | Westland Horticulture Ltd     | liquid concentrate |
| 2,4-D/dicamba/mecoprop-P/MCPA | Resolva Lawn Weedkiller Ready to Use    | Westland Horticulture Ltd     | ready-to-use spray |
| clopyralid/2,4-D/MCPA         | LawnClear 2                             | Vitax Ltd                     | liquid concentrate |
| clopyralid/2,4-D/MCPA         | LawnClear 2 Ready to Use                | Vitax Ltd                     | ready-to-use spray |
| fluroxypyr/MCPA/clopyralid    | Weedol Lawn Weedkiller                  | Scotts Company (UK) Ltd       | liquid concentrate |
| fluroxypyr/MCPA/clopyralid    | Weedol Gun Lawn Weedkiller Ready to Use | Scotts Company (UK) Ltd       | ready-to-use spray |

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**c) Lawn weedkillers with fertiliser** (N = nitrogen, P = phosphorus, K = potassium)

| Active Ingredient               | Proprietary Name                                | Manufacturer/Source of Supply | Formulation        |
|---------------------------------|---|-------------------------------|--------------------|
| 2,4-D/dicamba plus NPK          | Scotts Lawn Builder Lawn Food plus Weed Control | Scotts Company (UK) Ltd       | granules           |
| 2,4-D/MCPA /clopyralid plus NPK | Green Up Lawn Liquid Feed & Weed                | Vitax Ltd                     | liquid concentrate |

**d) Lawn weedkillers with fertiliser and mosskiller**

| Active Ingredient                          | Proprietary Name                          | Manufacturer/Source of Supply | Formulation |
|--|---|-------------------------------|-------------|
| ferrous sulphate/2,4-D/mecoprop-P plus NPK | 3 in 1 Lawn Feed, Weed & Mosskiller       | Doff Portland Ltd             | granules    |
| ferrous sulphate/2,4-D/mecoprop-P plus NPK | Lawn Feed, Weed & Mosskiller              | Garden Direct                 | granules    |
| ferrous sulphate/2,4-D/mecoprop-P plus NPK | Green Up Lawn Feed & Weed Plus Mosskiller | Vitax Ltd                     | granules    |
| ferrous sulphate/2,4-D/mecoprop-P plus NPK | Lawn Feed, Weed & Mosskiller              | Westland Horticulture Ltd     | granules    |
| ferrous sulphate/2,4-D/mecoprop-P plus NPK | Aftercut All-in-One                       | Westland Horticulture Ltd     | granules    |
| MCPA/mecoprop-P/ferrous sulphate, NPK      | EverGreen Complete                        | Scotts Company (UK) Ltd       | granules    |

## 2. Moss and Algae Killers, Garden Cleaners and Water Butt Purification



Mosskillers have been formulated to control moss on lawns, borders and/or hard surfaces (check manufacturers' statutory conditions). Mosskillers work by contact action, only some being selective when used at the correct concentration. Never use ferrous sulphate on hard surfaces as it will stain.

Algae killers also work on contact and are mainly approved for use on hard surfaces, although the products based on pelargonic acid and other fatty acids have approval for use around trees and ornamental plants. Most are water-soluble and so have poor residual properties, providing little long-term control.

*Please note that a number of the products in sections c) and d) are non-chemical and work through mechanical, enzymatic or microbial action. Other garden cleaning products are also available.*

**a) Lawn mosskillers**

| Active Ingredient         | Proprietary Name                         | Manufacturer/Source of Supply | Formulation |
|---------------------------|--|-------------------------------|-------------|
| ferrous sulphate plus N   | Lawn Sand                                | Garden Direct                 | sand        |
| ferrous sulphate plus N   | Lawn Sand                                | Westland Horticulture Ltd     | sand        |
| ferrous sulphate plus N   | Green Up Lawn Sand                       | Vitax Ltd                     | sand        |
| ferrous sulphate plus N   | Lawn Builder Lawn Food plus Moss Control | Scotts Company (UK) Ltd       | granules    |
| ferrous sulphate plus NPK | EverGreen Autumn                         | Scotts Company (UK) Ltd       | granules    |
| ferrous sulphate plus NPK | Aftercut Autumn All in 1                 | Westland Horticulture Ltd     | granules    |

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**b) Moss and algae killers (not lawn)**



| Active Ingredient            | Proprietary Name        | Manufacturer/Source of Supply | Formulation        |
|------------------------------|-------------------------|-------------------------------|--------------------|
| acetic acid                  | Weedol Fast Acting Gun! | Scotts Company (UK) Ltd       | ready-to-use spray |
| fatty acids                  | Moss Killer             | Bayer CropScience Ltd         | ready-to-use spray |
| pelargonic acid (fatty acid) | Resolva Moss Killer     | Westland Horticulture         | ready-to-use spray |

**c) Garden cleaners**

| Active Ingredient  | Proprietary Name                                 | Manufacturer/Source of Supply | Formulation        |
|--|--|-------------------------------|--------------------|
| acetic acid  | Algon Organic Path and Patio Cleaner             | Algon Ltd                     | liquid concentrate |
| benzalkonium chloride  | Patio Magic                                      | Brinton Products Ltd          | liquid concentrate |
| benzalkonium chloride  | Super Concentrate Path Patio and Decking Cleaner | Doff Portland Ltd             | soluble sachet     |
| benzalkonium chloride  | Easy Clean                                       | Vitax Ltd                     | ready-to-use spray |
| garden cleaner/<br>disinfectant based on para-chloro-meta-cresol | Jeyes Fluid                                      | Jeyes UK                      | liquid concentrate |
| nitrilo triacetic acid/trisodium salt                            | Path & Patio Cleaner                             | Bayer CropScience Ltd         | liquid concentrate |
| non-acid surface cleaner   | Jeyes Patio Power Cleaner                        | Jeyes UK                      | liquid concentrate |
| surfactant   | Path & Patio Liquid Cleaner                      | Vitax Ltd                     | liquid concentrate |
| surfactant based on seaweed                                      | Just Patio and Concrete Cleaner                  | Just Green Ltd                | liquid concentrate |
| surfactant based on seaweed                                      | Just Glasshouse Cleaner                          | Just Green Ltd                | liquid concentrate |

**d) Water butt purification**

| Active Ingredient                   | Proprietary Name               | Manufacturer/Source of Supply | Formulation        |
|-------------------------------------|--------------------------------|-------------------------------|--------------------|
| naturally-occurring micro-organisms | Aquahydrotech Water Butt Fresh | Eco Pond Ltd                  | liquid concentrate |
| naturally-occurring plant extract   | Water Butt Treatment           | Biotol Ltd                    | liquid concentrate |
| naturally-occurring plant extract   | Just Water Butt Cleaner        | Just Green                    | liquid concentrate |
| potassium permanganate              | Potassium permanganate         | Garden Direct                 | crystals           |

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### 3. Contact Herbicides

Contact herbicides are non-selective and non-residual and work simply by scorching off weed foliage. This makes the ready-to-use formulations ideal for controlling annual weeds and perennial weed seedlings growing in between garden plants, which can simply be protected using polythene, cardboard or an upturned bucket. *\*These products work by both contact and systemic action*

| Active Ingredient            | Proprietary Name               | Manufacturer/Source of Supply | Formulation        |
|------------------------------|--------------------------------|-------------------------------|--------------------|
| acetic acid                  | Weedol Fast Acting Gun!        | Scotts Company (UK) Ltd       | ready-to-use spray |
| fatty acids                  | Garden Ultrafast               | Bayer CropScience Ltd         | ready-to-use spray |
| fatty acids                  | Super Fast Weedkiller          | Bayer CropScience Ltd         | ready-to-use spray |
| *glyphosate/diquat           | Resolva 24H Liquid Concentrate | Westland Horticulture Ltd     | liquid concentrate |
| *glyphosate/diquat           | Resolva 24H Ready to Use       | Westland Horticulture Ltd     | ready-to-use spray |
| pelargonic acid (fatty acid) | 24/7 Superfast Weedkiller      | Doff Portland Ltd             | ready-to-use spray |

### 4. Systemic Herbicides



Systemic herbicides are non-selective and non-residual. They differ from contact herbicides in that when applied to the foliage the herbicide moves down into the root system of the weed. This makes systemic herbicides ideal for controlling deep-rooted perennial weeds. The most effective time for spraying glyphosate is mid- to late summer when the weed has a large surface area.

**A note on glyphosate: The European Union has given approval for glyphosate to be used until Dec 2017. Therefore the amateur products listed remain available to buy and use. However, the UK government is able to withdraw products and limit their use before Dec 2017. If this happens, we will update the information on our website.**

*\*These products work by both contact and systemic action.*

*\*\*These products contain a selective broad-leaved contact weedkiller as well as glyphosate.*

| Active Ingredient | Proprietary Name                               | Manufacturer/Source of Supply | Formulation        |
|-------------------|--|-------------------------------|--------------------|
| glyphosate        | Garden Rootkill Weedkiller                     | Bayer CropScience Ltd         | liquid concentrate |
| glyphosate        | Garden Rootkill Ready to Use                   | Bayer CropScience Ltd         | ready-to-use spray |
| glyphosate        | Garden Super Strength Weedkiller               | Bayer CropScience Ltd         | soluble sachet     |
| glyphosate        | Tree Stump Killer                              | Bayer CropScience Ltd         | soluble sachet     |
| glyphosate        | Doff Tree Stump & Tough Weedkiller             | Doff Portland Ltd             | soluble sachet     |
| glyphosate        | Knockdown Super Strength Glyphosate Weedkiller | Doff Portland Ltd             | soluble sachets    |
| glyphosate        | Glyphosate Weedkiller                          | Doff Portland Ltd             | liquid concentrate |
| glyphosate        | Maxi Strength Glyphosate Weedkiller            | Doff Portland Ltd             | liquid concentrate |
| glyphosate        | Glyphosate Weedkiller Ready to Use             | Doff Portland Ltd             | ready-to-use spray |
| glyphosate        | Path & Patio Weedkiller Ready to Use           | Doff Portland Ltd             | ready-to-use spray |
| glyphosate        | Tumbleweed                                     | Scotts Company (UK) Ltd       | liquid concentrate |
| glyphosate        | Tumbleweed Ready to Use                        | Scotts Company (UK) Ltd       | ready-to-use spray |

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|                                   |   |                           |                    |
|-----------------------------------|---|---------------------------|--------------------|
| glyphosate                        | Fast Action Roundup Ready to Use              | Scotts Company (UK) Ltd   | ready-to-use spray |
| glyphosate                        | Roundup Gel Ready to Use                      | Scotts Company (UK) Ltd   | gel                |
| glyphosate                        | Roundup Ultra                                 | Scotts Company (UK) Ltd   | liquid concentrate |
| glyphosate                        | Roundup Tree Stump & Rootkiller               | Scotts Company (UK) Ltd   | liquid concentrate |
| glyphosate                        | Roundup Tough Weedkiller Ready to Use         | Scotts Company (UK) Ltd   | ready-to-use spray |
| glyphosate                        | Weedfree Concentrate                          | Vitax Ltd                 | liquid concentrate |
| glyphosate                        | Weedfree Ready to Use                         | Vitax Ltd                 | ready-to-use spray |
| glyphosate                        | Deadfast Path & Patio Weedkiller Ready to Use | Westland Horticulture Ltd | ready-to-use spray |
| glyphosate                        | Deadfast Weedkiller                           | Westland Horticulture Ltd | soluble sachet     |
| glyphosate                        | Deep Root Ultra Tree Stump & Weedkiller       | Westland Horticulture Ltd | liquid concentrate |
| glyphosate                        | Resolva Xtra Tough Concentrate                | Westland Horticulture Ltd | liquid concentrate |
| *glyphosate/diquat                | Resolva Path & Patio                          | Westland Horticulture Ltd | liquid concentrate |
| *glyphosate/diquat                | Resolva Path & Patio Ready to Use             | Westland Horticulture Ltd | ready-to-use spray |
| *glyphosate/diquat                | Resolva 24H Liquid Concentrate                | Westland Horticulture Ltd | liquid concentrate |
| *glyphosate/diquat                | Resolva 24H Ready to Use                      | Westland Horticulture Ltd | ready-to-use spray |
| **glyphosate/<br>pyraflufen ethyl | Weedol Ultra Tough                            | Scotts Company (UK) Ltd   | liquid concentrate |
| **glyphosate/<br>pyraflufen ethyl | Weedol Gun! Ultra Tough                       | Scotts Company (UK) Ltd   | ready-to-use spray |

## 5. Residual Herbicides

Residual herbicides can be soil-acting or foliar-acting, the herbicide remaining in the soil for weeks or months, depending on the active ingredients' properties. Some can be used around plants, whereas others can only be used in uncultivated areas and/or hard surfaces. Check the label before use.

\* *Option on the label to use around large shrubs, trees and woody plants*

| Active Ingredient                    | Proprietary Name                       | Manufacturer/Source of Supply | Formulation        |
|--------------------------------------|--|-------------------------------|--------------------|
| *glyphosate/flufenacet/<br>metosulam | Path & Drive Weedkiller Ready to Use   | Bayer CropScience Ltd         | ready-to-use spray |
| *glyphosate/flufenacet/<br>metosulam | Path, Patio & Drive Weedkiller         | Bayer CropScience Ltd         | soluble sachet     |
| *glyphosate/flufenacet/<br>metosulam | Ground Clear weedkiller                | Bayer CropScience Ltd         | soluble sachet     |
| *glyphosate/flufenacet/<br>metosulam | Long Lasting Ground Clear Ready to Use | Bayer CropScience Ltd         | ready-to-use spray |
| glyphosate/diflufenican              | Weedol Pathclear Weedkiller LC         | Scotts Company (UK) Ltd       | liquid concentrate |
| glyphosate/diflufenican              | Weedol PS Pathclear Weedkiller         | Scotts Company (UK) Ltd       | ready-to-use spray |

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# ALWAYS READ THE LABEL USE HERBICIDES SAFELY

## Herbicide Legislation

Some garden herbicides have been withdrawn from the market recently (see individual sections) or have had their label recommendations changed. If you possess any out-of-date chemicals, contact your local authority's waste disposal section for advice on suitable disposal sites.

### Manufacturers/Distributors

| Company Name              | Address  | Telephone       | Website  |
|---------------------------|--|-----------------|--|
| Algon Ltd                 | Unit 3, Ribble Saw Mill, Paley Road, Preston, Lancashire PR1 8LT             | (01772) 823370  | <a href="http://www.algonorganics.co.uk">www.algonorganics.co.uk</a>     |
| Eco Pond Ltd              | Odessa Farm, Hoggington Lane, Southwick, Trowbridge, Wiltshire BA14 9NS      | (01225) 767919  | <a href="http://www.ecopond.co.uk">www.ecopond.co.uk</a>                 |
| Bayer Garden              | Bayer CropScience, 230 Cambridge Science Park Milton Road, Cambridge CB4 0WB | (0845) 3454100  | <a href="http://www.bayergarden.co.uk">www.bayergarden.co.uk</a>         |
| Biotal Ltd                | Spring Lane North, Malvern Link, Worcs WR14 1BU                              | (01684) 891055  | <a href="http://www.biotal.co.uk">www.biotal.co.uk</a>                   |
| Brinton Products          | 24 Roseneath Road, London SW11 6AH   | (0845) 2505976  | <a href="http://www.brintonproducts.co.uk">www.brintonproducts.co.uk</a> |
| Doff Portland Ltd         | Aerial Way, Watnall Road, Hucknall, Notts NG15 6DW                           | (0115) 963 2842 | <a href="http://www.doff.co.uk">www.doff.co.uk</a>                       |
| Garden Direct             | P O Box 631, Jersey, JE4 8YE   | (01534) 876494  | <a href="http://www.gardendirect.co.uk">www.gardendirect.co.uk</a>       |
| Jeyes Groups Ltd          | Jeyes House, Brunel Way, Thetford, IP24 1HF                                  | (01842) 757575  | <a href="http://www.jeyes.com">www.jeyes.com</a>                         |
| Just Green Ltd            | Unit 14 Springfield Road Industrial Estate, Burnham-on-Crouch, Essex CM0 8UA | (01621) 785088  | Available from<br><a href="http://www.amazon.co.uk">www.amazon.co.uk</a> |
| Scotts Company (UK) Ltd   | Salisbury House, Weyside Park, Catteshall Lane, Godalming, Surrey GU7 1XE    | (01483) 410334  | <a href="http://www.lovethegarden.com">www.lovethegarden.com</a>         |
| Vitax Ltd                 | Owen Street, Coalville, Leicestershire LE67 3DE                              | (01530) 510060  | <a href="http://www.vitax.co.uk">www.vitax.co.uk</a>                     |
| Westland Horticulture Ltd | Alconbury Hill, Huntingdon, Cambridgeshire PE28 4HY                          | (01480) 443789  | <a href="http://www.gardenhealth.com">www.gardenhealth.com</a>           |

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