

Roundup[®] ProActive



H - Herbicide

environmentalscience.bayer.co.uk



Improved performance



360 g/L glyphosate



Rainfast from 1 hour



*Superior performance
in challenging conditions*

A1c - MON30153973A

A foliar applied translocated herbicide for the control of annual and perennial grass and broad-leaved weeds before sowing or planting of all crops.

For the control of emerged weeds in grassland, orchards, industrial and amenity situations, in forestry and in aquatic areas.

Degraded by micro-organisms/ microbes in the soil.

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

This product contains a soluble concentrate containing 360 g/l glyphosate, present as 441 g/l (35% ww) of the potassium salt of glyphosate.

MAPP Number 17380

PROTECT FROM FROST

MONSANTO (UK) LIMITED

230 Cambridge Science Park, Milton Road,
Cambridge, CB4 0WB, UK.
Telephone: 00 800 1214 9451;
environmentalscience.bayer.co.uk

GROUP 9 HERBICIDES

UFI: FN12-7076-K00Q-0UV6

Lot number/production
date: see back

e1 Litre



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For 24-hour emergency information contact Bayer
CropScience Ltd.
Tel: 00800 1020 3333



ROUNDUP PROACTIVE

Contains 360 g/l glyphosate, present as 441 g/l (35% ww) of the **potassium salt of glyphosate**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Keep only in original container.

Store away from food, drink and animal feedingstuffs.

Dispose of contents/container in accordance with local regulation.

To avoid risks to human health and the environment, comply with the instructions for use

IMPORTANT INFORMATION

FOR PROFESSIONAL USE ONLY AS AN AGRICULTURAL / HORTICULTURAL / INDUSTRIAL / FORESTRY / AQUATIC HERBICIDE

Crops/situations:

All edible and non-edible crops (destruction, before sowing/planting). Grassland. Apples, pears; plums, cherries, damsons. Natural surfaces not intended to bear vegetation; permeable surfaces overlaying soil; hard surfaces. Enclosed waters, open waters, land immediately adjacent to aquatic areas. Forest, forest nursery (weed control, stump application and chemical thinning). Amenity vegetation.

Maximum individual dose:

Full details are given in the Statutory Area

Maximum number of treatments:

on the attached leaflet

Latest time of application:

(Crop Specific Information – marked #)

Other specific restrictions:

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

SAFETY PRECAUTIONS

Operator protection

* *Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:*

* **WEAR SUITABLE PROTECTIVE GLOVES** when handling the concentrate and when handling contaminated surfaces.

* **WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND RUBBER BOOTS** when using hand-held sprayers, hand-held rotary atomisers, weed wiper equipment, spot gun equipment or when making cut stump treatments **OR WHEN USING STEM INJECTION EQUIPMENT.**

* However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WASH HANDS AND EXPOSED SKIN before eating and drinking and after work.

Environmental protection

Do not contaminate water with the product or its container except when used as directed. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads. Recommendations apply to the use of this herbicide for the control of weeds growing in or by water and must be read in conjunction with the Official Code of Practice entitled « Guidelines for the Use of Herbicides on Weeds in or near Watercourses and Lakes » obtainable from Department of Environment and Rural Affairs (DEFRA publications 08459 556000), Scottish Executive, Environment and Rural Affairs Department, Department of Agriculture and Rural Development for Northern Ireland and the National Assembly for Wales Agriculture Department. The Water Act, 1989. The Water Resources Act 1991, the Control of Pollution Act 1974, The Northern Ireland Water Resources Act 1992 and the Control of Pollution and Local Government (Northern Ireland) Order 1978, may apply to the act of applying Roundup ProActive for the control of weeds growing in or by reservoirs and water courses, e.g. rivers, streams, ditches, drains and ponds/lakes discharging into such water courses.

Storage and disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS. KEEP OUT OF REACH OF CHILDREN. KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place. **RINSE CONTAINER THOROUGHLY** by using an integrated pressure-rinsing device or manually rinse three times. Add washings to spray at time of filling and dispose of safely. Triple rinsed containers may be disposed of as non-hazardous waste.

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IMPORTANT INFORMATION
FOR PROFESSIONAL USE ONLY AS AN AGRICULTURAL / HORTICULTURAL / INDUSTRIAL / FORESTRY / AQUATIC HERBICIDE
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Maximum individual dose: Full details are given in the Statutory Area
Maximum number of treatments: on the attached leaflet
Latest time of application: (Crop Specific Information – marked #)
Other specific restrictions:
READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

SAFETY PRECAUTIONS
Operator protection
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WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate and when handling contaminated surfaces
WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND RUBBER BOOTS when using hand-held sprayers, hand-held rotary atomisers, weed wiper equipment, spot gun equipment or when making cut stump treatments OR WHEN USING STEM INJECTION EQUIPMENT.
However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.
WASH HANDS AND EXPOSED SKIN before eating and drinking and after work.

Environmental protection
Do not contaminate water with the product or its container except when used as directed. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads. Recommendations apply to the use of this herbicide for the control of weeds growing in or by water and must be read in conjunction with the Official Code of Practice entitled « Guidelines for the Use of Herbicides on Weeds in or Near Watercourses and Lakes » obtainable from Department of Environment and Rural Affairs (DEFRA publications 08459 556000), Scottish Executive, Environment and Rural Affairs Department, Department of Agriculture and Rural Development for Northern Ireland and the National Assembly for Wales Agriculture Department. The Water Act, 1989, The Water Resources Act 1991, the Control of Pollution Act 1974, The Northern Ireland Water Resources Act 1992 and the Control of Pollution and Local Government (Northern Ireland) Order 1978, may apply to the act of applying Roundup ProActive for the control of weeds growing in or by reservoirs and water courses, e.g. rivers, streams, ditches, drains and ponds/lakes discharging into such water courses.
Storage and disposal
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS. KEEP OUT OF REACH OF CHILDREN. KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place. RINSE CONTAINER THOROUGHLY by using an integrated pressure-rinsing device or manually rinse three times. Add washings to sprayer at time of filling and dispose of safely. Triple rinsed containers may be disposed of as non-hazardous waste.

MAPP Number 17380

Atb – MON30154107A

ENCLOSED WATERS, OPEN WATERS, LAND IMMEDIATELY ADJACENT TO AQUATIC AREAS

Table with 5 columns: Target Weeds, Hydraulic Sprayers, Amount of Roundup ProActive, Area Treated, Water Volume. Rows include Emergent weeds (reed, grasses, water cress) and Floating weeds (water-lilies).

Mixing and spraying

Roundup ProActive mixes readily with water and can be applied in spray volumes ranging from 10-400 l/ha using tractor mounted, knapsack, rotary atomisers and hand-held sprayers. Specialised application equipment such as weed wipers, stem injection and spot gun applicators may be used where indicated.

Correctly calibrate all sprayers under field or use conditions prior to application.

a) Tractor mounted and powered hydraulic sprayers

These should be capable of applying accurately 80 - 400 l/ha within a pressure range of 1.5 - 2.5 bars (20 - 35 psi). Half fill the spray tank with clean water, start gentle agitation, and then add the correct amount of Roundup ProActive. Top up the tank with water to the required level. To avoid foaming do not use top tank agitation. Use of a defoamer may be necessary.

Medium Volume application (150 - 300 l/ha)

Avoid high water volumes (>300 l/ha) which may lead to run-off from the treated vegetation, resulting in reduced control. Low drift nozzles such as

air induction and pre-orifice types producing a medium or coarse spray (BCPC definition) should be used to minimise the risk of drift.

Low Volume Application (minimum 80 l/ha)

Low volume application can be achieved by reducing pressure and the appropriate nozzle selection. Low drift nozzles which produce a medium spray quality (BCPC definition) should be used to minimise the risk of drift.

b) Knapsack Sprayers

Recommended delivery range is 80 - 250 l/ha. Half fill the spray tank with clean water, add the correct amount of Roundup ProActive and top up with water. Fill according to best practice as given on the CPA's Voluntary Initiative website (www.vouuntaryinitiative.org.uk)

When used at a walking speed of 1 metre/second to apply a swath of 1 metre width, most knapsack sprayers fitted with a Hypro AN 1.2 or similar nozzle deliver approximately 200 l/ha spray volume (or 10 l per 500 m²). To apply 3.0 l/ha of Roundup ProActive, therefore, use a 1.5% solution, i.e. 150 ml Roundup ProActive made up to 10 litres. Similarly, knapsack sprayers fitted with low volume nozzles such as Hypro DT 1.5 typically deliver approximately 100 l/ha spray volume. To apply 3.0 l/ha Roundup ProActive in this case use 3.0% solution.

c) Rotary Atomisers

Roundup ProActive may be applied neat through specialised ULV applicators which have drift reducing systems or at a spray volume of 10-40 l/ha through conventional rotary atomisers.

Hand-held machines can be used to apply a spray volume of 10-40 l/ha, e.g. Herbi and Herbaflax. Tractor-mounted rotary atomiser boom sprayers are suitable for use in forest situations to apply a spray volume of 10-40 l/ha.

When rotary atomisers are used to apply Roundup ProActive ensure that the droplet diameter falls within the range 200-300 microns for all uses.

Stir the correct amount of Roundup ProActive to control the particular target species into the sprayer bottle half filled with clean water. Top up with water, close the top and shake gently to ensure good mixing

d) Weed Wipers

For ropewick applicators use a concentration of 1 part Roundup ProActive to 2 parts of water and add a water-soluble dye if required. Care should be taken to avoid dripping onto wanted vegetation.

For new generation weed wipers, use 1part Roundup ProActive to 10 or 20 parts of water or as directed by manufacturer's instructions. A list of machines is included in the Company Advisory section at the end of this label.

e) Cut Stump Applicators

For cut stump treatment an Enso attachment to rotary saws may be used. This technique is specific to scrub clearance in Forestry. A suitable water soluble dye may be used.

f) Stem injection

Use a hatchet to cut one notch in trees up to 10cm diameter and two to three notches in trees above 10cm diameter. Use 2 ml of undiluted Roundup ProActive per notch. Specialist stem injection equipment can be used to inject 2 mls Roundup ProActive into hollow stems such as Japanese Knotweed and Giant Hogweed.

g) Spot Gun Applicators

Spot gun applicators are for the treatment of individual weeds.

Table with 5 columns: Spot Diameter (metres), Amount of Roundup ProActive (ml) per 5 litres spray solution, 3.0 l/ha, 4.0 l/ha, 5.0 l/ha, 10.0 l/ha. Rows show application rates for 0.3m and 0.6m spot diameters.

When used in paddocks keep livestock out of treated area until treated Ragwort or other poisonous weeds have either been removed or died down completely.

Boat mounted sprayers

For use in aquatic situations. Prepare sprayer as for knapsack sprayers (Section b above). Calibrate and spray at the lowest speed possible. Always apply against the direction of any current.

Compatibility

Roundup ProActive is physically compatible with some other pesticides. For up to date information on compatible products contact Monsanto UK Limited (Telephone: 00 800 1214 9451). Roundup ProActive is compatible with Mixture B NF (ADJ 0570). Where conventional hydraulic sprayers are being used Mixture B NF may be added to the spray tank solution, at a rate of 2% of the final water volume, for all pre-plant and post-plant directed sprays only.

DO NOT APPLY WITH MIXTURE B NF TO EDIBLE CROPS, GRASSLAND OR AQUATIC WEEDS.

Do not tank-mix Roundup ProActive when using rotary atomiser sprayers. N.B. Maintain continuous agitation when using Roundup ProActive in a tank-mixture.

For knapsack sprayers: mix thoroughly and use immediately when using Roundup ProActive in tank mixture. Always consult manufacturers' recommendations before use.

COMPANY ADVISORY INFORMATION

This section is not part of the Product Label under the Plant Protection Products Regulations 1995 and provides additional advice on the product.

General Information

Roundup ProActive herbicide is an advanced formulation containing glyphosate. Roundup ProActive is taken up by foliage and translocated to underground roots, rhizomes and stolons, providing control of both annual and perennial grasses and broad-leaved weeds. Roundup ProActive is rapidly adsorbed onto particulate matter in soils and water and is quickly degraded by the micro-organisms present in soil and aquatic bottom sediments. Until degraded, the active ingredient in Roundup ProActive, glyphosate, is practically immobile in soils and is, therefore, unlikely to contaminate groundwater.

Roundup ProActive is a glyphosate formulation which, having no hazard classification, offers a high standard of operator safety. To maximise the intrinsic safety of Roundup ProActive to operator, consumer and environment, the label recommendations and the DEFRA/HSC/NAW publication «Code of Practice for Using Plant Protection Products» of January 2006, should be adhered to.

Symptoms on the weeds

Symptoms of treatment are generally first seen 7-14 days, or longer, if growth is slow after spraying. Leaf symptoms take the form of a reddening then yellowing of the foliage and are first seen on the grass weeds but take longer to appear on broad-leaved weeds. Reaction of nettle is slow. IMPORTANT: To obtain optimum weed control, weeds must be left undisturbed with no further treatment or cultivation for 7 days after application. Allow 2-3 weeks for symptoms to develop then re-treat any unaffected plants using spot treatments.

A covering of dew may reduce efficacy where run-off occurs. For aquatic weed control, on reeds and grasses leaf symptoms usually appear within 14-21 days of spraying in the early autumn. Complete foliage desiccation usually occurs 30-40 days after spraying. At this stage the reeds can be cut and removed. During cold conditions leaf symptoms may not appear before natural dieback but no growth will occur in the season following spraying.

Effects of weather

See Directions for Use (Restrictions). Roundup ProActive will remain efficacious at low but not freezing temperatures however the onset of symptoms will be delayed. A covering of dew may reduce efficacy where run-off occurs. Reduced control is likely where weed growth is impaired by natural senescence, drought, high temperature, a covering of dust, flooding or severe/prolonged frost at, or immediately after application.

Weed resistance strategy

Glyphosate, the active ingredient in Roundup ProActive is a Group H herbicide based on the mode of action classification system of the Herbicide Resistance Action Committee. Under Best Practice there is a low risk for the development of weed resistance to Roundup ProActive. There are no known cases of weed resistance to glyphosate in UK.

Strains of some annual weeds have developed resistance to glyphosate in some parts of the world leading to poor control. A strategy for preventing and managing such resistance should be adopted. This should include integrating herbicides with a programme of cultural control measures and/or active ingredients with a different mode of action.

Users are encouraged to implement a weed resistance strategy based on (a) Good Agricultural Practices and (b) Good Plant Protection Practices by:

- Following label recommendations on rates and timing.
The adoption of Integrated Weed Management practices.
Minimising the risk of spreading weed infestations.
The implementation of good spraying practice to maintain effective weed control.
Using the correct nozzles to maximise coverage.
Application only under appropriate weather conditions.

Monitoring performance and reporting any unexpected results to Monsanto UK Ltd (Telephone: 00 800 1214 9451).

General Cautions

Take extreme care to avoid drift, particularly when using near or alongside hedgerows. The use of low drift nozzles such as 'air induction' and 'pre-orifice' nozzles are recommended.

New generation weedwipers Logic Contact 2000, Carrier Rollmaster, Allman Ecowipe, Rotowiper (UK) Ltd, C-Dax™ Eliminator, Weedswiper™

Disposal

Follow the guidance on the disposal of surplus spray solution, tank washings, concentrate and containers as given in Section 5 of the DEFRA/HSC/NAW publication «Code of Practice for Using Plant Protection Products» of January 2006

Sprayer hygiene

It is essential to thoroughly clean-out spray tanks, pumps and pipelines and nozzle or disc assemblies, with a recommended detergent cleaner, between applying this product and other pesticides to avoid contamination from pesticide residues.

Trademark References

Roundup Active® is a Registered Trademark of Monsanto Technology LLC. Monsanto® and the Vine symbol are registered trademarks of Monsanto Technology LLC. All other brand names referred to are trademarks of other manufacturers in which proprietary rights may exist. Monsanto does not warrant that the purchase or use of equipment mentioned in this document will not infringe any patent or trademark registration.

Material Safety Data Sheet

Following the instructions on this Product Label for the specified uses should ensure that the product is used safely and efficaciously for those uses. A full Material Safety Data Sheet is available on request. Download from environmentalscience.bayer.co.uk or Telephone: : 00800 1214 9451.



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Grassland.

Apples, pears; plums, cherries, damsons.

Natural surfaces not intended to bear vegetation; permeable surfaces overlaying soil; hard surfaces.

Enclosed waters, open waters, land immediately adjacent to aquatic areas.

Forest, forest nursery (weed control, stump application and chemical thinning).

Amenity vegetation.

Maximum individual dose:

Maximum number of treatments:

Latest time of application:

Other specific restrictions:

Full details are given in the Statutory Area on the attached leaflet (Crop Specific Information – marked #)

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4 x 5 Litres



Atc – MON30154108A

