



BRONCO

A foliar applied translocated herbicide for the control of emerged weeds in industrial and amenity situations, in forestry and on hard surfaces.

GROUP 9 HERBICIDES

UFI: J9X1-G09Q-N00E-6J4P

Degraded by micro-organisms/ microbes in the soil.

A soluble concentrate containing 360 g/l glyphosate, present as 41,6% w/w of the isopropylamine salt of glyphosate.

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

Contents e XX

MAPP Number 20841

This product must be sold and used only in England, Scotland and Wales.

PROTECT FROM FROST

Batch/lot number:

BRONCO

Contains 360 g/l glyphosate, present as 41,6% w/w of the isopropylamine salt of glyphosate.

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

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

IMPORTANT INFORMATION

FOR PROFESSIONAL USE ONLY AS AN INDUSTRIAL / AMENITY/ FORESTRY HERBICIDE

Crops/situations:

Natural surfaces not intended to bear vegetation, permeable surfaces overlying soil, hard surfaces;
Amenity vegetation;
Forest nursery, forest

Maximum individual dose: }

Maximum number of treatments: } Full details are given in the Statutory Area on

Latest time of application: } the attached leaflet

Other specific restrictions: } (Crop Specific Information – marked #)

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.

BOOKLET AND BASE LABEL



BRONCO

A soluble concentrate containing 360 g/l glyphosate, present as 41,6% w/w of the isopropylamine salt of glyphosate.

Bayer CropScience Ltd

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01223 226500; <https://cropscience.bayer.co.uk/our-products/amenity>

For 24-hour emergency information contact Bayer CropScience

Ltd. Tel: 00800 1020 3333

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BRONCO

A soluble concentrate containing 360 g/l glyphosate, present as 41,6% w/w of the **isopropylamine salt of glyphosate**.

Keep only in original container.

Dispose of contents/container in accordance with local regulation.

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

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 GLOVES AND RUBBER BOOTS when applying by hand-held controlled droplet application (CDA) equipment,*

**WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND RUBBER BOOTS when applying by hand-held weed wiper.*

** 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.

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.

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

Warnings

EXTREME CARE SHOULD BE TAKEN TO AVOID SPRAY DRIFT AS THIS CAN SEVERELY DAMAGE NONTARGET PLANTS.

DO NOT MIX, STORE OR APPLY BRONCO IN GALVANISED OR UNLINED STEEL CONTAINERS OR SPRAY TANKS.

DO NOT leave spray mixtures in tank for long periods and make sure tanks are WELL VENTED.

Restrictions

A period without rain of at least 6 hours and preferably 24 hours must follow application of BRONCO.

Do not spray onto weeds which are naturally senescent, or where growth is impaired by drought, high temperatures, a covering of dust, flooding or frost at, or immediately after application, otherwise poor control may result.

Do not spray in windy conditions as drift onto desired crops or vegetation can severely damage or destroy them.

After application, large concentrations of decaying foliage, stolons, roots or rhizomes should be dispersed or buried by thorough cultivation before crop drilling.

Applications of lime, fertiliser, farmyard manure and pesticides should be delayed until 5 days after application of BRONCO.

Weeds controlled

BRONCO is a foliar acting herbicide which controls annual and perennial grasses and most broad-leaved weeds when used as directed. It is important that all weeds are at the correct growth stage when treated, otherwise some re-growth may occur, and this will need re-treatment.

Apply BRONCO herbicide once grasses and broad-leaved weeds have emerged and they have ACTIVELY GROWING green leaves.

- PERENNIAL GRASSES must have full emergence of healthy, green leaf. (Common Couch, for example, becomes susceptible at the onset of tillering and new rhizome growth, which usually occurs when plants have 4-5 leaves, each with 10-15 cm of new growth).
- PERENNIAL BROAD-LEAVED WEEDS are most susceptible around the flowering stage.
- ANNUAL GRASSES AND BROAD-LEAVED WEEDS should have at least 5 cm of leaf, or 2 expanded true leaves, respectively.

- OTHER SPECIES - recommendations for specific Areas of Use are given in the Recommendation Tables.
- This product will not give an acceptable level of control of Horsetails (*Equisetum arvense*)-repeat treatment will be necessary.

Following crops

Upon soil adsorption the herbicidal properties of BRONCO are lost permitting the drilling of crops 48 hours after application. Planting of trees, shrubs etc may take place 7 days after application. Grass seed may be sown from 5 days after treatment.

Crop specific information

COMPLIANCE WITH THE FOLLOWING CONDITIONS OF USE AND ALL SAFETY PRECAUTIONS MARKED* IS A LEGAL REQUIREMENT	
Crops/situations:	Maximum individual dose (litres of product per hectare):
Natural surfaces not intended to bear vegetation, permeable surfaces overlaying soil, hard surfaces	5.0
Amenity Vegetation	5.0
Forestry, forest nursery:	5.0
<p>Other Specific Restrictions: The maximum individual dose must not exceed 22.5g/l glyphosate for hydraulic knapsack sprayers. When applying through rotary atomisers the spray droplet spectra produced must be of a minimum Volume Median Diameter (VMD) of 200 microns. Weed wipers may be used in any recommended crop where the wiper or chemical does not touch the growing crop.</p> <p style="margin-left: 40px;">Weed wiper Mini 1:2 dilution with water Other Wipers 1:1 dilution with water</p> <p>Refer to weed wiper guidance under 'Mixing & Spraying' section.</p>	
<p>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.</p>	

RECOMMENDATION TABLES

AREA OF USE	CROP/ SITUATION	TARGET WEEDS/ USAGE	WEED INFESTATION	APPLICATION RATE l/ha	WATER VOLUME	APPLICATION TIMING AND GUIDANCE
NATURAL SURFACES NOT INTENDED TO BEAR VEGETATION, PERMEABLE SURFACES OVERLYING SOIL, ALL SITUATIONS (DESTRUCTION, BEFORE PLANTING).	Including roadsides, paths, and along fences & total weed control on industrial sites	Vegetation management	Annual weeds	1.5	Hydraulic sprayers: 80-250 l/ha or Rotary atomisers* water volumes 40 l/ha or hand-held equipment. See Mixing & Spraying section.	Use areas include: Cleaning up weedy ground prior to planting or sowing and as a directed spray in ornamental plantings. Hydraulic sprayers, rotary atomisers or weed wipers may be used. DO NOT USE IN OR ALONGSIDE HEDGEROWS. DO NOT USE UNDER POLYTHENE OR GLASS
			Perennial grasses and broad-leaved weeds	4.0 – 5.0		
Hard surfaces (excluding railway ballast)	including roadsides, paths, concrete and alongside walls	Vegetation management	Annual weeds	1.5	Hydraulic sprayers: 80-250 l/ha or Rotary atomisers* water volumes 40 l/ha or hand-held equipment. See Mixing & Spraying section.	Apply this product carefully. Ensure spraying takes place only when weeds are actively growing (normally March to October) and is confined only to visible weeds including those in the 30cm swath covering the kerb edge and road gulley – do not overspray drains
			Perennial grasses and broad-leaved weeds	4.0 – 5.0		
AMENITY VEGETATION	Areas of semi-natural or ornamental vegetation including trees. Areas of bare soil around ornamental plants or areas intended for ornamental planting or clearance of allotments	Vegetation management	Annual weeds	1.5	80 – 400 l/ha*	Hydraulic sprayers, rotary atomisers or weed wipers may be used. DO NOT USE IN OR ALONGSIDE HEDGEROWS. DO NOT USE UNDER POLYTHENE OR GLASS
			Perennial grasses and broad-leaved weeds	4.0 – 5.0		

* Rotary atomisers may be used at a water volume of 40 l/ha. Ensure droplet diameter falls within the range 200-300 microns.

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Bronco can be used for site preparation and for weed control in planted out trees.

AREA OF USE	TARGET WEEDS/ USAGE	WEED INFESTATION	APPLICATION RATE l/ha	WATER VOLUME	APPLICATION TIMING AND GUIDANCE
Forestry: - Pre-planting	Arable land, planting, replanting, & grassland areas	Arable weeds	4.0	Hydraulic sprayers: 80- 250 l/ha Or rotary atomisers: 40 l/ha*	All tree species may be planted 7 days or more after treatment. *Where rotary atomisers are used their droplet diameter must fall within the range 200-300 µm.
		Grassland weeds	5.0		
Forestry: - Post-planting (directed) in conifers & broad-leaved trees	Clean-up around trees with knapsack applications.	Annual/perennial grasses and broad-leaves	4.0	Knapsack: 200-250 l/ha Or Weed wiper mini: apply as a concentratio n of 1 part Bronco to 2 parts water (see Mixing & Spraying section)	It is ESSENTIAL to use a TREE GUARD for all applications made in the growing season. Treat bracken after frond tips are unfurled but before senescence. Treat heather late August to end September. All other woody weeds are treated June-August, before leaf senescence (but after new growth of crop has hardened).

Mixing and spraying

Bronco mixes readily with water and can be applied in spray volumes ranging from 80-400 l/ha using tractor mounted, knapsack, rotary atomisers and hand-held sprayers. Specialised application equipment such as weed wipers, 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 BRONCO. 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.

All applications using hydraulic sprayers (including knapsack sprayers) to be as 'MEDIUM' or 'COARSE' spray quality (BCPC definition).

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 - 300 l/ha. Half fill the spray tank with clean water, add the correct amount of BRONCO and top up with water.

When used at a walking speed of 1 m/sec to apply a swath of 1 m width, most knapsack sprayers fitted with a Hypro AN 0.6-AN2.4 or similar nozzle deliver approximately 200 l/ha spray volume (or 10 l per 500 m²). To apply 5.0 l/ha of BRONCO, therefore, use 50ml of product for each 2 litres of spray liquid required. Similarly, knapsack sprayers fitted with low volume nozzles such as - D/0.23/1-D/0.68/1 typically deliver approximately 100 l/ha spray volume.

To apply 5.0 l/ha BRONCO in this case, use 100ml of product for each 2 litres of spray liquid required.

c) Rotary Atomisers

Tractor-mounted boom sprayers and hand-held machines are suitable for use in some situations to apply a minimum spray volume of 40 l/ha. When rotary atomisers are used to apply BRONCO ensure that the droplet diameter falls within the range 200-300 microns for all uses.

Stir the correct amount of BRONCO 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.

Do not tank mix BRONCO when using rotary atomiser sprayers.

d) Weed Wipers

For ropewick applicators use a concentration of 1 part BRONCO 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 1 part BRONCO to 10 or 20 parts of water or as directed by manufacturer's instructions or as directed by manufacturer's instructions.

e) Spot Gun Applicators

Spot gun applicators are for the treatment of individual weeds. Apply 5 ml of spray to target weed, using a narrow cone TG-3 or TG-5 nozzle.

Spot Diameter (metres)	Amount of BRONCO (ml) per 5 litres spray solution for targeted dosages of:		
	3.0 l/ha	4.0 l/ha	5.0 l/ha
0.3	20	28	35
0.6	85	110	140

Compatibility

For knapsack sprayers: mix thoroughly and use immediately when using BRONCO in tank mixture.

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

BRONCO herbicide is a foliar-acting herbicide with broad-spectrum activity. It 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. BRONCO 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. Upon adsorption, the herbicidal properties of BRONCO are lost, permitting drilling of crops within 48 hours of application. When used as directed, any water subjected to BRONCO spray drift may be used immediately for irrigation purposes.

Until degraded, the active ingredient in BRONCO, glyphosate, is practically immobile in soils and is, therefore, unlikely to contaminate groundwater.

To maximise the safe use of BRONCO 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 7-10 days, or longer (if growth is slow), after spraying. These take the form of leaf reddening followed by yellowing and are usually quicker to appear on grasses than on broad-leaved weeds. Reaction of nettles is slow.

Effects of weather

See Directions for Use (Restrictions).

BRONCO 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

There is low risk for the development of weed resistance to BRONCO. There are no known cases of weed resistance to glyphosate in UK.

Strains of some annual weeds (e.g., Black-grass, Wild Oats and Italian Ryegrass) have developed resistance to some herbicides which may lead 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. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the HGCA, CPA, your distributor, crop adviser or product manufacturer.

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

- Following label recommendations
- The adoption of complimentary weed control 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 Bayer CropScience Ltd. (Telephone: 01223 226500)

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.

After application, large concentrations of decaying foliage, stolons, roots or rhizomes should be dispersed or buried by thorough cultivation before crop drilling. New Generation Weed Wipers

New generation weedwipers (NB this list is not exhaustive)

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

Sprayer Maintenance

Ensure the sprayer is in good working order and replace damaged, worn or malfunctioning parts before use. Carry out maintenance according to the instructions of the sprayer manufacturer.

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. Traces of BRONCO left in the equipment may seriously damage or destroy crops sprayed later.

Calibration

All sprayers should always be calibrated before use. This is essential when nozzles are changed or if a different dose of product is to be applied.

Unused Spray Mixture

Once BRONCO has been diluted in the spray tank, it should be used as soon as possible. However, if unexpected delays occur the diluted spray can be safely stored. Agitate well before use. Storage for longer than 3 days may result in reduced efficacy.

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

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 Material Safety Data Sheet is available on request. Download from <https://cropscience.bayer.co.uk/our-products/amenity> or Telephone: 01223 226500